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ABSTRACT

Listings of the National Science Foundation's grants and awards for 1972 are organized by topic areas. Within each topic area the entries are listed by state geographical locations. Each entry contains the name(s) of the person(s) conducting the research, the institution at which the research was conducted and the amount of the grant received. (JP)

National Science Foundation Grants and Awards 1972

NSF 73-2

U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

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National Science Foundation

Grants and Awards for Fiscal Year 1972

The yearly review of the Foundation's activities appears in a separate volume entitled "Twenty-Second Annual Report of the National Science Foundation, Fiscal Year 1972," NSF 73-1.

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GRANTS AND AWARDS

SCIENTIFIC RESEARCH PROJECT SUPPORT

NON-CLASSIFIED

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (16AWDS); \$12,581

MARYLAND

NONE; OTHER PROGRAM AWARDS (02AWDS); \$522

VIRGINIA

NONE; OTHER PROGRAM AWARDS (01AWDS); \$18,000

BIOLOGY

CELLULAR BIOLOGY

ALABAMA

TUSKEGEE INSTITUTE

WILLIAMS, JOHN W.; COSIP D RESEARCH INITIATION - IN SITU HYBRIDIZATION STUDIES ON THE NATURE OF DNA SEQUENCES IN LATERAL LOOP AXES OF LAMPBRUSH CHROMOSOMES (Y010451); 24 MONTHS \$29,000

ARIZONA

ARIZONA STATE UNIVERSITY

CHURCH, KATHLEEN K.; CHIASMA FORMATION DURING SPERMATOGENESIS AND OOGENESIS (B030689); 24 MONTHS \$20,100

UNIVERSITY OF ARIZONA

BERNSTEIN, HARRIS; GENETIC STUDIES WITH PHAGE T4 (B00746001); 24 MONTHS \$52,000

BERMUDA

BERMUDA BIOLOGICAL STATION FOR RESEARCH INC

STERRER, WOLFGANG E.; SHORT SUMMER PROJECTS IN MARINE BIOLOGY, EMBRYOLOGY, AND PHYSIOLOGY (B034111); 12 MONTHS \$6,900

CALIFORNIA

LIEB, MARGARET; OTHER PROGRAM AWARDS (01AWDS); 12 MONTHS \$41,820

CALIFORNIA INSTITUTE OF TECHNOLOGY

MITCHELL, HERSCHEL K.; REGULATION OF DEVELOPMENT IN DROSOPHILA (B023343 001); 24 MONTHS \$50,000

LEWIS, EDWARD B.; OPERATIONAL SUPPORT FOR A COLLECTION OF MUTANT TYPES OF DROSOPHILA MELANOGASTER (B027418 001); 12 MONTHS \$41,300

HOOD, LEROY E.; THE GENETIC CONTROL OF ANTIBODY DIVERSITY AND EVOLUTION (B027405 001); 12 MONTHS \$56,000

BROKAW, CHARLES J.; COMPUTER SIMULATION OF FLAGELLAR MOVEMENT (B032043); 24 MONTHS \$46,000

DAVIDSON, ERIC H. AND BRITTEN, ROY J.; GENE REGULATION IN DEVELOPMENT AND THE EVOLUTION OF GENOMIC REGULATORY SYSTEMS (B033441 X00); 12 MONTHS \$20,000

HOOD, LEROY E.; NONHISTONE CHROMOSOMAL PROTEINS AND GENE ACTIVATION IN EUKARYOTES (B033160); 24 MONTHS \$76,500

CALIFORNIA STATE COLLEGE AT SAN BERNARDINO

SOKOLOFF, ALEXANDER; MAINTENANCE OF THE TRIBOLIUM STOCK CENTER (B052176 X00); 12 MONTHS \$20,000

SOKOLOFF, ALEXANDER; MAINTENANCE OF THE TRIBOLIUM STOCK CENTER (B030474 X01); 12 MONTHS \$21,000

CALIFORNIA STATE UNIVERSITY, HUMBOLDT

BARRATT, RAYMOND W.; OPERATION OF A GENETIC STOCK CENTER FOR NEUROSPORA AND ASPERGILLUS (B030487); 12 MONTHS \$40,900

SALK INSTITUTE FOR BIOLOGICAL STUDIES

BOURGOIS-COHN, SUZANNE; IN VITRO STUDY OF REGULATION (B022559 X01); 12 MONTHS \$72,700

HORIBATA, KENGO; TUMORS EXPRESSING DIFFERENTIATED FUNCTION IN CULTURE (B031311); 24 MONTHS \$35,000

SCHUBERT, DAVID R.; PURCHASE OF ELECTRON MICROSCOPE (B034154); 12 MONTHS \$16,000

NICOLSON, GARTH L. AND HYMAN, ROBERT; TOPOLOGICAL STUDIES OF THE SURFACE OF NORMAL AND TRANSFORMED CELLS (B034178); 24 MONTHS \$60,800

SCRIPPS CLINIC AND RESEARCH FOUNDATION

LENER, RICHARD A.; MOLECULAR STRUCTURE OF THE IMMUNOGLOBULIN RECEPTOR IN CONTINUOUS CULTURES OF DIPLIROID HUMAN LYMPHOCYTES (B034296); 24 MONTHS \$85,000

STANFORD UNIVERSITY

YANOFSKY, CHARLES; GENETIC AND BIOCHEMICAL STUDIES OF THE TRYPTOPHAN OPERON (B004790 X04); 12 MONTHS \$75,400

HEPLER, PETER K.; CONTROL OF SPINDLE ORGANIZATION IN DIVIDING PLANT CELLS (B035151 002); 24 MONTHS \$90,000

GREEN, PAUL B.; BIOPHYSICS OF PLANT GROWTH REGULATION (B033687 001); 24 MONTHS \$90,000

FRANKLIN, NAOMI C.; TRANSCRIPTION REGULATION AT THE 'TRP' OPERON OF ESCHERICHIA COLI AND THE 'N' OPERON OF BACTERIOPHAGE LAMBDA (B029093 X01); 12 MONTHS \$31,000

WESSELLS, NORMAN K.; STUDIES IN MORPHOGENESIS AND CELL DIFFERENTIATION (B031935); 12 MONTHS \$27,500

BERG, PAUL; PURCHASE OF A HIGH RESOLUTION ELECTRON MICROSCOPE (B031182*); 12 MONTHS \$5,600

BERG, PAUL; CONFERENCE ON TRANSCRIPTIONAL AND TRANSLATIONAL MECHANISMS ON EUKARYOTIC CELLS (B034111); 12 MONTHS \$20,000

UNIVERSITY OF CALIFORNIA, BERKELEY

LAETSCH, W M.; REGULATION OF CHLOROPLAST DEVELOPMENT IN CULTURED PLANT TISSUE (B014984 001); 24 MONTHS \$47,200

STERN, CURT; DEVELOPMENTAL GENETICS OF DROSOPHILA (B033024 001); 12 MONTHS \$31,000

JONES, RUSSELL L.; STUDIES ON GIBBERELIC ACID-INDUCED ENZYME PRODUCTION FROM BARLEY ALBURONE LAYERS (B027168 001); \$11,000

FOGEL, SEYMOUR, AND MORTIMER, ROBERT K.; MAINTENANCE OF A YEAST GENETICS STOCK CENTER (B028955 001); 12 MONTHS \$20,000

BRANTON, DANIEL; GAS VESICLE DEVELOPMENT AND CONTROL (B032041); 24 MONTHS \$40,200

BRANTON, DANIEL, AND WOFSEY, LEON; MEMBRANE ORGANIZATION AND REORGANIZATION-LYMPHOCYTE ANTIGEN RECEPTORS IN THE IMMUNE RESPONSE (B034283); 12 MONTHS \$47,600

UNIVERSITY OF CALIFORNIA, DAVIS

ALLARD, ROBERT W.; ENZYME POLYMORPHISMS IN PLANT POPULATIONS (B013212 001); 24 MONTHS \$60,000

EDLIN, GORDON J.; NUCLEOTIDE POOLS AND NUCLEIC ACID SYNTHESIS (B013528 002); 24 MONTHS \$56,500

LAIDLAW, HARRY H.; MAINTENANCE OF A BEE GENETIC STOCK CENTER (B027655 001); 12 MONTHS \$20,300

GOTTLIEB, LESLIE D.; GENETIC DIFFERENTIATION AND PLANT SPECIATION (B029484 X01); 12 MONTHS \$15,400

ARMSTRONG, PETER B; CELLULAR BASIS OF MORPHOGENESIS (B040731); 24 MONTHS \$18,900
 ABBOTT, URSULA K; TISSUE INTERACTIONS DURING NORMAL AND ABNORMAL MORPHOGENESIS (B031879); 24 MONTHS \$48,200
 BOYD, JAMES B; NONHISTONE CHROMOSOMAL PROTEINS AND GENE ACTIVATION IN EUKARYOTES (B034139); 24 MONTHS \$23,500

UNIVERSITY OF CALIFORNIA, IRVINE

TEWARI, KRISHNA; BIOGENESIS OF CELL ORGANELLES- STUDIES ON CHLOROPLASTS (B020874 001); 24 MONTHS \$60,000
 TESSMAN, IRWIN; REPLICATION, RECOMBINATION AND MUTATION OF DNA (B02009 001); 6 MONTHS \$22,300
 WULFF, DANIEL L; BACTERIAL GENES AFFECTING PHAGE LAMBDA DEVELOPMENT (B022191); 24 MONTHS \$48,700

UNIVERSITY OF CALIFORNIA, LOS ANGELES

EISERLING, FREDERICK A; GENETIC CONTROL OF VIRUS STRUCTURE (B01117 002); 24 MONTHS \$76,000
 MARTINEZ, RAFAEL J; STUDIES ON BACTERIAL FLAGELLA (B013244 001); 24 MONTHS \$56,000
 FRANKER, COLIN K; INITIATION OF NUCLEAR DNA SYNTHESIS (B02179 X01); 12 MONTHS \$10,000

UNIVERSITY OF CALIFORNIA, RIVERSIDE

THOMSON, WILLIAM W; STRUCTURE, DEVELOPMENT, AND FUNCTION OF SALT GLANDS (B008199 001); 24 MONTHS \$20,600
 LEWIS, LOWELL N; HORMONAL CONTROL OF CELLULOSE IN CELL DEVELOPMENT AND SENSENCE (B017850 001); 24 MONTHS \$35,000
 BARTNICKI GARCIA, SALOMON; BIOCHEMISTRY OF CELL WALL DIFFERENTIATION IN PHYTOPHTHORA (B021165); 24 MONTHS \$69,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

SIMON, MELVIN I; BIOSYNTHESIS AND REGULATION OF FLAGELLA (B013455 001); 24 MONTHS \$74,000
 SATO, GORDON H; SELECTION OF HAPLOID MAMMALIAN CELLS IN TISSUE CULTURE (B013788 001); 24 MONTHS \$90,000
 BRODY, STUART; GENETIC AND BIOCHEMICAL STUDIES OF MORPHOLOGICAL MUTANTS OF NEUROSPORA (B021227 001); 24 MONTHS \$63,000

GEIDUSCHEK, E PETER; CONTROL OF GENE EXPRESSION IN DEVELOPMENT (B027048 001); 24 MONTHS \$76,000

STERN, HERBERT; PROGRAM FOR DEVELOPMENTAL BIOLOGY (B027386 001); 12 MONTHS \$52,600

STERN, HERBERT; REGULATORY MECHANISMS IN MEIOSIS AND MITOSIS (B021542 X02); 12 MONTHS \$100,000

HOWELL, STEPHEN H; CONTROL OF DNA METABOLISM IN CHLAMYDOMONAS (B020277); 24 MONTHS \$51,400

STERN, HERBERT; WORKSHOP ON MOLECULAR TECHNIQUES IN DEVELOPMENTAL BIOLOGY (B021490 X00); 12 MONTHS \$49,500

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

PURVES, WILLIAM K; CONTROL MECHANISMS IN CUCUMBER HYPOCOTYL DEVELOPMENT (B012419 001); 24 MONTHS \$47,000

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

DAVERN, CEDRIC I; THE MECHANICS OF BACTERIAL CHROMOSOME REPLICATION (B021965); 24 MONTHS \$60,900

STANFORD UNIVERSITY-SCHOOL OF MEDICINE

LEDERBERG, JOSHUA; A PROGRAM IN GENETICS AND MOLECULAR BIOLOGY (B008739 001); 6 MONTHS \$9,000

COHEN, STANLEY N; REPLICATION AND TRANSFER OF R-FACTORS (B030581); 24 MONTHS \$45,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

EPEL, DAVID; BIOCHEMISTRY OF FERTILIZATION AND EARLY DEVELOPMENT (B027139 001); 12 MONTHS \$29,100

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO-SCHOOL OF MEDICINE

RUTTER, WILLIAM J; CONTROL OF SYNTHESIS OF CELL-SPECIFIC PROTEINS (B014826 X02); 3 MONTHS \$31,400

UNIVERSITY OF SOUTHERN CALIFORNIA-SCHOOL OF MEDICINE

LIEB, MARGARET; GENE INTERACTION IN BACTERIA AND PHAGE (B014892 001); 24 MONTHS \$45,000

MOSTELLER, R D; REGULATION OF EXPRESSION OF THE TRYPTOPHAN OPSRON OF ESCHERICHIA COLI- SIMULTANEOUS AND SEQUENTIAL DEREPRESSION (B022478 X01); 12 MONTHS \$25,000

CANADA

UNIVERSITY OF CALGARY

SANDERSON, KENNETH E; MAINTENANCE OF A SALMONELLA GENETIC STOCK CENTRE (B020484 001); 24 MONTHS \$12,000

COLORADO

COLORADO STATE UNIVERSITY

TSUCHIYA, T; MAINTENANCE OF A BARLEY GENETIC STOCK CENTER (B020482); 24 MONTHS \$40,000

UNIVERSITY OF COLORADO

HAM, RICHARD G; CLONAL ANALYSIS OF DIFFERENTIATED MAMMALIAN CELLS (B018504 001); 6 MONTHS \$17,000

PORTER, KEITH R; HIGH-VOLTAGE ELECTRON MICROSCOPY OF BIOLOGICAL MATERIALS (B027843 001); 4 MONTHS \$5,200

PORTER, KEITH; CONFERENCE ON THE STRUCTURE AND ORGANIZATION OF HUMAN CHROMOSOMES (B021497); 12 MONTHS \$16,300

GOLDSTEIN, LESTER; STUDY OF THE INVOLVEMENT OF PROTEINS AND RNAS IN INTERACTIONS BETWEEN NUCLEUS AND CYTOPLASM (B02009 X00); 12 MONTHS \$35,000

PICKETT-HEAPS, JEREMY D; CELL DIVISION AND MORPHOGENESIS IN ALGAE AND LOWER PLANTS (B021021); 24 MONTHS \$40,000

PRESCOTT, DAVID M; DNA OF THE HYPOTRICHOUS CILIATES (B02222); 24 MONTHS \$60,000

MCCONKEY, EDWIN H; NUCLEOLAR FUNCTIONS- CELL-FREE RIBOSOME SYNTHESIS (B021217); 24 MONTHS \$55,000

CONNECTICUT

WESLEYAN UNIVERSITY

FIRSHEIN, WILLIAM; MACROMOLECULAR BASIS FOR EUKARYOTIC DEVELOPMENT, A COHERENT AREA APPROACH (B024133 X00); 12 MONTHS \$135,000

YALE UNIVERSITY

SUSSEX, IAN M; CHROMOSOMAL POLYTENY AND EMBRYO DEVELOPMENT (B008709 001); 24 MONTHS \$20,000

GAREN, ALAN; GENETIC AND CHEMICAL STUDIES OF CELL DETERMINATION IN DROSOPHILA (B027811 001); 12 MONTHS \$72,000

DOANE, WINIFRED W, AND POULSON, DONALD F; GENETIC REGULATORY MECHANISMS IN CELLULAR DIFFERENTIATION IN DROSOPHILA (B022276 001); 24 MONTHS \$70,000

LENGYEL, PETER; INTERFERON, ANIMAL VIRUSES, AND PROTEIN SYNTHESIS (B030700 X00); 12 MONTHS \$96,000

LENGYEL, PETER; INTERFERON, ANIMAL VIRUSES AND PROTEIN SYNTHESIS (B030700 X01); 12 MONTHS \$92,000

RUDDLE, FRANK H; MOLECULAR APPROACHES TO GENE MAPPING IN MAN (B021400); 24 MONTHS \$75,000

YALE UNIVERSITY-SCHOOL OF MEDICINE

GEHRING, WALTER J; DEVELOPMENTAL GENETICS OF IMAGINAL DISCS IN 'DROSOPHILA' (B017287 X02); 12 MONTHS \$42,900

ADELBERG, EDWARD A, AND BACHMANN, B J; MAINTENANCE OF ESCHERICHIA COLI K12 STOCK CULTURE COLLECTION (B022386 001); 12 MONTHS \$38,400

MARCHESI, VINCENT T; MOLECULAR TOPOGRAPHY OF CELL SURFACE RECEPTORS (B021401); 24 MONTHS \$85,000

DISTRICT OF COLUMBIA

HOWARD UNIVERSITY

DUTTA, S K; COSIP D RESEARCH INITIATION - MITOCHONDRIAL GENE EXPRESSION IN MORPHOLOGICAL MUTANTS (Y010452); 15 MONTHS \$19,600

HOWARD UNIVERSITY-COLLEGE OF MEDICINE

AHLUWALIA, BALWANT S; THE ROLE OF RETINOL IN SPERMATOGENESIS (B021228); 12 MONTHS \$8,000

FLORIDA

FLORIDA STATE UNIVERSITY

CROUSE, HELEN V, AND TAYLOR, J HFRBERT; CHROMOSOMES OF SCIARA (B008447 001); 24 MONTHS \$52,000

PAPANICOLAOU CANCER RESEARCH INSTITUTE

SMITH, DAVID S; FINE STRUCTURE OF SENSORY AND MOTOR COMPONENTS OF THE INSECT NERVOUS SYSTEM (B012117 X02); 12 MONTHS \$25,000

UNIVERSITY OF MIAMI-SCHOOL OF MEDICINE

WERNER, RUDOLF; MECHANISM OF DNA REPLICATION (B027130 001); 24 MONTHS \$90,000

WARREN, ROBERT H; DEVELOPMENTAL ULTRASTRUCTURE OF STRIATED MUSCLE-CYTOSKELETAL SYSTEMS AND MYOFIBRIL ASSEMBLY (B027022); 24 MONTHS \$15,000

GEORGIA

ATLANTA UNIVERSITY CENTER

LUMB, JUDITH RAE; A STUDY OF DEPRESSION AND MOUSE LYMPHOMAS (Y010455); 15 MONTHS \$23,800

UNIVERSITY OF GEORGIA

DURE, LEON S III; BIOCHEMISTRY OF EMBRYOGENESIS AND GERMINATION (B014652 001); 24 MONTHS \$48,000

CARLTON, BRUCE C; GENE-ENZYME STUDIES OF BACILLUS SUBTILIS (B020606); 12 MONTHS \$14,500

GILES, NORMAN H; GENETIC AND BIOCHEMICAL STUDIES ON AROMATIC METABOLISM IN SELECTED PHOTOSYNTHETIC ORGANISMS (B023026); 24 MONTHS \$40,000

EMORY UNIVERSITY-SCHOOL OF MEDICINE

SCOTT, JUNE R; INTERACTION OF AN EXTRACHROMOSOMAL PROPHAGE WITH ITS HOST (B01819 001); 24 MONTHS \$30,000

HAWAII

UNIVERSITY OF HAWAII

HUMPHREYS, TOM D II; BIOCHEMICAL BASIS OF SPECIFIC CELL ASSOCIATION (B031616); 3 MONTHS \$9,900

HUMPHREYS, TOM D II; BIOCHEMICAL BASIS OF SPECIFIC CELL ASSOCIATION (B031616 001); 24 MONTHS \$45,300

ILLINOIS

CHICAGO HORTICULTURAL SOCIETY

BEADLE, GEORGE W; SEED COLLECTION AND MUTATION RESEARCH IN TEOSINTE (CORN RELATED) POPULATIONS (B031096); 14 MONTHS \$4,600

NORTHWESTERN UNIVERSITY

BURNETT, ALLISON L; CONTROL OF CELLULAR DIFFERENTIATION IN HYDRA (B017817 001); 3 MONTHS \$500

UNIVERSITY OF CHICAGO

LEWONTIN, RICHARD C; GENETIC HETEROZYGOSITY IN NATURAL POPULATIONS (B007135 X03); 12 MONTHS \$48,100

CHIANG, KWEN-SHENG; MOLECULAR MECHANISM OF NON-MENDELIAN INHERITANCE (B012238 001); 24 MONTHS \$50,060

FISCHMAN, DONALD A; MYOFIBRILLAR ASSEMBLY IN CARDIAC MUSCLE (B024546 001); 12 MONTHS \$12,000

STRAUSS, BERNARD S; STUDIES ON THE IN VIVO PRODUCTION OF BREAKS IN THE DNA OF EUKARYOTIC CELLS (B029481 X01); 12 MONTHS \$28,100

COHEN, MORREL H, AND ROBERTSON, ANTHONY D J; THE CONTROL OF DEVELOPMENT (B030714); 24 MONTHS \$51,000

ROIZMAN, BERNARD; ADVISORY AND PLANNING STUDY FOR THE DEVELOPMENT OF CELL CULTURE FACILITIES (B031936); 12 MONTHS \$8,000

COZZARELLI, NICHOLAS R; DNA SYNTHESIS AND REPAIR IN BACTERIA AND BACTERIOPHAGE (B022245); 24 MONTHS \$55,100

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

CHEN, SHEPLEY S C; CHANGES IN DORMANT SEEDS DURING DRY STORAGE (B030750); 24 MONTHS \$14,000

UNIVERSITY OF ILLINOIS AT URBANA

WHITT, GREGORY S; DIFFERENTIAL GENE FUNCTION DURING CELLULAR DIFFERENTIATION (B016345 001); 24 MONTHS \$41,000

REICHMANN, MANFRED E; VIRUS MULTIPLICATION (B029477 X01); 12 MONTHS \$25,000

STEFFENSEN, DALE M; GENETIC AND BIOCHEMICAL STUDIES WITH DROSOPHILA RIBOSOMES AND TRANSFER RNA (B029604 X01); 12 MONTHS \$50,600

DRAKE, JOHN W; STUDIES ON MUTATION (B030964 X00); 12 MONTHS \$25,000

LAMBERT, R J; MAINTENANCE OF GENETIC AND CHROMOSOMAL TESTER STOCKS OF MAIZE (B031140 X00); 12 MONTHS \$34,700

STOCUM, DAVID L; MORPHOGENETIC CONTROL DURING AMPHIBIAN LIMB REGENERATION (B031176); 24 MONTHS \$14,900

REICHMANN, M E; DEFECTIVE PARTICLES IN VIRUS INFECTION (B031171); 24 MONTHS \$40,000

WIDHOLM, JACK M; GENETIC TRANSFORMATION WITH CULTURED PLANT CELL MUTANTS (B031177); 12 MONTHS \$17,000

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

WHITE, DAVID; MORPHOGENESIS IN THE FRUITING MYXOBACTERIA (B020316 001); 24 MONTHS \$31,000

STARR, RICHARD C; MAINTENANCE OF A CULTURE COLLECTION OF ALGAE (B020480 001); 24 MONTHS \$43,300

BRIGGS, ROBERT, HUMPHREY, R. R., MALACINSKI, G. M., AND SCHABLE, R.; GENETIC STOCKS OF THE AXOLOTL (B03438 X00); 12 MONTHS \$28,000

LANDSBERGER, FRANK R; MAGNETIC RESONANCE STUDIES OF MEMBRANES, ENVELOPED VIRUSES, AND VIRUS-MEMBRANE INTERACTIONS (B03447); 24 MONTHS \$90,900

PURDUE UNIVERSITY

SMITH, L DENNIS; NUCLEO-CYTOPLASMIC INTERACTIONS IN CELL DIFFERENTIATION (B008741 001); 24 MONTHS \$44,400

CLEVER, ULRICH; CHROMOSOMAL ACTIVITY AND THE GENOMIC CONTROL OF CELL FUNCTION AND DEVELOPMENT IN POLYTENIC CELLS (B014350 001); 24 MONTHS \$109,900

JAFFE, LIONEL F; ELECTRICAL CURRENTS THROUGH DEVELOPING EGGS (B017371 X01); 12 MONTHS \$40,000

ARONSON, ARTHUR I; MACROMOLECULE SYNTHESIS DURING EARLY SEA URCHIN EMBRYO DEVELOPMENT (B017947 001); 24 MONTHS \$58,000

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

WEISHONS, W J; INTRAGENIC RECOMBINATION, POSITION EFFECTS, AND DOSAGE COMPENSATION AT THE NOTCH LOCUS OF DROSOPHILA (B030746); 24 MONTHS \$40,100

UNIVERSITY OF IOWA

FRANKEL, JOSEPH; A MUTATIONAL STUDY OF CORTICAL DEVELOPMENT IN TETRAHYMENA (B032408 X00); 12 MONTHS \$26,600

WALKER, DONALD H JR; CONTROL OF CAPSID FORMATION AND DNA-PACKAGING IN BACTERIAL VIRUSES (B034449); 24 MONTHS \$46,000

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

BOWDEN, JOE A; STUDIES ON THE GENETIC DEFECT IN BRANCHED-CHAIN KETOACIDURIA (B031181); 24 MONTHS \$40,000

SOUTHERN UNIVERSITY

ROBINSON, FLORENCE TAYLOR; COSIP D RESEARCH INITIATION - PATTERNS OF GERM CELL MIGRATION AS EXHIBITED BY THE RAPTILIA (Y010470); 15 MONTHS \$19,400

MAINE

JACKSON LABORATORY

GREEN, MARGARET; MAINTENANCE OF A MOUSE MUTANT STOCK CENTER (B027487 001); 12 MONTHS \$53,000

MARYLAND

AMERICAN TYPE CULTURE COLLECTION

CLARK, WILLIAM A; CURATORIAL SUPPORT FOR THE AMERICAN TYPE CULTURE COLLECTION (B027490 001); 12 MONTHS \$100,000

ATOMIC ENERGY COMMISSION

YOURNO, JOSEPH D; FRAMESHIFT MUTAGENESIS BY ICR COMPOUNDS IN 'SALMONELLA TYPHIMURIUM' (AG00880); 24 MONTHS \$32,000

JOHNS HOPKINS UNIVERSITY-SCHOOL OF MEDICINE

KELLY, THOMAS J JR; VIRAL DNA MOLECULES (B031164); 24 MONTHS \$75,000

CUATRECASAS, PEDRO; MOLECULAR TOPOGRAPHY OF CELL SURFACE RECEPTORS (B034900); 24 MONTHS \$118,500

MASSACHUSETTS

BOSTON UNIVERSITY

STRIGINI, PAOLO; RIBOSOMAL ROLE IN INFORMATIONAL SUPPRESSION (B031696); 7 MONTHS \$6,600

WALTERS, DAVID R; CELL ADHESION DURING INSECT DEVELOPMENT (B032479); 24 MONTHS \$26,000

BRANDEIS UNIVERSITY

FULTON, CHANDLER; CELL DIFFERENTIATION AND ORGANELLE MORPHOGENESIS (B016344 001); 24 MONTHS \$71,200

CASPAR, DONALD L D; DIFFERENTIATED MEMBRANE ASSEMBLY AND INTERACTIONS (B034436); 24 MONTHS \$90,900

CHILDRENS CANCER RESEARCH FOUNDATION

CASPAR, DONALD L D; DIFFERENTIATED MEMBRANE ASSEMBLY AND INTERACTIONS (B034437); 12 MONTHS \$28,900

HARVARD UNIVERSITY

MESELSON, MATTHEW S; GENETIC RECOMBINATION, BIOCHEMISTRY OF DNA, AND RIBOSOMES AND MESSENGER RNA (B007768 X02); 12 MONTHS \$126,500

LEVINE, R P; THE GENETIC CONTROL OF CHLOROPLAST STRUCTURE AND FUNCTION IN 'CHLAMYDOMONAS' REINHARDI (B012666 001); 24 MONTHS \$50,000

PTASHNE, MARK; REPRESSORS, OPERATORS, AND GENE CONTROL (B028827 X01); 12 MONTHS \$94,000

STROMINGER, JACK L; BACTERIAL SPORE WALL SYNTHESIS AS A MODEL OF A DEVELOPMENTAL PROCESS (B030690 X00); 12 MONTHS \$39,000

THOMAS, C A JR; MOLECULAR CYTOGENETICS (B031118 X00); 12 MONTHS \$126,000

RAPER, JOHN R; INEFFICIENT ENERGY CONSERVATION IN THE B-MUTANT 'SCHIZOPHYLLUM' (B031141); 24 MONTHS \$50,000

BRENNER, MICHAEL; BIOCHEMISTRY AND GENETICS OF DEVELOPMENT OF THE CELLULAR SLIME MOLD (B032045); 24 MONTHS \$50,000

SCHACHNER, MELITTA; DISTRIBUTION OF ANTIGENIC DETERMINANTS ON BRAIN CELL SURFACES (B031186); 24 MONTHS \$65,900

BOGORAD, LAWRENCE; INTRACELLULAR RELATIONSHIPS IN THE DEVELOPMENT OF EUKARYOTIC CELLS (B034803); 12 MONTHS \$23,400

HARRISON, STEPHEN C, AND WILEY, DON C; DIFFERENTIATED MEMBRANE ASSEMBLY AND INTERACTIONS (B034474); 24 MONTHS \$27,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

BELL, EUGENE; MOLECULAR STUDIES OF DIFFERENTIATING CELLS (B027386 X01); 12 MONTHS \$20,000

LODISH, HARVEY F; PROTEIN BIOSYNTHESIS DURING DEVELOPMENT OF CELLULAR SLIME MOLDS (B019308 X01); 12 MONTHS \$50,000
 INGRAM, VERNON M; DETERMINATION AND DIFFERENTIATION OF EMBRYONIC ERYTHROPOIESIS IN CELL CULTURES (B030970 X00); 12 MONTHS \$91,400
 FOX, MAURICE S; STRUCTURE AND FATE OF UNDUPLICATED RECOMBINANTS OF BACTERIOPHAGE LAMBDA (B033622); 24 MONTHS \$50,000

RETINA FOUNDATION

WRIGHT, BARBARA E. AND THOMAS, DAVID A; THE MECHANISM OF ENHANCED ENZYME LEVELS DURING DIFFERENTIATION (B032028); 24 MONTHS \$20,600

TUFTS UNIVERSITY

SIEGEL, ELI C; MUTATOR GENES OF 'ESCHERICHIA COLI'- MUTATION AND DNA REPAIR (B014279 000); 24 MONTHS \$53,100

HARVARD UNIVERSITY-HARVARD MEDICAL SCHOOL

FRAENKEL, DAN G; BIOCHEMICAL GENETICS OF GLYCOLYSIS AND THE HEXOSE MONOPHOSPHATE SHUNT IN BACTERIA (B032281 X00); 12 MONTHS \$43,100

HUANG, ALICE S; DIFFERENTIATED MEMBRANE ASSEMBLY AND INTERACTIONS (B041464); 24 MONTHS \$32,500

GOODENOUGH, DANIEL A; DIFFERENTIATED MEMBRANE ASSEMBLY AND INTERACTIONS (B034293); 24 MONTHS \$92,700

TUFTS UNIVERSITY-SCHOOL OF MEDICINE

MALAMY, MICHAEL H; MECHANISMS OF TRANSLATIONAL CONTROL DURING BACTERIOPHAGE T7 DEVELOPMENT AND ITS INHIBITION BY F FACTORS (B019490 X01); 12 MONTHS \$30,000

MICHIGAN

MICHIGAN STATE UNIVERSITY

SNYDER, LOREN R; MECHANISMS OF THE CONTROL OF RNA SYNTHESIS (B030380); 24 MONTHS \$23,400

OAKLAND UNIVERSITY

BUTTERWORTH, FRANCIS M; HORMONAL AND GENETIC CONTROL OF DEVELOPMENT OF LARVAL ADIPOSE TISSUE OF DROSOPHILA MELANOGASTER (B012689 001); 4 MONTHS \$5,300

UNIVERSITY OF MICHIGAN

SUSSMAN, ALFRED S; DEVELOPMENTAL PROCESSES IN NEUROSPORA (B066811 X00); 12 MONTHS \$44,500

DAVIS, ROWLAND; METABOLIC CHANNELING IN NEUROSPORA (B013398 001); 24 MONTHS \$85,000

BERNS, MICHAEL W; LASER MICROBEAM STUDIES ON CHROMOSOMES (B024457 001); 24 MONTHS \$50,000

NACE, GEORGE W; DEVELOPMENT OF DEFINED AMPHIBIAN STRAINS (B013144); 12 MONTHS \$10,000

UNIVERSITY OF MICHIGAN-MEDICAL SCHOOL

FRIEDMAN, DAVID I; HOST AND VIRAL INFLUENCES ON PHAGE LAMBDA REPLICATION (B019599; X01); 12 MONTHS \$25,000

CHU, ERNEST H Y; MOLECULAR APPROACHES TO GENE MAPPING IN MAN (B014024); 24 MONTHS \$39,500

MINNESOTA

ROSENBERG, MURRAY D; OTHER PROGRAM AWARDS (01AWDS); 9 MONTHS \$34,260

UNIVERSITY OF MINNESOTA

GRAY, ERNEST D; MOLECULAR EVENTS DURING CELL DIFFERENTIATION IN A PRIMITIVE MODEL SYSTEM (B012441 000); 24 MONTHS \$43,000

ENFIELD, FRANKLIN D; POPULATION AND QUANTITATIVE GENETIC STUDIES OF ELECTROPHORETIC VARIANTS IN TRIBOLIUM CASTANEUM (B012751 001); 24 MONTHS \$30,700

HARTL, D L; GENETIC AND POPULATION STUDIES OF SEGREGATION DISTORTION (B018786 001); 24 MONTHS \$40,000

ZISSLER, JAMES F; GENETIC RECOMBINATION IN VIRUSES (B020677 001); 24 MONTHS \$50,000

DWORKIN, MARTIN; DEVELOPMENTAL BIOLOGY OF A FRUITING MYXOBACTERIUM (B019938 X01); 12 MONTHS \$23,700

SNYDER, L A; USE OF FEMALE STERILE MUTANTS IN EARLY DEVELOPMENT IN DROSOPHILA (B032352); 12 MONTHS \$10,000

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

EISENSTARK, ABRAHAM; MUTAGENIC AND LETHAL DAMAGE TO RECOMBINATIONLESS MUTANTS BY VISIBLE LIGHT AND BY TRYPTOPHAN PHOTOPRODUCTS (B033889); 24 MONTHS \$40,000

WASHINGTON UNIVERSITY

LEVI-MONTALCINI, RITA; IN-VIVO AND IN-VITRO ANALYSIS OF THE INSECT NERVOUS SYSTEM (B016330 X01); \$11,400

LEVI-MONTALCINI, RITA; IN-VIVO AND IN-VITRO ANALYSIS OF THE INSECT NERVOUS SYSTEM (B016330 X02); 12 MONTHS \$25,100

KENNEL, DAVID E; GENE EXPRESSION OF BACTERIA AND BACTERIAL VIRUSES (B019196 001); 24 MONTHS \$55,000

SILVER, SIMON D; POTASSIUM AND MANGANESE TRANSPORT SYSTEMS AS CONTROLLING ELEMENTS IN THE BACILLUS SUBTILIS CYCLE OF SPORE FORMATION AND GERMINATION (B033387); 24 MONTHS \$80,000

APIRION, DAVID; GENETIC AND STRUCTURAL STUDIES OF 'E. COLI' RIBOSOMES (B034158); 12 MONTHS \$40,000

NEW JERSEY

PRINCETON UNIVERSITY

COX, EDWARD C; 'ESCHERICHIA COLI' MUTATOR GENES (B012963 001); 12 MONTHS \$10,000

MEINS, FREDERICK JR; HERITABLE CHANGES IN THE TUMOR STATE OF PLANTS (B012916 001); 24 MONTHS \$39,000

TOMPKINS, ROBERT; DEVELOPMENTAL GENETICS AND BIOCHEMISTRY OF BEHAVIOR (B030399); 24 MONTHS \$18,200

STEINBERG, MALCOLM S; CONTROLS GOVERNING ORGANIZATIONAL BEHAVIOR OF EMBRYONIC AND MALIGNANT CELLS (B030898); 12 MONTHS \$20,000

WORCEL, ABRAHAM; MECHANISM OF CONTROL OF DNA REPLICATION IN E. COLI (B032036); 24 MONTHS \$65,000

BONNER, JOHN T; DEVELOPMENT IN THE CELLULAR SLIME MOLDS (B033439 X00); 12 MONTHS \$32,000

RUTGERS UNIVERSITY

CHAMPE, SEWELL P; GENETIC AND BIOCHEMICAL STUDIES OF THE CLEAVAGE OF BACTERIOPHAGE PROTEINS (B033364); 24 MONTHS \$48,000

NEW YORK

COLD SPRING HARBOR LAB OF QUANTITATIVE BIOLOGY

ZIPSER, DAVID; POLAR MUTANTS AND LAC OPERON FUNCTION (B032041 X00); 12 MONTHS \$44,300

COLUMBIA UNIVERSITY

ZUBAY, GEOFFREY L; CONTROL OF BACTERIAL OPERONS IN CELL-FREE SYSTEMS (B018733 001); 12 MONTHS \$15,000

DARNELL, JAMES E; THE USE OF RNA VIRUSES IN THE STUDY OF CELL BIOLOGY (B027691 X01); 12 MONTHS \$33,900

WECHSLER, JAMES ALAN; CONTROL AND MECHANISM OF 'IN VIVO' DNA REPLICATION (B032117); 24 MONTHS \$30,000

DOWNSTATE MEDICAL CENTER AT BROOKLYN

BERNHEIMER, HARRIET P; RECOMBINATION BY ADDITION IN TRANSFORMATION REACTIONS IN PNEUMOCOCCUS (B031137); 12 MONTHS \$29,200

MT SINAI SCHOOL OF MEDICINE

CAPRA, J DONALD AND KEHOE, J MICHAEL; AN IMMUNOCHEMICAL AND IMMUNOGENETIC STUDY OF HUMAN Y GLOBULINS (B017046 001); 24 MONTHS \$85,000

LEVITAN, MAX; CYTOGENETIC STUDIES BEARING ON THE ORGANIZATION OF THE GENOME (B029417 X01); 12 MONTHS \$20,000

NEW YORK UNIVERSITY

KAMBYSELLIS, MICHAEL P; STUDIES IN DEVELOPMENT OF INSECT CELLS (B024189); 24 MONTHS \$30,200

PUBLIC HEALTH RESEARCH INSTITUTE OF NEW YORK

OISHI, MICHIO; MOLECULAR EVENTS ASSOCIATED WITH GENE FUNCTION, DNA REPLICATION AND RECOMBINATION (B014913 002); 12 MONTHS \$46,000

DUBNAU, DAVID A; INTEGRATION OF TRANSFORMING DNA IN 'BACILLUS SUBTILIS' (B018146 001); 24 MONTHS \$64,600

ROCKEFELLER UNIVERSITY

HOTCHKISS, ROLLIN D. AND ROGER, MURIEL; STRUCTURAL PARAMETERS GOVERNING DNA ACTIVITY IN TRANSFORMATION AND RECOMBINATION (B006896 001); 24 MONTHS \$90,300

ZINDER, NORTON D; GENETIC AND PHYSIOLOGICAL STUDIES OF SMALL BACTERIOPHAGES (B029626 X01); 12 MONTHS \$150,700

VOELLER, BRUCE R; DEVELOPMENTAL AND EVOLUTIONARY STUDIES OF PTERIDOPHYTES (B030611); 24 MONTHS \$71,500

ZINDER, NORTON D; CONFERENCE ON THE STRUCTURE AND ORGANIZATION OF SURFACES OF HUMAN CELLS, ROCKEFELLER UNIVERSITY, DECEMBER 10-12, 1971 (B031677); 12 MONTHS \$8,700

SLOAN-KETTERING INSTITUTE

LENARD, JOHN; STRUCTURE OF SOME ENVELOPED VIRUSES AND THEIR INTERACTIONS WITH CELL MEMBRANES (B034298); 24 MONTHS \$38,600

HAMMERLING, ULRICH; DISTRIBUTION OF ANTIGENIC DETERMINANTS ON BRAIN CELL SURFACES (B034299); 24 MONTHS \$29,500

STATE UNIVERSITY AT ALBANY

SAUNDERS, JOHN W JR; ECTODERM-MESODERM INTERACTIONS IN DEVELOPMENT (B006638 X00); 12 MONTHS \$39,000

TEXAS

BISHOP COLLEGE

FOWLES, EDISON R; COSIP D RESEARCH INITIATION - MOLECULAR BIOLOGY OF MULTIPLE VERUSES (Y010344); 18 MONTHS \$23,000

UNIV OF TEX MD ANDRSN HOSP & TUM INST AT HUSTN

STUBBLEFIELD, T E; PROTEIN SYNTHESIS IN SYNCHRONIZED CELLS (S014850 001); 8 MONTHS \$4,000

UNIV OF TEXAS AT AUSTIN

WAGNER, ROBERT P; STUDIES IN BIOCHEMICAL GENETICS (B030340); 12 MONTHS \$4,000

BLOCH, DAVID P; BUOYANT DENSITY BANDING OF CHROMATIN IN CHLORAL HYDRATE GRADIENTS (B030714); 24 MONTHS \$31,000

JUDD, BURKE H; CYTOGENETIC STUDIES OF DROSOPHILA MELANOGASTER (B031447); 24 MONTHS \$73,300

UNIV OF TEXAS AT DALLAS

OUTZ, HERBERT; MOLECULAR GENETICS OF YEAST (B031143 001); 24 MONTHS \$50,000

UTAH

HANLY, E W; OTHER PROGRAM AWARDS (01AWDS); 12 MONTHS \$34,500

VERMONT

MIDDLEBURY COLLEGE

SAUL, GEORGE S; MAINTENANCE OF A NORMONIELLA STOCK CENTER (B016132 001); 24 MONTHS \$30,000

VIRGINIA

UNIVERSITY OF VIRGINIA

KONIGSBERG, IRWIN R; ROLE OF COLLAGEN IN THE DEVELOPMENT OF MUSCLE CLONES IN VITRO (B003943 001); 12 MONTHS \$50,000

REBHUN, LIONEL I; MOLECULAR ANATOMY, STRUCTURE AND ASSEMBLY OF INTERNAL MOTILE SYSTEMS IN CELLS (B000488 X02); 12 MONTHS \$41,100

BODENSTEIN, DIETRICH; DIFFERENTIATION AND PROBLEMS OF NEURO-DEVELOPMENT IN INSECTS AND LOWER VERTEBRATES (B020147 X04); 12 MONTHS \$14,900

KADNER, ROBERT J; GENETIC CONTROL OF AMINO ACID TRANSPORT (B031194 X01); 12 MONTHS \$18,000

VIRGINIA POLYTECHNIC INSTITUTE

ROSS, MARY H; GENETIC STOCK CENTER FOR THE 'BLATTELLA GERMANICA' (B022934 001); 12 MONTHS \$19,600

UNIVERSITY OF VIRGINIA-SCHOOL OF MEDICINE

FLICKINGER, CHARLES J; ORIGIN AND RELATIONSHIPS OF CYTOPLASMIC MEMBRANES (B022185); 24 MONTHS \$31,000

WASHINGTON

UNIVERSITY OF WASHINGTON

STADLER, DAVID R; RECOMBINATION AND GENE FUNCTIONS OF MICROORGANISMS (B012112 001); 8 MONTHS \$26,300

STADLER, DAVID R; RECOMBINATION AND GENE FUNCTION IN MICROORGANISMS (B012112 002); 24 MONTHS \$90,000

KELLER, JOHN M; CHANGES IN ANIMAL CELL MEMBRANES DURING MITOSIS (B011874 001); 24 MONTHS \$31,000

LAIRD, CHARLES D; CHROMOSOME STRUCTURE AND FUNCTION (B030400); 24 MONTHS \$90,000

CLELAND, ROBERT E; CONTROL OF DEVELOPMENT IN THE RED ALGA GRIFFITHSIA PACIFICA (B031937); 24 MONTHS \$25,000

UNIVERSITY OF WASHINGTON-SCHOOL OF MEDICINE

NAMEROFF, MARK A; MICROENVIRONMENTAL CONTROL OF MYOGENESIS (B031939); 12 MONTHS \$18,000

FALKOW, STANLEY; EVOLUTION OF BACTERIAL PLASMIDS (B021110); 12 MONTHS \$40,000

WISCONSIN

SOCIETY FOR DEVELOPMENTAL BIOLOGY

RUDDLE, FRANK H; SYMPOSIUM ON GENETIC MECHANISMS OF DEVELOPMENT (B031191); 12 MONTHS \$6,000

UNIVERSITY OF WISCONSIN, MADISON

AUERBACH, ROBERT; CONTROL MECHANISMS IN LYMPHOID DIFFERENTIATION (B004617 X04); 12 MONTHS \$73,500

AUERBACH, ROBERT; CONTROL MECHANISMS IN LYMPHOID DIFFERENTIATION (B004617 X01); \$2,900

BORIS, GARY G; MECHANISMS OF ASSEMBLY AND FUNCTION OF MICROTUBULES AND THEIR ROLE IN CELL DEVELOPMENT (B0008745 X04); 12 MONTHS \$28,000

NEWCOMB, ELDON H, AND BECKER, WAYNE M; STUDIES IN PLANT CELL BIOLOGY (B031446 004); 24 MONTHS \$90,000

LILJEN, JACK E; DEVELOPMENTAL ASPECTS OF CELL SURFACE UCTURE AND FUNCTION (B017853 001); 24 MONTHS \$25,000

WRIGHT, SEWALL; EVOLUTION AND THE GENETICS OF POPULATIONS (B02134 001); 12 MONTHS \$15,800

COHEN, PHILIP P; RNA POLYMERASES DURING AMPHIBIAN DIFFERENTIATION AND DEVELOPMENT (B011027); 24 MONTHS \$38,000

DAHLBERG, JAMES E; SEQUENCE ANALYSIS AND STRUCTURE-FUNCTION RELATIONSHIPS OF NUCLEIC ACIDS (B031136 X00); 12 MONTHS \$60,000

FITCH, WALTER M; SPECIAL APPROACHES TO THE STUDY OF EVOLUTIONARY RELATIONSHIPS (B022971 X00*); 12 MONTHS \$12,000

NAMENWIRTH, MARION; REGIONAL CONTROL OF GENE EXPRESSION DURING EARLY EMBRYONIC DEVELOPMENT (B031804); 24 MONTHS \$43,000

UNIVERSITY OF WISCONSIN, MADISON-MEDICAL SCHOOL

DAHLBERG, JAMES E; NUCLEOTIDE SEQUENCE ANALYSIS OF GENETIC PUNCTUATION (B031671 001); 8 MONTHS \$4,500

WYOMING

UNIVERSITY OF WYOMING

SMITH-SONNEBORN, JOAN; STUDIES OF AGING IN 'PARAMECIUM' (B031674); 12 MONTHS \$13,000

ECOLOGY AND SYSTEMATIC BIOLOGY

ALABAMA

TUSKEGEE INSTITUTE

SAINI, RAJINDER S; COSIP D RESEARCH INITIATION - ASTER YELLOW MYCOPLASMA THAT CAN MODIFY SOME INSECT-PLANT RELATIONSHIPS (Y010347); 15 MONTHS \$17,800

UNIVERSITY OF ALABAMA IN BIRMINGHAM

SCHNITZLEIN, H N; COMPARATIVE ANATOMY OF THE FOREBRAINS OF FISHES (B030758); 24 MONTHS \$33,000

UNIVERSITY OF ALABAMA, TUSCALOOSA

CROSS, EARLE A; ENERGY RELATIONSHIPS IN A SMALL FINITE NATURAL SYSTEM (B031345); 12 MONTHS \$16,000

ALASKA

UNIVERSITY OF ALASKA

CAMERON, JAMES N; SEASONAL CHANGES OF THE RESPONSES OF FISH TO LOW OXYGEN (B031782); 18 MONTHS \$45,300

UNIVERSITY OF ALASKA-INSTITUTE OF MARINE SCIENCE

BUTTON, D K; HEAVY METAL INHIBITION OF AQUATIC MICROORGANISMS (B031147); 12 MONTHS \$30,000

ARIZONA

ARIZONA STATE UNIVERSITY

HADLEY, NEIL F; EFFECTS OF GAMMA RADIATION ON THE POPULATION DYNAMICS OF A NOCTUID MOTH (B031444); 24 MONTHS \$34,200

GERKING, SHELBY D; DISSERTATION RESEARCH- FISH PRODUCTION IN A THERMAL STREAM (B032111); 24 MONTHS \$2,500

UNIVERSITY OF ARIZONA

HEED, WILLIAM B, AND KIRCHER, HENRY W; NUTRITIONAL ECOLOGY OF DROSOPHILA (B022954 X01); 12 MONTHS \$27,000

WERNER, F G; DOCTORAL DISSERTATION RESEARCH - ECOLOGICAL AND CYTOLOGICAL STUDIES OF CHAMAEMYIIDAE (B030248); 12 MONTHS \$800

HENDRICKSON, J R; OPERATIONAL SUPPORT FOR PUERTO PENASCO MARINE BIOLOGY FACILITY (B031673); 12 MONTHS \$9,500

ARKANSAS

UNIVERSITY OF ARKANSAS

SMITH, EDWIN B; SYSTEMATIC STUDIES IN THE GENUS 'COREOPSIS' (COMPOSITAE)- SPECIES EAST OF THE ROCKY MOUNTAINS (B030919); 24 MONTHS \$22,900

CALIFORNIA

CALIFORNIA ACADEMY OF SCIENCES

ESCHMEYER, WILLIAM N, AND CHEN, LO-CHAI; EVOLUTION AND BIOLOGY OF THE SCORPIONFISH SUBFAMILY SEBASTINAE (B016109 001); 24 MONTHS \$31,100

FREIHOFER, WARREN C; EVOLUTIONARY STUDIES OF NERVE PATTERNS OF PSYCHOID FISHES (B030551); 24 MONTHS \$22,000

ESCHMEYER, WILLIAM N; CURATING THE FISH COLLECTION OF THE CALIFORNIA ACADEMY OF SCIENCES (B033286 X00); 12 MONTHS \$34,700

ARNAUD, PAUL H JR; CURATORIAL SUPPORT FOR THE ENTOMOLOGY COLLECTION (B033287 X00); 12 MONTHS \$42,900

CALIFORNIA INSTITUTE OF TECHNOLOGY

PATTERSON, CLAIR C; BIOLOGICAL DISCRIMINATION FACTORS FOR METALS WITHIN NATURAL ECOSYSTEMS (B031058*); 12 MONTHS \$18,000

CALIFORNIA STATE POLYTECHNIC UNIV, POMONA
 FORCE, DON C; COMPETITION AMONG PARASITES ATTACKING A
 COMMON INSECT HOST (B047115); 24 MONTHS \$12,200

CALIFORNIA STATE UNIVERSITY, CHICO
 KISTNER, DAVID H; A SPECIES REVISION OF CERTAIN TRIBES OF
 THE SUBFAMILY ALBOCHARINAE (COLEOPTERA: STAPHYLINIDAE)
 (B044441 X01); 12 MONTHS \$13,200

CALIFORNIA STATE UNIVERSITY, SAN DIEGO
 LILLEGRAVEN, JASON A; SALVAGE AND STUDY OF LATE EOCENE
 FOSSIL MAMMALS FROM THE SAN DIEGO AREA, SOUTHERN CALIFOR-
 NIA (B046319); 24 MONTHS \$20,000

CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO
 THIERS, HARRY; SUILLUS FLORA (B014917 001); 12 MONTHS \$11,000

CLAREMONT GRADUATE SCHOOL
 CARLQUIST, SHERWIN; THE EVOLUTION OF WOOD (B014092 001); 24
 MONTHS \$22,000

CARLQUIST, SHERWIN; DOCTORAL DISSERTATION RESEARCH. COM-
 PARATIVE AND FIELD STUDIES ON 'SARCODES' AND OTHER
 MONOTROPOIDEAE (ERICACEAE) (B031949); 12 MONTHS \$3,100

LOS ANGELES COUNTY MUSEUM OF NATURAL HISTORY
 WHISTLER, DAVID P; SUPPORT OF VERTEBRATE PALEONTOLOGY
 COLLECTION IN THE NATURAL HISTORY MUSEUM OF LOS ANGELES
 COUNTY (B043585 X00); 12 MONTHS \$73,300

MONTEREY PENINSULA COLLEGE
 GILMARTIN, AMY J; QUANTIFICATION OF POPULATION VARIABILI-
 TY (B028014 001); \$1,700

UNIVERSITY OF CALIFORNIA, BERKELEY
 WILSON, ALLAN C; COMPARATIVE BIOCHEMISTRY AND IMMUNO-
 CHEMISTRY OF VERTEBRATE PROTEINS (B013112 001); 24 MONTHS
 \$70,000

WAKE, DAVID B; EVOLUTIONARY BIOLOGY OF AMPHIBIANS (B011114
 001); 24 MONTHS \$38,800

ORNDUFF, ROBERT; ORIGIN AND FUNCTION OF HETEROSTYLY IN
 FLOWERING PLANTS (B017613 001); 24 MONTHS \$41,900

CALVIN, MELVIN; PARTICULATE AND DISSOLVED ORGAN MATTER
 IN MONO LAKE (B024902 X01); 12 MONTHS \$47,600

LINSLEY, E G; CERAMBYCIDAE OF NORTH AMERICA (B031120 X00); 12
 MONTHS \$3,200

SNYDER, WILLIAM C; TAXONOMY AND NOMENCLATURE OF 'GIB-
 BERELLA FUSARIUM MONILIFORME' (B011209); 24 MONTHS \$41,700

BARLOW, GEORGE W; DOCTORAL DISSERTATION RESEARCH. EVOLU-
 TION OF ELECTRICAL BEHAVIOR IN THE SOUTH AMERICAN
 WEAKLY ELECTRIC FISHES (GYMNOTOIDEI) (B031140); 14 MONTHS \$3,700

HEINRICH, BERND; THE PHYSIOLOGICAL ECOLOGY OF TEMPERA-
 TURE REGULATION IN INSECTS (B031154); 24 MONTHS \$18,000

SPIETH, PHILIP T; GENETIC VARIATION AMONG WILD STRAINS OF
 NEUROSPORA (B032099); 24 MONTHS \$32,100

SAVAGE, D E; DOCTORAL DISSERTATION RESEARCH. A REVIEW OF
 THE MERYCOIDODONTIDAE (B024943); 12 MONTHS \$1,400

DALY, HOWELL V; BIOSYSTEMATICS OF BEES OF THE GENUS
 CERATINA AND ALLIES (B034049); 24 MONTHS \$23,300

ORNDUFF, ROBERT; DOCTORAL DISSERTATION RESEARCH. THE
 EVOLUTION OF HETEROSTYLOUS BREEDING SYSTEMS IN 'OXALIS'
 (B044716); 18 MONTHS \$3,200

UNIVERSITY OF CALIFORNIA, DAVIS
 HAMILTON, WILLIAM J III; BEHAVIOR AND ECOLOGY OF TROPICAL
 MIXED AVIAN FLOCKS (B017180 001); 12 MONTHS \$7,100

GOLDMAN, CHARLES R; PLANKTON COMMUNITY ECOLOGY IN
 NORTHERN CALIFORNIA LAKES (B019032 002); 3 MONTHS \$5,000

HAMILTON, WILLIAM J III; THERMAL ECOLOGY AND THERMOREGUL-
 ATORY BEHAVIOR OF BEETLES (B028332 X01); 12 MONTHS \$30,100

DOBZHANSKY, THEODOSIUS, AND AYALA, FRANCISCO J; EVOLU-
 TIONARY PATTERNS IN NEOTROPICAL 'DROSOPHILA' (B030883); 24
 MONTHS \$70,100

EDLIN, GORDON J; CHROMOSOME ORGANIZATION AND BACTERIAL
 EVOLUTION (B032520 X00); 12 MONTHS \$17,200

WEBSTER, GRADY L; DOCTORAL DISSERTATION RESEARCH. MONO-
 GRAPHIC STUDIES IN 'CNIDOSCOLUS' (B042810); 12 MONTHS \$1,900

STEBBINS, G LEDYARD; COMPARATIVE ECOLOGY OF THE PLANT
 FAMILY 'SAXIFRAGACEAE' (B043160); 24 MONTHS \$38,600

FLECK, RAYMOND A; A SYSTEMS APPROACH TO CONTROLLING
 PESTICIDE CONTAMINATION OF THE SAN JOAQUIN VALLEY (B033723
 X00); 12 MONTHS \$120,000

UNIVERSITY OF CALIFORNIA, IRVINE
 MACMILLEN, RICHARD E; DOCTORAL DISSERTATION RESEARCH. -
 PHYSIOLOGICAL ECOLOGY OF REPTILES AND MAMMALS (B030132); 24
 MONTHS \$4,000

LENHOFF, HOWARD M; MOSQUITO CONTROL BY HYDRA (B031068); 12
 MONTHS \$23,900

UNIVERSITY OF CALIFORNIA, LOS ANGELES
 LARSEN, PETER F; LATE PENNSYLVANIAN VERTEBRATES OF CSN-
 TIAL COLORADO (B019771 001); 24 MONTHS \$20,900

HOWELL, THOMAS R; DOCTORAL DISSERTATION RESEARCH ON
 POPULATION ECOLOGY OF CASSIN'S AUKLET (B030433); 12 MONTHS
 \$3,400

BROWN, JAMES H; DOCTORAL DISSERTATION RESEARCH. DYNAM-
 ICS OF SOME POPULATIONS OF DESERT PUFFINSH (B030833); 12 MONTHS
 \$1,900

LANE, N GARY; DOCTORAL DISSERTATION RESEARCH. PALEO-
 ECOLOGY OF MISSISSIPPIAN CAMERATE CRINOIDS (B030293); 24
 MONTHS \$500

OLSON, EVERETT C; PERMIAN TERRESTRIAL VERTEBRATES
 (B017462 X00); 12 MONTHS \$2,900

BARTHOLOMEW, GEORGE A; DOCTORAL DISSERTATION RESEARCH. -
 'THE COLONIZING ABILITY OF PIKAS' (B031140); 12 MONTHS \$1,100

HOWELL, THOMAS R; DOCTORAL DISSERTATION RESEARCH. FORAG-
 ING STRATEGIES AND FEEDING SPECIALIZATIONS IN SANDPIPERS
 (B040913); 24 MONTHS \$1,500

BARTHOLOMEW, GEORGE A; ECOLOGICAL PHYSIOLOGY AND
 BEHAVIOR (B034917 X00); 12 MONTHS \$23,000

UNIVERSITY OF CALIFORNIA, RIVERSIDE
 PENGELLEY, E T; MECHANISMS CONTROLLING THE PHYSIOLOGY OF
 HIBERNATION (B028023 001); 24 MONTHS \$42,000

PRATT, P F; ANION ADSORPTION IN TROPICAL SOILS AS A FACTOR
 IN NITROGEN CYCLING BY PLANTS (B017111 001); 12 MONTHS \$10,200

DEBACH, PAUL; BIOSYSTEMATICS AND PHYLOGENY OF SPECIES OF
 'APHYTIS' (B017829 001); 24 MONTHS \$45,100

PINTO, JOHN D; TAXONOMIC RELATIONSHIPS AND SPECIATION
 MECHANISMS (B030807); 24 MONTHS \$22,000

GILLET, GEORGE W; EXPERIMENTAL AND TAXONOMIC STUDY OF
 'BIDENS' (ASTERACEAE) AND 'CYRTANDRA' IN HAWAII AND THE
 SOUTH PACIFIC (B032092); 24 MONTHS \$27,900

UNIVERSITY OF CALIFORNIA, SAN DIEGO
 WILLIAMS, FRANCIS; TAXONOMIC REVISION OF THE GENUS
 'CARANGOIDES' (B031197); 24 MONTHS \$34,900

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
 AUDY, J RALPH; MONOGRAPH OF WORLD TROMBICULIDAE AND
 LEBUEWENHOEKIIDAE (B033363 X01); 12 MONTHS \$30,800

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF
 OCEANOGRAPHY
 NEWMAN, WILLIAM A; SYSTEMATICS OF CIRRIPIEDIA (B030908 X00);
 12 MONTHS \$15,000

FLEMINGER, A; STUDY OF EPIPLANKTONIC POPULATIONS OF CALA-
 NOID COPEPODS (B032076); 24 MONTHS \$46,000

COLORADO

UNIVERSITY OF COLORADO
 BOCK, CARL E; RELATIONSHIP OF TERRITORIALITY AND FOOD
 AVAILABILITY TO POPULATION REGULATION (B030917); 24 MONTHS
 \$30,000

CONNECTICUT

UNIVERSITY OF CONNECTICUT
 RETTENMEYER, CARL W; DISSERTATION RESEARCH. INFLUENCE
 OF VEGETATION AND TERRITORY ON AVIAN MATING SUCCESS
 (B031716); 24 MONTHS \$66,300

SCHULTZ, R JACK; EVOLUTION OF ALL-FEMALE FISHES (B033351
 X00); 12 MONTHS \$26,000

YALE UNIVERSITY
 THOMSON, KEITH S; STUDY OF THE LOBE-FINNED FISHES AND RE-
 LATED AMPHIBIA (B028841 X01); 12 MONTHS \$16,700

MILLER, RICHARD S; ECOLOGY OF INTERSPECIES COMPETITION
 (B028111 X01); 12 MONTHS \$20,700

REMINGTON, CHARLES L; DOCTORAL DISSERTATION RESEARCH ON
 POLLINATION SYSTEMS IN SOLIDAGO, AQUILEGIA AND CASTILLEJA
 (B030135); 24 MONTHS \$2,900

BORMANN, F H; HYDROLOGIC-NUTRIENT CYCLE INTERACTION IN
 UNDISTURBED AND MANIPULATED FOREST ECOSYSTEMS (B030988
 X00); 12 MONTHS \$34,600

MOROWITZ, HAROLD J; DOCTORAL DISSERTATION RESEARCH IN
 SYSTEMATICS OF THE MESOZOA AND EVOLUTION OF MULTICELLU-
 LAR ANIMALS (B031048); 24 MONTHS \$2,400

ASHMOLE, N PHILIP, AND MILLER, RICHARD S; DOCTORAL DISSER-
 TATION RESEARCH - POPULATION ECOLOGY OF CASSIN'S AUKLET
 (B031377); 12 MONTHS \$2,900

KIRSCH, JOHN A W; STUDIES IN MARSUPIAL SYSTEMATICS (B032061
 X00); 12 MONTHS \$15,700

LEYEN, DONALD A; GENE FLOW AND POPULATION STRUCTURE IN
 'PHLOX' (B032100 X00); 12 MONTHS \$29,600

JORDAN, PETER A; DOCTORAL DISSERTATION RESEARCH. ECOLOGI-
 CAL AND TAXONOMIC INVESTIGATIONS OF AN ENDANGERED SPE-
 CIES, THE RED WOLF (CANIS RUFUS) (B032149); 12 MONTHS \$2,800

LEVIN, DONALD A; DOCTORAL DISSERTATION RESEARCH. LOCAL DIFFERENTIATION IN 'LIATRIS CYLINDRACEA' (B034874); 18 MONTHS \$2,500

WEGENER, PETER P; BUBBLE INDUCED VERTICAL MASS TRANSPORT IN WATER (K03055 X00*); 12 MONTHS \$4,700

DISTRICT OF COLUMBIA

AMERICAN ASSOCIATION OF MUSEUMS

MCGRATH, KYRAN M; ADVISORY COMMITTEE FOR THE EVALUATION OF SYSTEMATIC BIOLOGY COLLECTIONS IN THE UNITED STATES (B034750); 24 MONTHS \$20,000

AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES

OLIVE, JOHN R; SECOND NATIONAL BIOLOGICAL CONGRESS (B034877*); 12 MONTHS \$18,000

GEORGETOWN UNIVERSITY

COLWELL, R R; SYSTEMATIC STUDY OF THE GENUS 'VIBRIO' (B031300 X00); 12 MONTHS \$38,000

NATIONAL ACADEMY OF SCIENCES

KELLERMANN, HENRY J; PARTIAL SUPPORT OF THE COMMITTEE FOR INTERNATIONAL ENVIRONMENTAL PROGRAMS (CJ10195 005*); 9 MONTHS \$10,000

SMITHSONIAN INSTITUTION

SHETLER, STANWYN G; FLORA NORTH AMERICA PROGRAM (B031715); 12 MONTHS \$29,500

CUATRECASAS, JOSE; TAXONOMIC STUDY OF NEOTROPICAL PHANEROGAMS (B032084 X00); 12 MONTHS \$25,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

OLIVER, R H; SUPPORT OF V GENERAL ASSEMBLY INTERNATIONAL BIOLOGICAL PROGRAM (CJ10098 015); 11 MONTHS \$20,000

DECARLO, M R; A STUDY OF EDIBLE LEGUMES (CJ10226); 18 MONTHS \$5,000

FLORIDA

FAIRCHILD TROPICAL GARDEN

TOMLINSON, PHILIP B; SYSTEMATIC STEM ANATOMY OF TROPICAL MONOCOTYLEDONS (B031844 X00); 12 MONTHS \$24,000

FLORIDA STATE UNIVERSITY

SHORT, ROBERT B; SENSORY STRUCTURES OF SCHISTOSOME CERCARIAE (TREMATODA) (B030903); 24 MONTHS \$30,000

ORGANIZATION FOR TROPICAL STUDIES

SPENCER, JACK T; COMPARATIVE ECOLOGICAL STUDY OF TROPICAL LOWLAND FOREST COMMUNITIES (B035592 001); 12 MONTHS \$192,900

UNIVERSITY OF FLORIDA

MATURO, FRANK J S JR; DOCTORAL DISSERTATION RESEARCH-SYSTEMATICS OF THE MARINE BRYOZOAN 'PARASMITTINA NITIDA' (L'ERRILL) (B031361); 24 MONTHS \$4,100

DEEVEY, EDWARD S; HISTORICAL ECOLOGY OF THE MAYA AREA (B031350); 12 MONTHS \$10,000

EMMEL, THOMAS C; CHROMOSOME EVOLUTION IN THE LEPIDOPTERA (B032131); 24 MONTHS \$28,000

UNIVERSITY OF MIAMI

PLISKE, THOMAS E, AND DODSON, CALAWAY H; CHEMICAL INTERACTION BETWEEN PLANTS AND INSECTS (B033997); 24 MONTHS \$30,000

UNIVERSITY OF FLORIDA-FLORIDA STATE MUSEUM

WEBB, S DAVID; PHYLOGENETIC STUDIES OF FRAGULIDAE AND OTHER QUASIRUMINANTS (B034500); 24 MONTHS \$18,000

UNIVERSITY OF MIAMI-SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES

PROVENZANO, ANTHONY J JR; SYSTEMATIC STUDIES ON HERMIT CRABS AND OTHER DECAPOD CRUSTACEANS (B037075 003); 12 MONTHS \$41,100

TAYLOR, DENNIS L; THE BASIS OF CELLULAR INTERACTION: ALGAL-INVERTEBRATE SYMBIOSIS (B019790 001); 24 MONTHS \$70,000

VOSS, GILBERT L; SYSTEMATICS OF THE CEPHALOPODS (B024894 X01); 12 MONTHS \$23,470

ROBINS, C RICHARD; SYSTEMATIC STUDIES OF OCEANIC FISHES OF THE FAMILIES OPHIDIIDAE, GOBIIDAE AND SERRANIDAE (B028140 X01); 12 MONTHS \$22,000

ROBINS, C RICHARD; DOCTORAL DISSERTATION RESEARCH- A REVISION OF THE SHARK GENUS MUSTELLUS (B030228); 12 MONTHS \$1,000

BAYER, FREDERICK M; SYSTEMATIC STUDIES OF THE OCTOCORALLIA OF THE WESTERN ATLANTIC OCEAN (B030741); 24 MONTHS \$30,100

GEORGIA

EMORY UNIVERSITY

MURDY, WILLIAM H; THE ROLE OF URBANIZATION IN PLANT EVOLUTION (B029601 X01); 12 MONTHS \$9,500

UNIVERSITY OF GEORGIA

ATYEO, WARREN T; SUPERSPECIFIC TAXA OF THE ANALGOIDEA (ACARINA) (B031505 001); 24 MONTHS \$32,000

JONES, SAMUEL B JR; SYSTEMATICS OF 'VERNONIA' (COMPOSITAE) (B030487 001); 24 MONTHS \$18,100

WIEGERT, RICHARD G; TROPHIC DYNAMICS OF THERMAL SPRING ECOSYSTEMS (B021355 001); 24 MONTHS \$70,500

JONES, S B JR; DISSERTATION RESEARCH ON THE SYSTEMATICS OF 'LYSIACHIA' (B030074); 18 MONTHS \$1,700

PLUMMER, GATHER L; DOCTORAL DISSERTATION RESEARCH- ANALYSIS OF LAND USE PATTERNS (B030383); 12 MONTHS \$600

JONES, SAMUEL B JR; DOCTORAL DISSERTATION RESEARCH- VEGETATION DYNAMICS (B032887); 12 MONTHS \$1,500

ROSS, HERBERT H; DOCTORAL DISSERTATION RESEARCH- A REVISION OF THE GENUS 'CHEUMATOPSYCHE' IN NORTH AMERICA (B033044); 12 MONTHS \$1,600

COLEMAN, JAMES R; SYSTEMATICS OF VERBESINA COMPOSITAE (B031129); 24 MONTHS \$16,200

UNIVERSITY OF GEORGIA-AGRICULTURAL EXPERIMENT STATION

HANLIN, RICHARD T, AND LUTTRELL, E S; DEVELOPMENTAL MORPHOLOGY OF ASCOMYCETES AND THEIR IMPERFECT STATES (B028668 X01); 12 MONTHS \$16,500

HAWAII

BERNICE P BISHOP MUSEUM

GRESSITT, J LINSLEY; BIOGEOGRAPHIC RELATIONSHIPS OF NEW GUINEA AND NEW CALEDONIA (B019751 001); 24 MONTHS \$35,000

ST. JOHN, HAROLD; SUPPORT FOR PANDANUS RESEARCH (B017385 X01); 12 MONTHS \$7,900

SAMUELSON, G ALLAN; BIOSYSTEMATICS OF ALTICINAE, GENERA OF THE EASTERN HEMISPHERE (B034389); 24 MONTHS \$23,000

UNIVERSITY OF HAWAII

HARDY, D ELMO; DIPTERA OF HAWAII (B028603 X01); 12 MONTHS \$16,200

THEOBALD, WILLIAM L; COMPARATIVE ANATOMICAL AND DEVELOPMENTAL STUDIES IN UMBELLIFERAE (B030353); 21 MONTHS \$14,200

HARDY, D ELMO; PUBLICATION OF TWO MONOGRAPHS ON TEPHRITIDAE (N033057*); 12 MONTHS \$5,000

IDAHO

UNIVERSITY OF IDAHO

HORNOKER, MAURICE G, AND BIZEAU, ELWOOD G; ECOLOGY OF THE GREATER SANDHILL CRANE (B034382 X00); 12 MONTHS \$8,000

ILLINOIS

FIELD MUSEUM OF NATURAL HISTORY

INGER, ROBERT F; GRADUATE STUDIES IN SYSTEMATIC ZOOLOGY AND PALEONTOLOGY (B008788 001); 10 MONTHS \$21,700

BURGER, WILLIAM C; NEW FLORA OF COSTA RICA AND RELATED FIELD WORK (B028446 001); 24 MONTHS \$37,000

HERSHKOVITZ, PHILIP; MONOGRAPH OF NEW WORLD PRIMATES, VOLUME 2-CEBIDS (B030866); 24 MONTHS \$45,500

WILLIAMS, LOUIS O; FLORISTIC FIELD WORK IN CENTRAL AMERICA (B032190); 24 MONTHS \$29,000

DYBAS, HENRY; CARE AND USE OF SYSTEMATIC COLLECTIONS OF INSECTS AND OTHER ARTHROPODS (B033516 X00); 12 MONTHS \$50,600

SOLE, G ALAN; PURCHASE OF A SCANNING ELECTRON MICROSCOPE (B034521*); 24 MONTHS \$4,500

NORTHWESTERN UNIVERSITY

BROWN, FRANK A JR; INFLUENCE ON ORGANISMS OF VERY WEAK EXTRA-PHOTIC ELECTROMAGNETIC FIELDS (B031040); 24 MONTHS \$53,700

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

KLIMSTRA, W D; DOCTORAL DISSERTATION RESEARCH IN THE FIELD SCIENCES (B030195); 12 MONTHS \$3,900

UNIVERSITY OF CHICAGO

PARK, THOMAS; POPULATION ECOLOGY OF 'TRIBOLIUM' (B021846 X01); 12 MONTHS \$18,000

SCHOPF, THOMAS J M, AND GOOCH, JAMES L; SPECIATION IN THE SEA (B030870); 24 MONTHS \$47,000

RADINSKY, LEONARD B; MAMMALIAN BRAIN EVOLUTION (B031842); 24 MONTHS \$30,000

CARBER, EDWARD D; ENZYMES AND PROTEINS AS GENETIC AND TAXONOMIC TOOLS IN THE GENUS 'USTILAGO' (B032060); 24 MONTHS \$50,000

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

BARDAK, DAVID; CRETACEOUS TELEOSTEAN FISHES (B030848); 12 MONTHS \$15,100

TAYLOR, THOMAS N; ULTRASTRUCTURAL STUDIES OF CARBONIFEROUS SPORES (B030891); 24 MONTHS \$39,000

SPIESS, ELIOT B; GENETIC BASIS OF MATING ACTIVITY IN NATURAL POPULATIONS OF DROSOPHILA (B041404); 24 MONTHS \$43,200

UNIVERSITY OF ILLINOIS AT URBANA

PAYNE, WILLARD W; SYSTEMATICS AND EVOLUTION OF RAGWEEDS (B006009 002); 24 MONTHS \$30,900

PAYNE, WILLARD W; SYSTEMATIC STUDIES OF STOMATA (B040417); 24 MONTHS \$30,700

LEVINE, NORMAN D; SYSTEMATICS OF APICOMPLEXAN (C. SPOROZOAN?) PROTOZOA (B030000 X00); 12 MONTHS \$30,400

PAYNE, WILLARD W; DOCTORAL DISSERTATION RESEARCH ON TAXONOMIC STUDIES OF ASTER (B043116); 24 MONTHS \$1,900

DE WET, J M J; ORIGIN AND EVOLUTION OF CULTIVATED 'PEN-NISETUM' (B043302); 6 MONTHS \$1,000

WESTERN ILLINOIS UNIVERSITY

SINGER, SAMUEL; ENTOMOGENOUS EFFECTS OF BACILLI FOR THE BIOLOGICAL CONTROL OF MOSQUITOES (B043113); 24 MONTHS \$32,000

NORTHWESTERN UNIVERSITY-CHICAGO CAMPUS-MEDICAL SCHOOL

NADLER, CHARLES F; EVOLUTIONARY STUDIES OF HOLARCTIC MAMMALS (B043114 X00); 12 MONTHS \$25,000

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

DILCHER, DAVID L; THE EOCENE FLORAS OF SOUTHEASTERN NORTH AMERICA (B014303 001); 24 MONTHS \$30,000

FREY, DAVID G; LIMNOLOGY AND PLANKTON DYNAMICS OF A TROPICAL LAKE (B014051 001); 24 MONTHS \$17,500

NOLAN, VAL JR; DOCTORAL DISSERTATION RESEARCH- INFLUENCE OF VEGETATION AND TERRITORY ON AVIAN MATING SUCCESS (B041737); 24 MONTHS \$3,500

DILCHER, DAVID L; DOCTORAL DISSERTATION RESEARCH- EOCENE MICROFOSSIL FLORA (B043118); 24 MONTHS \$1,900

PURDUE UNIVERSITY

BROERSMA, DELMAR B; DISSERTATION RESEARCH ON SYSTEMATICS OF 'LEPTINOTARSA' (B040261); 24 MONTHS \$900

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

LERSTEN, NELS R; ANATOMY OF BACTERIAL LEAF NODULES IN THE RUBIACEAE (B040901); 24 MONTHS \$18,000

POHL, RICHARD W; TAXONOMIC STUDIES ON THE GRASS FLORA OF CENTRAL AMERICA (B042055); 24 MONTHS \$30,900

UNIVERSITY OF IOWA

DINGLE, HUGH; INSECT MIGRATION STRATEGIES (B000705 001); 24 MONTHS \$48,000

KANSAS

KANSAS STATE UNIVERSITY

ROBEL, ROBERT J; PESTICIDE, PARASITE, ENERGETIC AND BEHAVIORAL INTERACTIONS (B014010 001); 24 MONTHS \$62,900

ANDERSON, LORAN C; SYSTEMATICS AND ANATOMY OF CHRYSOTHAMNUS AND RELATED ASTERACEAE (B041996 X00); 12 MONTHS \$21,700

UNIVERSITY OF KANSAS

JOHNSTON, RICHARD F; ADAPTIVE SIGNIFICANCE OF SIZE VARIATION IN NATURAL POPULATIONS (B003781 001); 12 MONTHS \$19,600

HOFFMAN, ROBERT S; COHERENT AREA GRANT IN EVOLUTIONARY BIOLOGY (B003785 001); 10 MONTHS \$31,700

HOFFMANN, ROBERT S; SYSTEMATICS AND EVOLUTIONARY HISTORY OF THE MARMOTS (B041131 X01); 12 MONTHS \$14,000

HALL, E RAYMOND; DOCTORAL DISSERTATION RESEARCH- EVOLUTION OF THE GENUS 'CANIS' IN NORTH AMERICA (B040502); 12 MONTHS \$1,000

BYERS, GEORGE W; EVOLUTIONARY HISTORY OF MECOPTERA (B040837); 24 MONTHS \$24,900

HALL, E RAYMOND; CLASSIFICATION OF NORTH AMERICAN RECENT MAMMALS (B040969); 24 MONTHS \$40,000

MOORE, RAYMOND C, AND TEICHERT, CURT; TREATISE ON INVERTEBRATE PALEONTOLOGY (B041131 X00); 12 MONTHS \$66,600

LOUISIANA

LOUISIANA STATE UNIVERSITY MED CTR NEW ORLEANS

DESSAUER, HERBERT C; MOLECULAR DATA AND REPTILIAN SYSTEMATICS (B007224 X00); 12 MONTHS \$16,500

TULANE UNIVERSITY

WELDEN, A L; SYSTEMATICS OF THE STEREOACEAE AND CULTURAL CHARACTERS OF TROPICAL AND SUBTROPICAL APHYLLOPHORALES (B044998 X00); 12 MONTHS \$10,800

LOUISIANA STATE UNIVERSITY, BATON ROUGE-AGRICULTURAL EXPERIMENT STATION

HOLLIS, JOHN P, AND PATRICK, WILLIAM H; CHEMICAL BEHAVIOR AND BIOLOGICAL EFFECTS OF SULFIDE COMPOUNDS IN FLOODED SOILS, SWAMPS AND MARSHES (B040633 X01); 12 MONTHS \$22,000

TULANE UNIVERSITY-SCHOOL OF MEDICINE

ESSLINGER, JACK H; SYSTEMATICS OF THE FILARIAL PARASITES OF NEOTROPICAL MAMMALS (B040844); 24 MONTHS \$25,300

MARYLAND

CATONSVILLE COMMUNITY COLLEGE

KING, ROBERT M; A GENERIC ANALYSIS OF THE TRIBE EUPATORIEAE (COMPOSITAE) (B040304 002); 6 MONTHS \$8,500

UNIVERSITY OF MARYLAND, COLLEGE PARK

HIGHTON, RICHARD; SYSTEMATIC STUDIES ON THE SALAMANDERS OF THE GENUS PLETHODON (B018544 X01); 12 MONTHS \$17,600

CORLISS, JOHN O; SYSTEMATICS AND EVOLUTION OF CILIATE PROTOZOA (B047050 X01); 12 MONTHS \$19,300

HIGHTON, RICHARD; DISSERTATION RESEARCH- ECOLOGICAL INTERACTIONS OF SALAMANDERS (B040941); 24 MONTHS \$6,200

STERN, WILLIAM L; COMPARATIVE ANATOMY AND SYSTEMATICS OF WOODY SAXIFRAGACEAE (B040869 X00); 12 MONTHS \$15,000

MORSE, DOUGLAS H; THE ROLES OF SOCIAL BEHAVIOR, RESOURCE SUPPLY, AND VEGETATION IN HABITAT UTILIZATION (B041005); 24 MONTHS \$20,000

MASSACHUSETTS

AMHERST COLLEGE

FISHER, STUART G; METABOLISM OF THE FORT RIVER ECOSYSTEM, MASSACHUSETTS (B043117); 24 MONTHS \$35,000

BOSTON UNIVERSITY

HUMES, ARTHUR G; PARASITIC COPEPODA (CRUSTACEA) FROM INVERTEBRATES AND FISHES (B004381 X00); 12 MONTHS \$22,200

HARVARD UNIVERSITY

WILLIAMS, ERNEST E; INTER AND INTRA-SPECIES DIFFERENCE AND INTERACTION IN NEW WORLD SAURIANS (B019801 X01); 12 MONTHS \$90,700

KUMMEL, BERNHARD; PROBLEM OF EXTINCTIONS AND THE EVOLUTIONARY RADIATION OF LOWER TRIASSIC AMMONITES (B042007 X01); 12 MONTHS \$11,800

CROMPTON, ALFRED W; ORIGIN OF MAMMALS AND THE INTERRELATIONSHIPS OF MESOZOIC MAMMALS (B040788); 24 MONTHS \$40,000

COHEN, JOEL E; MATHEMATICAL MODELS OF SELECTION AND INTERACTION AMONG POPULATIONS (B041019); 24 MONTHS \$28,000

CARPENTER, FRANK M; EVOLUTIONARY MORPHOLOGY OF THE LOCOMOTORY SYSTEM OF COLEOPTERA (B041117); 24 MONTHS \$30,000

PATTERSON, BRYAN; PLEISTOCENE MAMMALS OF NORTH AMERICA (B041287); 24 MONTHS \$40,000

PATTERSON, BRYAN; THE VERTEBRATE PALEONTOLOGY OF TROPICAL SOUTH AMERICA (B042439 X00); 12 MONTHS \$15,800

UNIVERSITY OF MASSACHUSETTS, AMHERST

BIERHORST, DAVID W; MORPHOLOGY AND PHYLOGENY OF FERNS (B013903 002); 24 MONTHS \$22,700

GALINAT, WALTON C; EVOLUTION OF THE AMERICAN MAYDEAE (B015787 001); 24 MONTHS \$37,900

KLEKOWSKI, EDWARD J JR; PTERIDOPHYTE GENETICS AND EVOLUTION (B041990); 24 MONTHS \$29,700

WILLIAMS COLLEGE

GRANT, WILLIAM C JR; PESTICIDE EFFECTS ON THE BEHAVIOR AND ECOLOGY OF HERMIT CRABS (B041548); 36 MONTHS \$18,100

HARVARD UNIVERSITY-HERBARIUM

ROLLINS, REED C; POPULATION DIVERSITY AND SPECIES DIFFERENTIATION IN LEAVENWORTHIA (B003073); 24 MONTHS \$46,700

WOOD, CARROLL E JR; A GENERIC FLORA OF THE SOUTHEASTERN UNITED STATES (B004459 X00); 12 MONTHS \$44,700

NEVING, LORIN I JR; FLORA OF VERACRUZ (B040867 X01); 12 MONTHS \$33,800

TRYON, ROLLA M, AND TRYON, ALICE F; TAXONOMIC AND EVOLUTIONARY STUDIES OF THE AMERICAN TREE FERNS (B041170); 24 MONTHS \$40,200

NEVING, LORIN I JR; SUPPORT OF BOTANICAL SYSTEMATIC COLLECTIONS AT HARVARD UNIVERSITY (B043836 X00); 12 MONTHS \$180,000

MICHIGAN

HOPE COLLEGE

BRADY, A' LEN R; ECOLOGY, DISTRIBUTION AND BEHAVIOR OF OXYPODIAE AND LYCOSIDAE (ARACHNIDA- ARANEAE) (B013925 001); 24 MONTHS \$19,000

MICHIGAN STATE UNIVERSITY

MANNY, BRUCE A, AND WETZEL, ROBERT G; DISSOLVED ORGANIC NITROGEN IN LAKES (B042890 X01); 12 MONTHS \$31,600

LAUFF, GEORGE H; FRESHWATER ECOSYSTEMS (B041018 X00); 12 MONTHS \$120,000

WOLK, COLEMAN P; DEVELOPMENT, FOR FIELD AND LABORATORY STUDIES, OF A GAS-CHROMATOGRAPHIC ASSAY FOR HETEROCYST (B041943); 12 MONTHS \$18,900

LAUFF, GEORGE H; STRUCTURE AND STABILITY OF THE GULL LAKE ZOOPLANKTON COMMUNITY (B043337); 30 MONTHS \$60,000

UNIVERSITY OF MICHIGAN

MILLER, ROBERT R; SYSTEMATICS AND EVOLUTION OF POECILIID AND RELATED FISHES (B004878 X04); 12 MONTHS \$18,300

HAIRSTON, NELSON G; GRADUATE TRAINING IN SYSTEMATIC AND EVOLUTIONARY BIOLOGY (B039888 001); 10 MONTHS \$36,000

MCCULLOUGH, DALE R; DEER POPULATION-VEGETATION INTERACTIONS ON THE GEORGE RESERVE (B048822 X01); 12 MONTHS \$25,000

PAYNE, ROBERT B; POPULATION STRUCTURE AND EVOLUTIONARY RELATIONSHIPS IN AVIAN POPULATIONS (B049011 X01); 12 MONTHS \$9,000

DAVIS, MARGARET B; DOCTORAL DISSERTATION RESEARCH IN EDAPHIC CONTROL OF VEGETATION (B036211); 12 MONTHS \$6,000

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MACURDA, DONALD B JR; THE QUANTITATIVE PHYLETICS OF THE PHYSETOCRINID CRINOIDS (B039848); 12 MONTHS \$8,000

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MCVAUGH, ROGERS; VASCULAR FLORA OF JALISCO (B041133); 24 MONTHS \$19,400

HUBBELL, STEPHEN P; AGGRESSION AND ECOLOGICAL COMPETITION BETWEEN SYMPATRIC INSECTS (B033321); 24 MONTHS \$40,000

RHODES, F H T; OPERATIONAL SUPPORT FOR THE UNIVERSITY OF MICHIGAN BIOLOGICAL STATION (B041741); 16 MONTHS \$36,000

WAYNE STATE UNIVERSITY

GOODMAN, MORRIS; EFFECTS OF EVOLUTION ON PRIMATE MACROMOLECULES (B007484 X01); 12 MONTHS \$23,900

COOK, DAVID R; WATER MITES FROM NORTH AND CENTRAL AMERICA (B012375 001); 24 MONTHS \$22,200

WAYNE STATE UNIVERSITY-SCHOOL OF MEDICINE

GOODMAN, MORRIS; MOLECULAR SYSTEMATICS OF THE PRIMATES (B013686 001); 12 MONTHS \$23,000

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UNIVERSITY OF MINNESOTA

HALL, JOHN W; MEGASPORES OF CRETACEOUS HETEROSPOROUS FERNS (B014011 001); 24 MONTHS \$30,000

SHAPIRO, JOSEPH; KINETICS OF PHOSPHORUS AND NITROGEN UPTAKE AND GROWTH BY ALGAE AND BACTERIA (B013675 001); 24 MONTHS \$78,000

WETMORE, CLIFFORD M; THE ULTRASTRUCTURE OF NORTH AMERICAN HEPYACAE (B028595 X01); 12 MONTHS \$9,100

BARNWELL, FRANKLIN H; GENETIC DIFFERENCES BETWEEN TWIN SPECIES OF CRUSTACEANS (B031054); 24 MONTHS \$40,200

MISSISSIPPI

GULF COAST RESEARCH LABORATORIES

DAWSON, C E; SYSTEMATIC STUDIES OF THE FAMILIES DACTYLOSCOPIDAE AND GOBIIDAE (B010353 X00); 12 MONTHS \$8,500

MISSISSIPPI STATE UNIVERSITY

JACKSON, JEROME A; POPULATION BIOLOGY OF 'DENDROCOPOS BOREALIS' (B043384); 24 MONTHS \$25,000

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MISSOURI BOTANICAL GARDEN

RAVEN, PETER H; SUPPORT OF THE SYSTEMATIC COLLECTIONS AT THE MISSOURI BOTANICAL GARDEN (B043795 X02); 12 MONTHS \$120,000

CROAT, THOMAS B; ECOTAXONOMIC MANUAL FOR THE FLORA OF BARRO COLORADO ISLAND (B044308); 24 MONTHS \$30,000

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SEXTON, OWEN J; AN EXPERIMENTAL INVESTIGATION OF PREDATOR SEARCHING IMAGE AND PREY COLOR PATTERN POLYMORPHISM (B040130 X00); 12 MONTHS \$27,900

STALKER, HARRISON D; GENETIC POLYMORPHISM IN NATURAL POPULATIONS OF DROSOPHILA (B031030); 24 MONTHS \$60,000

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MONTANA STATE UNIVERSITY

PICKETT, JAMES M; CHEMOSTAT STUDIES OF NUTRIENT-LIMITED ALGA GROWTH (B041466); 24 MONTHS \$23,900

UNIVERSITY OF MONTANA

MILLER, CHARLES N; STRUCTURALLY-PRESERVED CONIFER CONES FROM NORTH AMERICA (B018747 001); 24 MONTHS \$34,000

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CREIGHTON UNIVERSITY

ANDREWS, RICHARD V; COMPARATIVE ANALYSIS OF HYPOPHYSEAL AND STEROID FACTORS RELATED TO POPULATION DYNAMICS (B048450); 24 MONTHS \$38,000

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KAUL, ROBERT B; DIAPHRAGMS IN AQUATIC PLANTS (B041880); 24 MONTHS \$27,900

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DARTMOUTH COLLEGE

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PRINCETON UNIVERSITY

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MACARTHUR, ROBERT, AND WILLIS, EDWIN O; ECOLOGICAL AND BEHAVIORAL STUDIES OF INSECTIVOROUS BIRDS (B039921); 24 MONTHS \$40,000

RUTGERS UNIVERSITY

FAIRBROTHERS, DAVID E; CHEMOSYSTEMATICS OF MENTHA AND CORNALES (B013802 001); 24 MONTHS \$33,300

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UNIVERSITY OF NEW MEXICO

DEGENHARDT, W G; DOCTORAL DISSERTATION RESEARCH IN CHEMOSYSTEMATICS (B030133); 18 MONTHS \$1,600

CRAWFORD, CLIFFORD S; COLD-HARDINESS DEVELOPMENT IN CENTIPEDES AND SCORPIONS (B031608); 24 MONTHS \$30,000

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ADELPHI UNIVERSITY

WEST, ROBERT M; PALEOFAUNAL STUDIES OF THE MIDDLE EOCENE BRIDGER FORMATION OF SOUTHWESTERN WYOMING (B020263 001); 24 MONTHS \$24,000

AMERICAN MUSEUM OF NATURAL HISTORY

TEDFORD, RICHARD H; CENOZOIC MAMMALS (B018274 X01); 12 MONTHS \$24,000

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MOORE, HAROLD E; STUDIES TOWARD A GENERA PALMARUM (B04044 X01); 11 MONTHS \$42,900

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MICKEL, JOHN T; *PTERIDOPHYTE FLORA OF THE STATE OF OAXACA, MEXICO* (B030658 X00); 12 MONTHS \$16,900

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IRWIN, HOWARD S; *REVISION OF THE GENUS DECLIEUXIA (RUBIACEAE): DOCTORAL DISSERTATION RESEARCH* (B031978); 12 MONTHS \$1,500

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HAPP, GEORGE M, AND UNDERWOOD, GRAHAM; *SYMBIOTIC INTERACTION BETWEEN BARK BEETLE AND FUNGUS* (B019504 X01); 12 MONTHS \$26,200

PERLMUTTER, ALFRED; *ENVIRONMENT RELATED TO DISEASE RESISTANCE OF FISHES* (B031147); 24 MONTHS \$52,000

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DUKE UNIVERSITY

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BILLINGS, W D; *DOCTORAL DISSERTATION RESEARCH - ECOLOGY OF 'ESPELETIA' IN THE VENEZUELAN HIGH ANDES* (B034884); 18 MONTHS \$4,000

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RADFORD, ALBERT E; *VASCULAR FLORA OF THE SOUTHEASTERN UNITED STATES* (B008303 002); 12 MONTHS \$18,500

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COYLE, FREDERICK A; *SYSTEMATICS AND NATURAL HISTORY OF THE SPIDER GENUS 'ALIATYPUS'* (B031128); 24 MONTHS \$12,200

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SCHWARTZ, FRANK J; *DISSERTATION RESEARCH- SYSTEMATICS AND COMPARATIVE BIOLOGY OF THE GENUS DIPLECTRUM (PISCES)* (B034790); 12 MONTHS \$1,800

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MIAMI UNIVERSITY

ESHBAUGH, W HARDY; *BIOSYSTEMATICS AND EVOLUTION OF THE 'CAPSICUM PUBESCENS' COMPLEX* (B031832); 24 MONTHS \$17,300

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COLINVAUX, PAUL A; *ECOLOGICAL STUDIES OF THE GALAPAGOS ISLANDS* (B030965 X01); 12 MONTHS \$51,900

MACIOR, LAZARUS W; *DYNAMICS OF INSECT-MEDIATED BREEDING SYSTEMS IN ANGIOSPERMS* (B031960 X01); 12 MONTHS \$15,400

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UNIVERSITY OF OKLAHOMA

SCHNELL, GARY D; *AN ANALYSIS OF THE COVARIANCE OF PATTERNS OF GENIC AND MORPHOLOGIC VARIATION IN NATURAL POPULATIONS* (B030811); 12 MONTHS \$18,200

SCHNELL, GARY; *DOCTORAL DISSERTATION RESEARCH- SYSTEMATICS AND ECOLOGY OF KANGAROO RATS* (B033062); 12 MONTHS \$3,600

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OMAN, PAUL; *PHYLOGENY AND DISTRIBUTION OF NEARCTIC AND PALEARCTIC LEAFHOPPERS* (B018282 001); 12 MONTHS \$10,600

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ACADEMY OF NATURAL SCIENCE OF PHILADELPHIA

DROUET, FRANCIS; *REVISION OF THE NOSTOCACEAE WITH TORULOSE IRICHOMES* (B018545 001); 24 MONTHS \$34,200

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SCHUYLER, ALFRED E, AND WEARS, JAMES A; *CARE AND MAINTENANCE OF THE ACADEMY HERBARIUM* (B033797 X00); 12 MONTHS \$46,700

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BROWN UNIVERSITY

DICK, ESTHER A; STUDIES IN THE GENUS *LECCINUM* (B031200); 12 MONTHS \$3,500

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SOUTH DAKOTA STATE UNIVERSITY

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PETERSEN, RONALD H; THE GENUS 'RAMARIA' IN NORTH AMERICA (B041104); 24 MONTHS \$21,500

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SCHAFFNER, JOSEPH C; DISSERTATION RESEARCH - A SYSTEMATIC REVISION OF THE GENUS *ZELUS* (HEMIPTERA) (B042866); 6 MONTHS \$1,000

SCHAFFNER, JOSEPH C; DISSERTATION RESEARCH - A SYSTEMATIC REVISION OF THE GENUS *ZELUS* (HEMIPTERA) (B042866 001); \$200

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TURNER, B L; DOCTORAL DISSERTATION RESEARCH - NORTH AMERICAN - SOUTH AMERICAN DESERT DISJUNCTS IN HYMENOPTERS (B040230); 12 MONTHS \$1,900

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GOULD, FRANK W; SYSTEMATIC GRASS STUDIES AT THE KEW HERBARIUM (B042948); 12 MONTHS \$1,350

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WEBER, DARPELL J, ANDERSEN, W R, HESS, W M, AND VERNON, L P; EFFECT OF SALINITY ON CELL ORGANELLES AND THE PHOTOSYNTHETIC PROCESS IN HALOPHYTES (B041047); 24 MONTHS \$30,000

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ROBISON, RICHARD A; AGNOSTID TRILOBITES OF NORTH AMERICA (B004745 001); 24 MONTHS \$33,000

WIENS, DELBERT; MONOGRAPHIC STUDIES ON LORANTHACEAE AND VISCACEAE (B047272 002); \$3,600

GAUFIN, ARDEN R; ECOLOGY OF STONEFLIES (PLECOPTERA) OF THE INTERMOUNTAIN REGION (B041155); 24 MONTHS \$16,700

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SKUJINS, JOHN J; SYMPOSIUM ON ENVIRONMENTAL BIOGEOCHEMISTRY (B043218); 24 MONTHS \$7,000

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WINDHAM COLLEGE

TSENG, CHARLES C; COMPARATIVE PALYNOLOGICAL STUDIES IN ARALIACEAE (B041288); 24 MONTHS \$15,400

TSENG, CHARLES C; COMPARATIVE PALYNOLOGICAL STUDIES IN ARALIACEAE (B041288 001); \$5,100

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ROANOKE COLLEGE

JENKINS, ROBERT E; STUDIES OF THE CATOSTOMID FISHES (B041035); 24 MONTHS \$9,400

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KELLY, MAHLON G; STREAM EUTROPHICATION INDICES FROM FIELD MEASURED AND SIMULATED BIOLOGICAL ENERGY BUDGETS (B042914); 24 MONTHS \$24,100

VIRGINIA POLYTECHNIC INSTITUTE

KOSZTARAB, MICHAEL; SYSTEMATIC STUDY OF SCALE INSECTS (B006885 X03); 12 MONTHS \$16,600

WASHINGTON

UNIVERSITY OF WASHINGTON

TSUKADA, MATSUO; PAST VEGETATION AND DYNAMICS OF LAKE ECOSYSTEMS (B015300 001); 24 MONTHS \$72,000

EDMONDSON, W T, ORIAN, G H, PAINE, R T, KOHN, A J, AND PAULSON, D R; GRADUATE STUDENT RESEARCH AND TRAINING IN ECOLOGY (B040978 001); 9 MONTHS \$25,000

GARA, ROBERT I, AND HRUTFIORD, BJORN F; FLIGHT AND HOST SELECTION BEHAVIOR OF THE MAHOGANY SHOOT BORER (B042112 X01); 12 MONTHS \$10,000

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ORIAN, GORDON H; CONFERENCE ON ECOSYSTEM STABILITY (B040522); 6 MONTHS \$1,200

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HASKINS, EDWARD F; LIFE HISTORY OF THE MYXOMYCETE 'ECHINOSTELIUM' (B041244); 24 MONTHS \$25,000

PAINE, ROBERT T; DOCTORAL DISSERTATION RESEARCH - COEXISTENCE IN SYMPATRIC HERMIT CRABS (B041536); 24 MONTHS \$3,100

KOHN, ALAN J; INDO-WEST PACIFIC MARINE MOLLUSKS OF THE FAMILY CONIDAE (B041105 X00); 12 MONTHS \$22,000

KOHN, ALAN J; INDO-WEST PACIFIC MARINE MOLLUSKS OF THE FAMILY CONIDAE (B041105 X01); \$3,875

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ORIAN, GORDON H; DOCTORAL DISSERTATION RESEARCH - BIRD COMMUNITY STRUCTURE IN ALDER FORESTS (B041883); 6 MONTHS \$1,500

WASHINGTON STATE UNIVERSITY

BERRYMAN, ALAN A, AND PIENAAR, LEON V; COMPUTER SIMULATION OF POPULATION DYNAMICS OF *SCOLYTUS VENTRALIS* INFESTING *ABIES GRANDIS* (B040752); 24 MONTHS \$36,200

AKRE, ROGER D; THE BIOLOGY AND BEHAVIOR OF INSECT PREDATORS (B040922); 24 MONTHS \$17,300

WISCONSIN

LAWRENCE UNIVERSITY

YOUNG, ALLEN M; ECOLOGICAL STUDIES OF NEOTROPICAL CICALAS (B043060); 36 MONTHS \$42,500

UNIVERSITY OF WISCONSIN, MADISON

SENN, HAROLD A; OPERATION OF THE BIOTRON (B00471 005); 24 MONTHS \$345,000

EVERT, RAY F; COMPARATIVE STRUCTURE OF THE PHLOEM IN LOWER VASCULAR PLANTS (B008110 001); 24 MONTHS \$50,000

KEITH, LLOYD B; ANALYSES OF CERTAIN POPULATION PHENOMENA DURING A CYCLIC PEAK OF SNOWSHOE HARES (B018431 001); 12 MONTHS \$2,000

MAGNUSON, JOHN J; BEHAVIOR AND SURVIVAL OF FRESHWATER FISHES EXPOSED TO SEVERE OXYGEN DEPLETION (B018212 001); 12 MONTHS \$26,000

- BROCK, THOMAS D; MICROBIAL ECOLOGY OF THERMAL ENVIRONMENTS (B040275); 12 MONTHS \$27,800
- MITCHELL, JOHN E; EFFECT OF SOIL ABRATION ON ROOT EXUDATION AND FUNGAL DETERIORATION OF ROOT TISSUE (B040883); 24 MONTHS \$48,000
- PORTER, V P, MITCHELL, J W, AND BECKMAN, W A; ENERGY BUDGETS, MICROMETEOROLOGY AND PREDATOR-PREY INTERACTIONS (B041047); 12 MONTHS \$35,000
- THOMSON, JOHN W; STUDIES ON AMERICAN ARCTIC LICHENS (B041113 X00); 12 MONTHS \$3,300
- HASLER, ARTHUR D; LIMNOLOGICAL INTERACTIONS STRESSING TEMPERATURE EFFECTS (B041672); 24 MONTHS \$60,400
- STAIRS, GERALD R; DNA SEQUENCE IN SELECTED POPULATIONS OF 'PINUS BANKSIANA' (B041692); 24 MONTHS \$26,900
- FITCH, WALTER M; SPECIAL APPROACHES TO THE STUDY OF EVOLUTIONARY RELATIONSHIPS (B042274 X00*); 12 MONTHS \$33,000
- KEITH, LLOYD B; POPULATION DYNAMICS IN A SNOWSHOE HARE DECLINE (B043480 X00); 12 MONTHS \$31,000
- HASLER, ARTHUR D; WORKSHOP ON ECOLOGICAL RESEARCH PRIORITIES IN THE TROPICS (C718000); 16 MONTHS \$79,084
- HASLER, ARTHUR D; SUPPORT FOR INTERNATIONAL ASSOCIATION FOR ECOLOGY (F041724 X01*); 12 MONTHS \$3,060

WYOMING

UNIVERSITY OF WYOMING

- LAVIGNE, ROBERT J; COMPARATIVE BEHAVIOR OF THE DIPTERAN FAMILY ASILIDAE (B041617 X01); 12 MONTHS \$10,300
- CRAWFORD, DANIEL J; SYSTEMATIC STUDIES ON WESTERN NORTH AMERICAN SPECIES OF 'CHENOPODIUM' (B043193 X01); 12 MONTHS \$8,900
- BOYD, DONALD W, AND NEWELL, NORMAN D; PERMIAN BIVALVE MOLLUSCS FROM THE WESTERN UNITED STATES (B040715); 24 MONTHS \$24,000
- REEDER, JOHN R, AND CRAWFORD, DANIEL J; DOCTORAL DISSERTATION RESEARCH- A BIOSYSTEMATIC STUDY OF 'SALIX' SECTIONS 'CORDATAE' AND 'COMMUTATAE' (B043470); 24 MONTHS \$4,200

PHYSIOLOGICAL PROCESSES

ALABAMA

UNIVERSITY OF ALABAMA IN BIRMINGHAM

- HIRAMOTO, RAYMOND N; CELLULAR ANTIBODY RESPONSE (B013804 002); 12 MONTHS \$15,000
- SACHS, GEORGE, AND SHOEMAKER, R L; MICROELECTRODE STUDIES OF NECTURUS GASTRIC MUCOSA (B041073); 24 MONTHS \$40,000

TUSKEGEE INSTITUTE-GEORGE WASHINGTON CARVER FOUNDATION

- HENDERSON, JAMES H M; ISOENZYMOUS NATURE OF IAA-OXIDASE FROM THE COLEOPTILES OF AVENA (B040886); 24 MONTHS \$12,200
- TUSKEGEE INSTITUTE-SCHOOL OF VETERINARY MEDICINE
- SIDDIQUE, IRTAZA H; STUDIES ON THE PATHOGENESIS OF LISTERIAL INFECTIONS (B041868 001); 24 MONTHS \$25,300
- VERMA, O P, AND WALKER, C A; IN VIVO STUDIES ON THE AVIAN OVIDUCT MOTILITY (B043371); 24 MONTHS \$25,000

ARIZONA

ARIZONA STATE UNIVERSITY

- REEVES, HENRY C; PHYSICO-CHEMICAL STUDIES OF NADP ISOCITRATE DEHYDROGENASE (B04285 001); 24 MONTHS \$45,000

UNIVERSITY OF ARIZONA

- JENSEN, RICHARD G; CONTROL OF CELLULAR PROCESSES DURING PHOTOSYNTHESIS (B047451 001); 24 MONTHS \$27,000
- UNIVERSITY OF ARIZONA-COLLEGE OF MEDICINE
- DANTZLER, WILLIAM H; EXCRETORY FUNCTION IN VERTEBRATES (B02882 X01); 12 MONTHS \$15,700
- CHYAPIL, MILOS; PHYLOGENY OF PROCOLLAGEN PROLINE HYDROXYLASE (B043928); 24 MONTHS \$43,000

ARKANSAS

UNIVERSITY OF ARKANSAS-UNIVERSITY OF ARKANSAS MEDICAL CENTER

- WADKINS, CHARLES L; OXIDATIVE PHOSPHORYLATION STUDIES (B013583 001); 24 MONTHS \$55,000
- PAULY, JOHN E, AND SCHEVING, LAWRENCE E; INTERNATIONAL MEETING OF THE SOCIETY FOR THE STUDY OF BIOLOGICAL RHYTHMS (B040401); 18 MONTHS \$1,200
- SMITH, W GRADY; AMINO ACID METABOLISM IN BACTERIA (B043908 X00); 12 MONTHS \$24,000

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

- WIERSMA, C A G; NERVOUS SYSTEM OF CRUSTACEANS AND OTHER ARTHROPODS (B006831 X02); 12 MONTHS \$41,800

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

- ANDREOLI, ANTHONY J; STUDY OF ENZYME PATTERNS IN 'BACILLUS MEGATERIUM' DURING SPORULATION (B013774 001); \$2,800

CITY OF HOPE MEDICAL CENTER

- LEVINE, RACHMIEL; MECHANISMS UNDERLYING THE ANABOLIC EFFECTS OF INSULIN (B040910); 24 MONTHS \$66,200

OCCIDENTAL COLLEGE

- MORTON, MARTIN L; ANNUAL CYCLE OF LIPID RESERVES (B021146 X01); 12 MONTHS \$8,800

PROFESSIONAL STAFF ASSN OF LOS ANGELES COUNTY

- RUSSELL, FINDLAY E; ELECTRON MICROSCOPY OF THE BLACK WIDOW SPIDER AND SCORPION VENOM GLANDS (B017573 001); \$1,100
- RUSSELL, FINDLAY E; ELECTRON MICROSCOPY, AND CHEMICAL AND PHYSIOPHARMACOLOGICAL PROPERTIES OF THE SPIDER VENOM APPARATUS (B017573 002); 24 MONTHS \$38,000

SALK INSTITUTE FOR BIOLOGICAL STUDIES

- GOSPODAROWICZ, DENIS J; INTERACTION OF LH WITH LUTEAL CELLS (B041113); 12 MONTHS \$40,000

SCRIPPS CLINIC AND RESEARCH FOUNDATION

- DANGLIKER, WALTER B; FLUORESCENT HAPTEN-ANTIHAPTEN REACTIONS (B041811); 24 MONTHS \$60,000

STANFORD UNIVERSITY

- RAY, PETER M; CELL WALL METABOLISM AND AUXIN ACTION (B043927 X00); 12 MONTHS \$58,000

UNIVERSITY OF CALIFORNIA, BERKELEY

- HASSID, WILLIAM Z; ENZYMIC REACTIONS OF SUGAR NUCLEOTIDES (B011819 001); 24 MONTHS \$73,000
- YARWOOD, C E; PREDISPOSITION TO DISEASE IN PLANTS (B028182 001); 24 MONTHS \$40,000
- ARNON, DANIEL I; BIOENERGETIC AND SYNTHETIC MECHANISMS IN PHOTOSYNTHESIS (B040491 X00); 12 MONTHS \$70,600
- JENSEN, WILLIAM A; THE ROLE OF MEMBRANES IN DOUBLE FERTILIZATION IN ANGIOSPERMS (FLOWER PLANTS) (B041101); 24 MONTHS \$68,500
- TANADA, Y; RESISTANCE OF INSECT AND VECTOR TO INFECTIOUS DISEASE (B042185); 24 MONTHS \$52,000

UNIVERSITY OF CALIFORNIA, DAVIS

- KOSUGE, TSUNE; REGULATION OF AROMATIC AMINO ACID BIOSYNTHESIS IN HIGHER PLANTS (B015396 001); 24 MONTHS \$37,300
- STUMPF, PAUL K; ENZYMIC MECHANISMS INVOLVED IN LIPID METABOLISM IN HIGHER PLANTS (B019733 X02); 14 MONTHS \$42,800
- CONN, ERIC E; ENZYMIC ASPECTS OF CYANOGENIC GLYCOSIDE BIOSYNTHESIS (B040419 X00); 12 MONTHS \$22,000
- SMITH, ROBERT E; NEUROHUMORAL CONTROL OF THERMOGENESIS IN BROWN ADIPOSE TISSUE (B040584); 24 MONTHS \$60,100
- CASTELFRANCO, PAUL A; CHLOROPHYLL BIOSYNTHESIS AND PLASTID DIFFERENTIATION IN CELL FREE ORGANELLE PREPARATIONS (B041267); 24 MONTHS \$54,000
- CURRY, DONALD L; FACTORS CONTROLLING INSULIN SECRETION (B043490); 24 MONTHS \$32,400
- DUNIWAY, JOHN M; WATER RELATIONS STUDIES ON PHYTOPHTHORA ROOT OF SAFFLOWER (B042802); 24 MONTHS \$30,000
- YANG, SHANG FA; MECHANISM AND REGULATION OF ETHYLENE BIOSYNTHESIS (B043907 X00); 12 MONTHS \$20,300
- EPSTEIN, EMANUEL; SALINITY AND SALT TRANSPORT IN PLANTS (B043324 X00); 12 MONTHS \$29,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

- GROSSMAN, MORTON I; PANCREATIC AND BILIARY PHYSIOLOGY (B007285 X02); 12 MONTHS \$13,300
- MUSCATINE, LEONARD; BIOCHEMISTRY AND PHYSIOLOGY OF PLANT-ANIMAL SYMBIOSIS (B011940 001); 24 MONTHS \$40,800
- ENGELMANN, FRANZ; REGULATION OF REPRODUCTION AND PROTEIN BIOSYNTHESIS IN INSECTS (B014965 001); 24 MONTHS \$62,000
- ATKINSON, DANIEL E; INTERACTIONS OF CYTOPLASMIC REGULATORY PARAMETERS WITH MITOSIS, ENZYME REPRESSION, AND DIFFERENTIATION (B028452 X01); 12 MONTHS \$29,200
- HAMNER, KARL C; THE BIOLOGICAL CLOCK AND PLANT REPRODUCTION (Bc 10608); 24 MONTHS \$56,270
- GORDON, MALCOLM S; STUDIES IN THE ECOLOGICAL PHYSIOLOGY OF AMPHIBIOUS FISHES (B041180); 12 MONTHS \$8,100
- LASCHELLES, JUNE; THE REGULATION OF TETRAPYRROLE SYNTHESIS AND ASSOCIATED COMPLEXES (B042113 X00); 12 MONTHS \$26,000
- GEISSMAN, THEODORE A; STUDIES IN PHYTOCHEMISTRY (B043372 X00); 12 MONTHS \$24,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

- CHRISPEELS, MAARTEN J; BIOSYNTHESIS OF CELL WALL GLYCOPROTEIN (B040275); 24 MONTHS \$35,000
- KAPLAN, NATHAN O, AND WITLITZ, BERNARD; MEMBRANE ASSOCIATED ENZYME SYSTEMS (B040885); 24 MONTHS \$38,000
- SPOONER, CHARLES E; CHEMICAL AND CELLULAR BASIS OF LOCOMOTOR ACTIVITY IN THE MARINE TELEOST (XYYJULIUS CALIFORNICA) (B043061); 24 MONTHS \$20,000

- UNIVERSITY OF CALIFORNIA, SANTA BARBARA**
 HOLMES, WILLIAM N; ENDOCRINE FACTORS ASSOCIATED WITH THE WATER AND ELECTROLYTE REGULATION IN BIRDS (B040404 001); \$3,700
 HOLMES, WILLIAM N; ENDOCRINE FACTORS ASSOCIATED WITH THE WATER AND ELECTROLYTE REGULATION IN BIRDS (B040404 002); \$7,100
 HOLMES, WILLIAM N; ENDOCRINE FACTORS ASSOCIATED WITH WATER AND ELECTROLYTE METABOLISM IN BIRDS (B040404 003); 24 MONTHS \$7,000
 CHAFFEE, ROWAND R J; PRIMATE THERMAL ACCLIMATION BIOCHEMISTRY AND PHYSIOLOGY (B041110); 24 MONTHS \$33,000
- UNIVERSITY OF SOUTHERN CALIFORNIA**
 BRODIE, ARNOLD F; PHOTOCATALYZED REACTION OF BIOENERGETIC ENZYMES (B041351 X00); 12 MONTHS \$37,100
- STANFORD UNIVERSITY-SCHOOL OF MEDICINE**
 ROSENQUIST, GRACE L. AND RAFFEL, SIDNEY; PHYLOGENY OF THE IMMUNE RESPONSE (B013714 001); 12 MONTHS \$15,000
- UNIVERSITY OF CALIFORNIA, DAVIS-AGRICULTURAL EXPERIMENT STATION**
 SPURR, ARTHUR R; SODIUM DISTRIBUTION IN THE TISSUES OF LYCOPERSICON SPECIES (B043041); 12 MONTHS \$4,300
- UNIVERSITY OF CALIFORNIA, DAVIS-SCHOOL OF MEDICINE**
 BENJAMINI, ELIEZER, AND SHIPRINE, MOSHE; THE PREFERENTIAL INDUCTION OF SPECIFIC CELL-MEDIATED IMMUNITY AND ITS APPLICATION TO TUMOR REGRESSION (B040417); 24 MONTHS \$40,000
- UNIVERSITY OF CALIFORNIA, LOS ANGELES-SCHOOL OF MEDICINE**
 WHITE, FRED N; CIRCULATORY REGULATION IN VERTEBRATES (B004324 001); 24 MONTHS \$34,600
 COOPER, EDWIN L; EVOLUTION OF CELLULAR IMMUNITY (B017787 001); 24 MONTHS \$34,000
 EISENBERG, ROBERT S; ANALYSIS OF THE SPATIAL SPREAD OF CURRENT IN STRUCTURES OF BIOLOGICAL SIGNIFICANCE (B041463 001); 12 MONTHS \$20,000
- UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY**
 SOMERO, GEORGE NICHOLLS; MOLECULAR MECHANISMS OF TEMPERATURE COMPENSATION IN FISHES (B041106); 24 MONTHS \$54,000
- UNIVERSITY OF CALIFORNIA, SAN FRANCISCO-SCHOOL OF MEDICINE**
 KEARNEY, EDNA B; SUCCINIC DEHYDROGENASE- ITS ROLE IN THE REGULATION OF ADAPTATION AND THE BIOSYNTHESIS OF ITS ACTIVE SITE (B0430078); 24 MONTHS \$32,800
- UNIVERSITY OF SOUTHERN CALIFORNIA-SCHOOL OF MEDICINE**
 JONES, MARY ELLEN; BIOSYNTHETIC AND TRANSFER REACTIONS (B041347); 12 MONTHS \$41,700
- UNIVERSITY OF THE PACIFIC-PACIFIC MARINE STATION**
 LOOSANOFF, VICTOR L; PROPAGATION OF THE AMERICAN OYSTER, CRASSOSTREA VIRGINICA (GMELIN) (B041456); 12 MONTHS \$9,900
- COLORADO**
- COLORADO STATE UNIVERSITY**
 HANCHEY, PENELOPE J; PATHOLOGICAL CHANGES IN PLANT CELL MEMBRANES (B040411); 24 MONTHS \$16,000
 HANAN, JOE J. AND SMITH, J L; TEMPERATURE IN REPRODUCTIVE STRUCTURES AND ITS EFFECT ON DEVELOPMENT AND REPRODUCTION (B041314); 24 MONTHS \$23,600
- UNIVERSITY OF COLORADO**
 GAMOW, RUSTEM IGOR; ADAPTATION IN PHYCOMYCES BY LASER MICROBEAM (B041049); 24 MONTHS \$30,000
- UNIVERSITY OF COLORADO-DENVER MEDICAL CENTER**
 KATSH, SEYMOUR; ISOLATION AND CHARACTERIZATION OF ASPERMATOGONIC ANTIGEN AND RESPECTIVE ANTIBODY (B041555 X00); 12 MONTHS \$40,000
- CONNECTICUT**
- UNIVERSITY OF CONNECTICUT**
 CHAPPLE, WILLIAM D; CENTRAL CONTROL OF THE HYDROSTATIC SKELETAL SYSTEM OF THE HERMIT CRAB ABDOMEN (B012368 001); 12 MONTHS \$12,300
 CLARK, NANCY B; PARATHYROID STRUCTURE AND FUNCTION IN REPTILES (B041554 X01); 12 MONTHS \$15,600
 ROMANO, ANTONIO H; THE COMPARATIVE PHYSIOLOGY OF SUGAR TRANSPORT IN MICROORGANISMS (B041514); 24 MONTHS \$33,600
 DOEG, KENNETH A; METABOLIC ALTERATIONS IN DEVELOPING POLYCYSTIC OVARY (B041463); 24 MONTHS \$23,000
- WESLEYAN UNIVERSITY**
 KIDDER, GEORGE W III; ENERGY TRANSFER IN GASTRIC ACID SECRETION (B004510 001); 24 MONTHS \$40,800
- YALE UNIVERSITY**
 RAMUS, J; PRODUCTION OF EXTRACELLULAR POLYSACCHARIDE BY A UNICELLULAR RED ALGA (B011414 001); 24 MONTHS \$30,000
- URIBE, ERNEST G; MEMBRANE FUNCTION IN ENERGY FLOW IN CHLOROPLASTS (B041432 001); 24 MONTHS \$34,700**
TRENCH, ROBERT K. AND PROVASOLI, LUIGI; CHLOROPLAST ENDOSYMBIOSIS AND BIOCHEMICAL AUTONOMY (B041476); 24 MONTHS \$30,000
- YALE UNIVERSITY-SCHOOL OF MEDICINE**
 KANTOR, FRED S; MECHANISM OF DELAYED HYPERSENSITIVITY (B041399 001); 24 MONTHS \$35,000
 FORBES, THOMAS R; ACTION AND LOCALIZATION OF PROGESTINS (B011714 001); 24 MONTHS \$48,400
- DISTRICT OF COLUMBIA**
- AMERICAN CHEMICAL SOCIETY**
 SCHULTZ, JULIUS; TRAVEL TO ATTEND SYMPOSIUM ON CHEMISTRY AND BIOLOGY OF HYDROXYLATION REACTIONS, WASHINGTON, D. C., SEPTEMBER 1971 (B030435); 8 MONTHS \$631
- GORDAS MEM INST OF TROPICAL & PREVENTIVE MED**
 STINEBAUGH, BOBBY J; SYSTEMIC ACIDOSIS DURING CALORIC DEPRIVATION (B040914); 12 MONTHS \$6,100
- NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL**
 YAGER, ROBERT H; PARTIAL SUPPORT OF THE INSTITUTE OF LABORATORY ANIMAL RESOURCES (C410174 002); 12 MONTHS \$22,000
 STEVENS, R B; SUPPORT OF THE COMMITTEE ON PHOTOBIOLOGY (C410222); 12 MONTHS \$10,000
- FLORIDA**
- FAIRCHILD TROPICAL GARDEN**
 BURD, STANLEY P; CONTROL OF CELL DIVISION AND EXPANSION BY ETHYLENE (B041414 001); \$1,000
- FLORIDA STATE UNIVERSITY**
 TSCHINKEL, WALTER R; ISOLATION AND CHARACTERIZATION OF THE SEX PHEROMONE OF THE MEALWORM BEETLE (B041488); 24 MONTHS \$21,600
- PAPANICOLAOU CANCER RESEARCH INSTITUTE**
 KOHEN, ELLI; MICROSPECTROFLUORIMETRIC STUDY OF ENZYME SUBSTRATE REACTIONS IN SINGLE LIVING CELLS (B040821); 24 MONTHS \$29,700
- UNIVERSITY OF FLORIDA**
 HUBBELL, DAVID H; MECHANISM OF INFECTION OF LEGUMES BY 'RHIZOBIUM' AND ITS RELATION TO SPECIFICITY OF NODULATION (B041307); 24 MONTHS \$24,400
- UNIVERSITY OF MIAMI**
 EVOY, WILLIAM H; ARTHROPOD MUSCLE RECEPTOR ORGANS IN CONTROL OF MOTOR COORDINATION (B040605); 24 MONTHS \$45,700
 LOEWENSTEIN, WERNER R; STUDY OF CELLULAR MEMBRANES (B041211); 4 MONTHS \$17,000
- UNIVERSITY OF SOUTH FLORIDA**
 FISHEL, CHARLES W; NATURE OF 'BORDETELLA PERTUSSIS' INDUCED HYPERSENSITIVITY TO HISTAMINE AND SEROTONIN (B041414 002); 24 MONTHS \$45,600
- UNIVERSITY OF MIAMI-SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES**
 COORSEY, KEITH E; METABOLIC STUDIES WITH MARINE MICROALGAE WITH SPECIAL REFERENCE TO PHOTOHETEROTROPHY (B041102); 24 MONTHS \$35,000
- UNIVERSITY OF MIAMI-SCHOOL OF MEDICINE**
 CATLEY, BRIAN J; BIOSYNTHESIS OF PULLULAN (B040356); 24 MONTHS \$18,900
- GEORGIA**
- UNIVERSITY OF GEORGIA**
 EAGON, ROBERT G; BACTERIAL TRANSPORT MECHANISMS (B006571 001); 24 MONTHS \$30,000
 CORMIER, MILTON J; CHEMISTRY AND ENZYMOLOGY OF BIOLUMINESCENCE (B042550 X01); 12 MONTHS \$39,800
 LEGALL, JEAN; STUDY OF THE ELECTRON TRANSFER CHAIN OF SULFATE REDUCING BACTERIA (B042918 X01); 12 MONTHS \$24,250
 TRITZ, GERALD J; ELUCIDATION OF THE QUINOLINIC ACID BIOSYNTHETIC PATHWAY IN 'ESCHERICHIA COLI' (B041463 X01); 12 MONTHS \$16,800
 FISHER, DONALD B; INTERCELLULAR TRANSPORT OF ORGANIC COMPOUNDS IN PLANTS (B041493 X00); 12 MONTHS \$27,800
 FINNERTY, WILLIAM R; MECHANISMS OF HYDROCARBON OXIDATION BY MICROORGANISMS (B041180); 24 MONTHS \$50,000
 CORMIER, MILTON J, HERCULES, DAVID M. AND LEE, JOHN; SYMPOSIUM ON CHEMILUMINESCENCE (B041752); 12 MONTHS \$2,000
- EMORY UNIVERSITY-YERKES REGIONAL PRIMATE RESEARCH CENTER**
 MARTIN, DAVID E; REPRODUCTIVE PHYSIOLOGY OF PRIMATES (B041349); 24 MONTHS \$34,600

MARTIN, DAVID E; *REPRODUCTIVE PHYSIOLOGY OF PRIMATES* (B011779 001); \$1,900
 NADLER, RONALD D; *EFFECT OF HORMONES ON BRAIN DIFFERENTIATION* (B011151); 12 MONTHS \$2,900

HAWAII

UNIVERSITY OF HAWAII
 KAMEMOTO, FRED I; *HYDROMINERAL REGULATION AND NEUROENDOCRINE ADAPTATION IN CRUSTACEANS* (B010511); 24 MONTHS \$44,000
 YAMAMOTO, HARRY Y; *THE FUNCTION OF CAROTENOIDS IN PHOTOSYNTHESIS* (B010018 X00); 12 MONTHS \$22,000
 UNIVERSITY OF HAWAII-SCHOOL OF MEDICINE
 WHITLOW, G CAUSEY; *BEHAVIORAL THERMOREGULATION IN MARINE MAMMALS* (B010117 X01); 12 MONTHS \$18,000
 GUILFORY, RICHARD J; *MECHANISM OF THE ENERGY LINKED TRANSHYDROGENASE* (B0100544); 12 MONTHS \$10,900

ILLINOIS

UNIVERSITY OF CHICAGO
 ROTH, LLOYD J; *SEMINAR ON THE USE OF STABLE ISOTOPES IN CLINICAL PHARMACOLOGY* (B011145); 12 MONTHS \$3,000
 UNIVERSITY OF ILLINOIS AT URBANA
 DICKINSON, DAVID B; *REGULATION OF METABOLISM IN GERMINATING POLLEN* (B001711 002); 24 MONTHS \$30,000
 HEATH, JAMES EDWARD; *COMPARATIVE STUDY OF TEMPERATURE REGULATION* (B011717 001); 24 MONTHS \$45,000
 GUNSALES, I C; *ISOPRENOID METABOLISM- REGULATION AND SPECIFICITY* (B011518 001); \$17,500
 WOOD, JOHN M; *MICROBIAL DEGRADATION OF AROMATIC NATURAL PRODUCTS AND BIODEGRADABLE INSECTICIDES AND HERBICIDES* (B011113 X01); 12 MONTHS \$20,000
 VOSS, EDWARD W JR; *PURIFICATION AND SEPARATION OF ANTI-BODY PRODUCING CELLS* (B011107); 24 MONTHS \$30,000
 GUNSALES, I C; *ISOPRENOID METABOLISM- REGULATION AND SPECIFICITY* (B011112 X00); 12 MONTHS \$50,000

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON
 GEST, HOWARD; *MECHANISMS OF REGULATION OF BIOSYNTHETIC METABOLISM IN BACTERIA* (B001733 X01); 12 MONTHS \$80,000
 RAMALEY, ROBERT F; *BIOCHEMISTRY OF BACTERIAL SPORULATION* (B011103 001); 24 MONTHS \$41,500
 RAMALEY, JUDITH A; *ADRENAL MATURATION AND FERTILITY* (B011112 001); 24 MONTHS \$25,000
 HAUROWITZ, FELIX; *BIOSYNTHESIS AND STRUCTURE OF ANTI-BODIES AND OTHER PROTEINS* (B011711 001); 12 MONTHS \$5,300
 SOJKA, GARY A; *REGULATION OF SYNTHESIS OF THE PHOTOCHEMICAL APPARATUS OF THE PHOTO-SYNTHETIC BACTERIUM, 'RHODOPSEUDOMONAS CAPSULATA'* (B010081); 24 MONTHS \$33,000
 KOCH, ARTHUR L; *PERMEASE IN ACTIVE TRANSPORT* (B012115); 24 MONTHS \$38,000

PURDUE UNIVERSITY

RUC, JOSEPH A. AND WILLIAMS, EDWIN B; *BIOCHEMICAL EXPRESSION OF GENETIC DETERMINANTS CONTROLLING DISEASE RESISTANCE IN PLANTS* (B011191 001); 24 MONTHS \$40,600
 REGNIER, FRED E; *CHEMICAL COMMUNICATION IN ANIMALS* (B010171 X00); 12 MONTHS \$21,200
 REGNIER, FRED E; *CHEMICAL COMMUNICATION IN ANIMALS* (B010171 X01); 12 MONTHS \$21,400
 DILLEY, RICHARD A; *BIOCHEMISTRY OF CHLOROPLAST MEMBRANES* (B010091); 24 MONTHS \$73,000
 HODGES, THOMAS K; *THE ENERGETICS OF ION TRANSPORT IN PLANTS* (B011032 X00); 12 MONTHS \$21,300
 GOLUB, EDWARD S; *FUNCTIONAL ONTOGENY OF THE IMMUNE RESPONSE* (B011149); 12 MONTHS \$35,000
 LEMBI, CAROLE A; *BIOCHEMICAL CHARACTERIZATION OF THE PLANT PLASMA MEMBRANE* (B011737); 24 MONTHS \$29,000

IOWA

UNIVERSITY OF IOWA

STAHLY, DONALD P; *METABOLISM AND CONTROL PROCESSES INVOLVED IN BACTERIAL SPORULATION* (B011101); 24 MONTHS \$38,000

KANSAS

KANSAS STATE UNIVERSITY
 LELAND, STANLEY E JR; *IN VITRO GROWTH REQUIREMENTS OF PARASITIC NEMATODES* (B007332 001); 24 MONTHS \$38,200
 UNIVERSITY OF KANSAS
 BOYER, EUGENE C; *EFFECTS OF POLLUTANTS AND OTHER CHEMICALS ON PROTOZOAN MOTILE BEHAVIOR* (B011616 001); 12 MONTHS \$10,000
 PARETSKY, DAVID; *STUDIES ON THE BIOCHEMISTRY AND PHYSIOLOGY OF HOST-PARASITE RELATIONSHIPS DURING RICKETTSIAL INFECTION* (B011814); 24 MONTHS \$60,000

UNIVERSITY OF KANSAS-UNIVERSITY OF KANSAS MEDICAL CENTER
 WOOD, JACKIE D; *FUNCTION OF THE ENTERIC NERVOUS SYSTEM* (B011118); \$20,100

KENTUCKY

UNIVERSITY OF KENTUCKY
 RODRIGUEZ, JUAN G; *CONFERENCE ON 'SIGNIFICANCE OF INSECT AND MITE NUTRITION'* (B011104); 12 MONTHS \$2,000

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE
 MEIER, ALBERT H; *TEMPORAL SYNERGISM OF PROLACTIN AND HYDROCORTISONE IN THE GULF KILLIFISH, FUNDULUS GRANDIS* (B010913 011); 24 MONTHS \$37,000
 LAMBREMONT, EDWARD N; *INSECT LIPIDS- STRUCTURE AND METABOLISM OF ETHER-AND ACYL-BONDED GLYCEROLIPIDS* (B011450); 24 MONTHS \$24,600

TULANE UNIVERSITY

FINGERMAN, MILTON; *ROLE OF SEROTONIN IN THE CONTROL OF COLOR CHANGES IN THE FIDDLER CRAB* (B011117 001); 24 MONTHS \$58,000

TULANE UNIVERSITY-SCHOOL OF MEDICINE

LESLIE, GERRIE ALLEN; *MODULATION OF IMMUNOGLOBULIN SYNTHESIS AND THE IMMUNE RESPONSE* (B011001); 24 MONTHS \$31,600

MAINE

UNIVERSITY OF MAINE, ORONO

GELINAS, DOUGLAS A; *THE BIOCHEMICAL BASIS FOR ELEVATED LEVELS OF INDOLEACETIC ACID OXIDASE INHIBITORS IN KNOTTED MUTANTS* (B010116); 24 MONTHS \$20,000

MARYLAND

GOUCHER COLLEGE

HABERMANN, HELEN M; *PIGMENT DEFICIENT MUTANTS OF HELIANTHUS ANNUUS* (B011180); 6 MONTHS \$2,500

JOHNS HOPKINS UNIVERSITY

NASON, ALVIN; *ELECTRON TRANSPORT SYSTEMS OF THE CHEMOAUTOTROPHIC NITRIFYING BACTERIA* (B011143 X00); 12 MONTHS \$30,000

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

BURCHARD, ROBERT P; *GLIDING MOTILITY IN MYXOCOCCUS XANTHUS* (B011111); 24 MONTHS \$22,900

JOHNS HOPKINS UNIVERSITY-SCHOOL OF HYGIENE & PUBLIC HEALTH

REISSIG, MAGDALENA; *ELECTRON MICROSCOPY OF SCHISTOSOMES* (B011837 001); 24 MONTHS \$50,000

SHIF, ILAN, AND BANG, FREDERICK B; *GENETIC RESISTANCE TO MOUSE HEPATITIS VIRUS* (B011171); 24 MONTHS \$32,000

SCHILLER, EVERETT L; *MORPHOGENESIS, CYTOCHEMISTRY AND METABOLISM OF LEISHMANIAE* (B011531); 24 MONTHS \$40,000

JOHNS HOPKINS UNIVERSITY-SCHOOL OF MEDICINE

MAYER, MANFRED M; *IMMUNOLOGICAL AND CHEMICAL STUDIES OF THE COMPLEMENT SYSTEM* (B007406 X01); 12 MONTHS \$42,800

SHIN, HYUN S; *FACTORS INFLUENCING THE PHAGOCYTTIC CAPABILITIES OF POLYMORPHONUCLEAR LEUCOCYTES* (B008111 001); 12 MONTHS \$34,700

UNIVERSITY OF MARYLAND, COLLEGE PARK-SCHOOL OF MEDICINE

GRENNELL, ROBERT G; *THE INHIBITION OF INHIBITION AND ITS ROLE IN REGULATION OF SENSORY PROCESSING IN THE CEREBRAL CORTEX* (B011042 001); 12 MONTHS \$3,000

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CHENIAE, GEORGE M; *MANGANESE CATALYST(S) OF PHOTOSYNTHETIC OXYGEN EVOLUTION- PHOTOACTIVATION OF THE CATALYST* (C701000); 12 MONTHS \$24,800

KOK, BESSEL; *RESEARCH IN PHOTOSYNTHESIS* (C705000); 36 MONTHS \$25,400

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BOSTON BIOMEDICAL RESEARCH INSTITUTE

SANADI, D RAO; *RESOLUTION AND RECONSTITUTION OF OXIDATIVE PHOSPHORYLATION* (B011111); 24 MONTHS \$36,000

BOSTON UNIVERSITY

CALLARD, IAN P; *REPTILIAN REPRODUCTIVE PHYSIOLOGY* (B011037); 12 MONTHS \$17,200

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LOWENSTEIN, JOHN M; *REGULATION OF FATTY ACID SYNTHESIS* (B011706 X01); 12 MONTHS \$15,000

GIBBS, MARTIN; *PATHWAY OF CARBOHYDRATE METABOLISM IN THE AUTOTROPHIC CELL WITH SPECIAL REFERENCE TO THE HIGHER PLANTS AND ALGAE* (B011116 X01); 12 MONTHS \$41,100

HALVORSON, HARLYN O; *BIOCHEMICAL AND BIOPHYSICAL INVESTIGATIONS OF PROTEIN SYNTHESIS* (B030093); 15 MONTHS \$45,500
 ABILES, ROBERT H; *FUNCTIONAL GROUPS AT ENZYME ACTIVE SITES AND DESIGN OF HIGHLY SPECIFIC ENZYME INHIBITORS* (B031938 X00); 12 MONTHS \$31,600

CHILDRENS HOSPITAL MEDICAL CENTER

ABRAHAM, SAMUEL; *LIPOGENESIS IN MAMMARY GLAND* (B032037); 24 MONTHS \$43,300

ENDOCRINE SOCIETY

WILHELM, ALFRED E; *FOURTH INTERNATIONAL CONGRESS OF ENDOCRINOLOGY* (B032743); 12 MONTHS \$3,000

HARVARD UNIVERSITY

PAPPENHEIMER, ALWIN M JR; *I. STUDIES ON PNEUMOCOCCAL ANTI-POLYSACCHARIDE ANTIBODIES II. BIOLOGY OF DIPHTHERIA AND OF THE DIPHTHERIA BACILLUS* (B018919 X01); 2 MONTHS \$5,400

BERLIN, RICHARD D; *TRANSFER OF PURINES BY ERYTHROCYTES TO NON-HEPATIC TISSUES* (B030418 X00); 12 MONTHS \$25,800

JENKINS, FARISH A JR; *A CINERADIOGRAPHIC STUDY OF LOCOMOTION AND POSTURE IN THREE PRIMITIVE MAMMALS* (B030724); 10 MONTHS \$1,000

BOGORAD, LAWRENCE; *THE METABOLISM OF PYRROLIC COMPOUNDS* (B031114); 24 MONTHS \$40,000

TORREY, JOHN G; *RHIZOBIAL NODULE INITIATION* (B031420); 24 MONTHS \$38,200

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BUCHANAN, JOHN M; *AMINO ACID AND NUCLEOTIDE METABOLISM* (B030311 X00); 12 MONTHS \$50,000

BROWN, GENE M; *BIOSYNTHESIS OF B VITAMIN AND RELATED COMPOUNDS* (B033319 X00); 12 MONTHS \$39,000

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LAM, KWOK-WAI; *INVESTIGATION OF COUPLING FACTORS IN OXIDATIVE PHOSPHORYLATION* (B034103); 24 MONTHS \$24,000

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FEINLEIB, MARY ELLA; *MECHANISM OF ORIENTATION IN ALGAL PHOTOTAXIS* (B034309); 24 MONTHS \$26,200

UNIVERSITY OF MASSACHUSETTS, BOSTON

LIPKE, HERBERT; *CHITIN - PROTEIN LINKS IN ARTHROPOD CUTICLE* (B034320); 24 MONTHS \$48,000

WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY

CASPI, ELIAHU; *ANTHERIDIOL: MODE OF FORMATION OF THE PLANT HORMONE* (B033801 001); 24 MONTHS \$42,000

GUT, MARCEL; *BIOSYNTHESIS OF PREGNENOLONE* (B033538 X01); 12 MONTHS \$25,600

HARVARD UNIVERSITY-HARVARD MEDICAL SCHOOL

LIN, EDMUND C C; *CONSTRUCTION OF METABOLIC PATHWAYS IN BACTERIA BY MUTATIONS* (B028874 X01); 12 MONTHS \$21,000

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NAJJAR, VICTOR A; *THE PHAGOCYTOSIS STIMULATING PEPTIDE - TUFTSIN* (B031343 X00); 12 MONTHS \$55,400

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HOPE COLLEGE

OCKERSE, RALPH; *GIBBERELLIN-AUXIN INTERACTION IN PEA STEM GROWTH* (B008729 001); \$749

MICHIGAN STATE UNIVERSITY

RIEGLE, GAIL D; *PHYSIOLOGICAL CONTROL SYSTEMS IN THE AGING PROCESS* (B008487 002); 12 MONTHS \$10,000

BANDURSKI, ROBERT S; *METABOLISM OF MICROORGANISMS AND HIGHER PLANTS* (B018353 X01); 12 MONTHS \$56,300

BANDURSKI, ROBERT S; *METABOLISM OF MICROORGANISMS AND HIGHER PLANTS* (B018353 X02); 12 MONTHS \$56,000

FRANTZ, WILLIAM L; *RECEPTOR MECHANISM FOR PROLACTIN IN THE EPITHELIUM OF THE PIGEON CROP MUCOSA* (B030888); 24 MONTHS \$25,000

ZEEVAART, JAN A D; *MECHANISM BY WHICH THE STEROID INHIBITOR SK&F 7397 SUPPRESSES FLORAL INDUCTION* (B031108); 24 MONTHS \$57,000

TOLBERT, N E; *LEAF PEROXISOMES* (B032040 X00); 12 MONTHS \$45,000
 COSTILOW, RALPH N; *CONTROL OF SPOREULATION IN BACILLI PATHOGENIC FOR INSECTS* (B034308 X00); 12 MONTHS \$21,900

UFFEN, ROBERT L; *BIOCHEMICAL AND STRUCTURAL DIVERSITY AMONG AQUATIC MICROORGANISMS IN ANAEROBIC ENVIRONMENTS* (B033320); 24 MONTHS \$43,000

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MALVIN, RICHARD L; *CONTROL OF RENAL HORMONES* (B026371 X00); 12 MONTHS \$31,200

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LANDS, WILLIAM E M; *REGULATION OF THE BIOSYNTHESIS OF PROSTAGLANDINS* (B028863 X01); 12 MONTHS \$39,200

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NORMENT, BEVERLY R, SIKOROWSKI, PETER, AND WILSON, CLIFTON A; *SURVEY AND STUDY OF PATHOGENIC MICROORGANISMS FOR INTEGRATED CONTROL OF MOSQUITOES* (B030833); 24 MONTHS \$23,800

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GOODMAN, ROBERT N; *ALTERATIONS IN PLANT CELLS CAUSED BY PATHOGENIC BACTERIA* (B017749 001); 24 MONTHS \$66,000

DORN, JANICE B; *NEUROHUMORAL CONTROL OF SODIUM EXCRETION* (B030082); 15 MONTHS \$37,300

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KATZMAN, PHILIP A; *HORMONAL CONTROL OF METABOLISM IN VAGINAL AND UTERINE TISSUES* (B008778 002); 24 MONTHS \$45,000

COSCIA, CARMINE J; *BIOSYNTHESIS OF INDOLE ALKALOIDS* (B017957 001); 24 MONTHS \$36,000

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MONTANA STATE UNIVERSITY

STROBEL, GARY A; *THE NATURE AND MECHANISM OF ACTION OF SOME TOXINS PRODUCED BY PLANT PARASITES* (B012936 001); 24 MONTHS \$29,300

UNIVERSITY OF MONTANA

SHERIDAN, RICHARD P; *ADAPTIVE MECHANISMS IN PHOTOSYNTHESIS* (B014396 002); \$5,200

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UNIVERSITY OF NEBRASKA AT LINCOLN

STOHS, SIDNEY J, AND EL-OLEMY, MAHMOUD M; *STEROL SIDE CHAIN CLEAVAGE AND STEROID METABOLISM IN CARDENOLIDE PRODUCING PLANTS* (B013222 001); 24 MONTHS \$12,000

BRASSE, MYRON K, AND BALL, ELLEN M; *LOCALIZATION AND SITE OF SYNTHESIS OF VIRUS COMPONENTS IN INFECTED PLANT CELLS* (B032015 X01); 12 MONTHS \$20,100

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MORIARTY, C M; *MODEL SYSTEM FOR THE STUDY OF ACTIVE CALCIUM TRANSPORT* (B030318); 24 MONTHS \$30,000

CUREIGHTON UNIVERSITY-SCHOOL OF MEDICINE

MAGEE, DONAL F; PEPsin SECRETION (B011985 001); 24 MONTHS \$25,000

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WENT, F W; PLANT PHYSIOLOGICAL AND BIOCHEMICAL PROBLEMS IN ARID REGIONS (B011773 X01); 12 MONTHS \$93,100

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COLLEGE OF MEDICINE & DENTISTRY OF NEW JERSEY

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UMBREIT, WAYNE W; STUDY OF AUTOTROPHY (B020015 X01); 12 MONTHS \$17,500

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RATNER, ALBERT; PROSTAGLANDINS ROLE IN THE NEUROENDOCRINE REGULATION OF LUTEINIZING HORMONE AND PROLACTIN (B010077); 24 MONTHS \$38,000

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AMERICAN MUSEUM OF NATURAL HISTORY

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STAPLES, RICHARD C, AND YANIV, ZOHARA; PROTEIN SYNTHESIS IN UREDOSPORES OF THE RUST FUNGI (B011003 001); 24 MONTHS \$50,000

MARAMOROSCH, KARL, AND STREISSLE, GERT; EFFECTS OF INSECT VIRUSES ON ANIMAL CELLS IN VITRO (B010977 X01); 12 MONTHS \$29,500

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MACKO, VLADIMIR, AND STAPLES, RICHARD C; REGULATION OF UREDOSPORE GERMINATION AND GERM TUBE DEVELOPMENT (B010988 X00); 12 MONTHS \$30,900

PITMAN, G B, RENWICK, J A A, AND VITE, J P; EVOLUTION OF MECHANISMS AFFECTING BIOSYNTHESIS AND RESPONSE (B011511); 24 MONTHS \$48,100

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HIND, GEOFFREY; THE ROLE OF CYTOCHROMES IN PHOTOSYNTHESIS (A000079); 24 MONTHS \$27,000

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ELLSWORTH, ROBERT K; CHLOROPHYLL A BIOGENESIS (B010000 001); 12 MONTHS \$11,500

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SILVERSTEIN, ROBERT M; CHEMISTRY AND BIOLOGY OF BARK BEETLE PHEROMONES (B013558 001); 24 MONTHS \$58,500

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STEINKRAUS, KEITH H; STUDIES OF IN VIVO AND IN VITRO GROWTH AND SPORULATION OF MILKY DISEASE BACTERIA (B011966 X01); 12 MONTHS \$57,500

MCCARTY, RICHARD E; PHOTOSYNTHETIC PHOSPHORYLATION AND ELECTRON TRANSPORT (B010597 X00); 12 MONTHS \$27,000

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HANSON, KENNETH R; PHENYLALANINE AMMONIA-LYASE IN RELATION TO PHENYLPROPANOIC METABOLISM IN HIGHER PLANTS (B042041 X01); 12 MONTHS \$25,000

UNIVERSITY OF CONNECTICUT

OZOLS, JURIS; DETERMINATION AND INFERENCES OF PROTEIN SEQUENCES (B043062 001); \$1,500
KEGELES, GERSON; KINETICS OF MACROMOLECULAR REACTIONS (B042034 X01); 12 MONTHS \$30,000
LUCAS-LENARD, JEAN; STUDIES ON MENGOVIRUS INFECTED L-CELLS (B040173 X00); 12 MONTHS \$30,000
YPHANTIS, DAVID A; ULTRACENTRIFUGE STUDIES OF PROTEINS AND THEIR INTERACTION (B040423 X00); 12 MONTHS \$65,000
SCHUSTER, TODD M, AND YPHANTIS, DAVID A; KINETICS AND MECHANISMS OF MACROMOLECULAR INTERACTIONS USING QUASIELASTIC LIGHT SCATTERING (B041027 X00); 12 MONTHS \$20,000

YALE UNIVERSITY

STRYER, LUBERT; OPTICAL STUDIES OF ORGANIZED BIOLOGICAL ASSEMBLIES (B047408 X01); 12 MONTHS \$40,000

WANG, JUI H; MOLECULAR MECHANISM OF PRIMARY ENERGY CONVERSION (B040171 X00); 12 MONTHS \$25,000

ENGLERMAN, D M; THE MOLECULAR STRUCTURE OF BIOLOGICAL MEMBRANES (B033043); 24 MONTHS \$50,000

YALE UNIVERSITY-SCHOOL OF MEDICINE

COLEMAN, JOSEPH E; ELECTRONIC AND MAGNETIC PROPERTIES OF MACROMOLECULES (B013141 001); 24 MONTHS \$34,000

MAOGE, PAUL T; REGULATION OF ISOLEUCINE-VALINE BIOSYNTHESIS IN YEAST (B030114); 24 MONTHS \$25,000

UNIVERSITY OF CONNECTICUT-HEALTH CENTER

OZOLS, JURIS; DETERMINATION AND INFERENCES OF MICROSOMAL PROTEIN SEQUENCES (B023049 000); 24 MONTHS \$52,000

TANZER, MARVIN L; COLLAGEN BIOSYNTHESIS, SECRETION AND CROSSLINKING (B031077); 24 MONTHS \$20,000

DISTRICT OF COLUMBIA

GEORGETOWN UNIVERSITY

STEINHARDT, JACINTO; EFFECTS OF PROTEIN INTERACTIONS ON PROTEIN STABILITY (B013381 001); 24 MONTHS \$60,000

FLORIDA

FLORIDA STATE UNIVERSITY

HOMANN, PETER H; FUNCTION AND ORGANIZATION OF PHOTOSYSTEM II IN MANGANESE DEFICIENT, FRAGMENTED AND MUTANT CHLOROPLASTS (B014301 001); 3 MONTHS \$1,800

DE KLOET, S R; RNA SYNTHESIS IN YEAST (B031490); 24 MONTHS \$20,000

UNIVERSITY OF FLORIDA

HIEBERT, ERNEST, AND PURCIFULL, DAN E; PROPERTIES AND FUNCTION OF INCLUSIONS ASSOCIATED WITH POTATO VIRUS Y GROUP OF PLANT VIRUSES (B032093); 24 MONTHS \$38,000

ALLEN, CHARLES M JR; BIOSYNTHESIS OF POLYISOPRENOL PYROPHOSPHATES (B031246); 24 MONTHS \$32,000

UNIVERSITY OF FLORIDA-COLLEGE OF MEDICINE

CHUN, PAUL W; COAT PROTEIN SUBUNIT ASSOCIATION AND SELF-ASSEMBLY OF ROD-SHAPED FD-VIRUS (B023933 001); 12 MONTHS \$22,500

UNIVERSITY OF MIAMI-SCHOOL OF MEDICINE

THORHAUG, ANITRA; EFFECT OF TEMPERATURE AND TEMPERATURE GRADIENTS ON THE LIVING MEMBRANE SYSTEM AND CELLULAR DYNAMICS (B031112); 24 MONTHS \$35,000

GEORGIA

EMORY UNIVERSITY

SOPHIANOPOULOS, ALKIS J; CONFORMATION, INTERACTIONS AND FUNCTION OF PROTEINS (B017842 001); 24 MONTHS \$52,000

UNIVERSITY OF GEORGIA

INMAN, F P; STRUCTURE AND BIOSYNTHESIS OF IMMUNOGLOBULIN M (IGM) (B008419 001); 24 MONTHS \$45,000

BREWER, JOHN M, LJUNGDAHL, LARS G, AND NEECE, SUE H; MOLECULAR BASIS OF THERMAL STABILITY OF ENZYMES (B013031 001); 24 MONTHS \$40,000

HAWAII

UNIVERSITY OF HAWAII

YASUNOBU, KERRY T; CHEMISTRY AND MECHANISM OF ACTION OF THE AMINE OXIDASES (B018739 001); 24 MONTHS \$35,000

ILLINOIS

CHICAGO MEDICAL SCHOOL

MARTIN, CHARLES J; FUNCTIONAL GROUPS AND THE ACTIVE SITE OF THE CHYMOTRYPSINS (B033173); 24 MONTHS \$40,000

NORTHWESTERN UNIVERSITY

KLOTZ, IRVING M; PROTEIN INTERACTIONS (B001122 X03); 12 MONTHS \$35,500

STUTZ, ERHARD; *EUGLENA GRACILIS* CHLOROPLAST DNA (B019191 001); 24 MONTHS \$39,000

DUMAS, LAWRENCE B; REPLICATION OF VIRUS ϕ X174 DNA (B022887 001); \$10,000

LOACH, PAUL A; CHARACTERIZATION OF PHOTORECEPTOR SUBUNITS (B047149 X01); 12 MONTHS \$18,000

SPRINGER, GEORG F; SUBSTANCES WITH BLOOD-GROUP SPECIFICITIES IN MICROBES AND HIGHER PLANTS- THEIR NATURE AND THEIR MODE OF INTERACTION WITH ANTIBODIES (B047514 001); \$10,000

CZERLINSKI, GEORGE R; ACTION OF EFFECTORS UPON THE FORMS OF CYTOCHROME c_1 (B022043 001); 24 MONTHS \$40,000

WU, TAI TE; STRUCTURES OF VARIABLE REGIONS OF ANTIBODIES (B031114); 24 MONTHS \$14,000

KATZ, JOSEPH J, AND LOACH, PAUL A; CONFERENCE ON THE PRIMARY PHOTOCHEMISTRY OF PHOTOSYNTHESIS (B031179); 12 MONTHS \$2,000

UNIVERSITY OF CHICAGO

LAW, JOHN H; INSECT BIOCHEMISTRY (B008436 000); 24 MONTHS \$30,100

EPSTEIN, WOLFOANG; ION TRANSPORT ACROSS CELL MEMBRANES (B008470 001); 24 MONTHS \$38,100

KAISER, EMIL THOMAS; CATALYTIC ACTION OF PEPSIN (B014808 001); 24 MONTHS \$40,000

HASELKORN, ROBERT; BLUE-GREEN ALGAE- MUTANTS, VIRUSES, AND TRANSDUCTION (B017814 001); 12 MONTHS \$12,500

ROIZMAN, BERNARD; VIRUS EXPRESSION IN MAMMALIAN CELLS (B027358 X00); 12 MONTHS \$16,000

ROIZMAN, BERNARD; VIRUS EXPRESSION IN MAMMALIAN CELLS (B027358 X03); 12 MONTHS \$16,000

KINODON, HENRY S, AND HEINRIKSON, ROBERT L; PRIMARY STRUCTURE OF *E. COLI* GLUTAMINE SYNTHETASE (B027308 001); 12 MONTHS \$20,000

SIGLER, PAUL B; CRYSTALLOGRAPHIC STUDY OF THE STRUCTURE OF TRANSFER RNA (B027614 X01); 12 MONTHS \$35,000

ZWICK, MARTIN; THEORETICAL CRYSTALLOGRAPHY OF MACROMOLECULES (B027647 X01); 12 MONTHS \$25,000

CHAPMAN, DAVID J; BIOCHEMISTRY OF PHOTOACTIVE PIGMENTS (B027888 001); 12 MONTHS \$15,000

WESTLEY, JOHN; CHEMISTRY OF ENZYMIC CATALYSIS (B043097 X01); 12 MONTHS \$40,000

UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER

TAO, MARIANO; THE ROLE OF ADENOSINE 2',5'-CYCLIC MONOPHOSPHATE IN MICROORGANISMS (B027435 001); 12 MONTHS \$10,000

UNIVERSITY OF ILLINOIS AT URBANA

KAPLAN, SAMUEL; INDUCTION OF BACTERIAL CHROMATOPHORE FORMATION (B014966 000); 24 MONTHS \$40,000

WOESE, CARL R; PHYLOGENY AND EVOLUTION OF RIBOSOMAL RNAS (B016228 001); 24 MONTHS \$78,900

MACLEOD, RODERICK; ANALYSES OF TWO SEROTYPES OF A PLANT RHADOVIRUS IN INSECT MONOLAYER CULTURES (B017449 001); 24 MONTHS \$38,000

MERKELO, HENRY; DETERMINATION OF THE RATES OF THE PRIMARY PROCESSES OF PHOTOSYNTHESIS AND OF THE INFLUENCE OF ENVIRONMENTAL CONDITIONS ON ENERGY TRANSPORT IN THE PHOTOSYNTHETIC UNIT (B028031 001); 12 MONTHS \$15,000

SYBESMA, CHRISTIAAN; PRIMARY ENERGY CONSERVATION IN PHOTOSYNTHESIS (B030649 X00); 12 MONTHS \$29,000

HAGER, LOVELL P; BIOLOGICAL HALOGENATION MECHANISMS (B030738 X00); 12 MONTHS \$40,000

CAMPBELL, L LEON; METABOLIC STUDIES ON SULFATE-REDUCING BACTERIA (B032290 X00); 12 MONTHS \$25,000

INDIANA

PURDUE UNIVERSITY

ARONSON, ARTHUR I; BIOSYNTHESIS OF BACTERIAL SPORES AND THE REGULATION OF RELATED PROCESSES (B020785 001); 24 MONTHS \$56,000

CRANE, FREDERICK L; COMPARATIVE BIOCHEMISTRY OF PLASTOQUINONES (B027501 001); 12 MONTHS \$10,000

GILHAM, PETER T, AND WIEBERS, JOYCE L; SEQUENCE ANALYSIS OF POLYNUCLEOTIDES AND NUCLEIC ACIDS BY MASS SPECTROMETRY AND GAS CHROMATOGRAPHY (B028198 001); 12 MONTHS \$25,000

RAY, WILLIAM J JR; THE MECHANISM OF THE PHOSPHOGLUCOMUTASE REACTION (B029173 X01); 12 MONTHS \$28,500

KOFFLER, HENRY, AND SMITH, R W; SELF-ASSEMBLING PROTEIN STRUCTURES (B029235 X01); 12 MONTHS \$30,000

ROSSMANN, MICHAEL G; X-RAY DETERMINATION OF PROTEINS AND VIRUSES (B028596 X01); 12 MONTHS \$85,000

LIGHT, ALBERT; PROTEIN STRUCTURE AND FUNCTION (B031330 X00); 12 MONTHS \$30,000

WEINER, HENRY; LIVER ALDEHYDE DEHYDROGENASE AND APPLICATION OF SPIN-LABELING (B031863 X00); 12 MONTHS \$15,000

CRAMER, WILLIAM A; B-TYPE CYTOCHROMES IN THE REGULATION OF PHOTOSYNTHETIC ELECTRON TRANSPORT (B044149 X00); 12 MONTHS \$25,000

INDIANA UNIVERSITY, INDIANAPOLIS-SCHOOL OF MEDICINE

BRYAN, WILLIAM P; HYDROGEN EXCHANGE OF PROTEINS (B030684 X00); 12 MONTHS \$15,000

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

FROMM, HERBERT J; MECHANISM AND CONTROL OF ENZYME ACTION (B031490); 24 MONTHS \$31,400

ITALY

INSTITUTO REGINA ELENA

WYMAN, JEFFRIES; RELATIONS BETWEEN STRUCTURE AND FUNCTION IN HEMOGLOBINS, MYOGLOBINS, AND RELATED SUBSTANCES (B009451); 24 MONTHS \$50,000

KANSAS

UNIVERSITY OF KANSAS-UNIVERSITY OF KANSAS MEDICAL CENTER
FISHER, HARVEY F; STRUCTURE AND MECHANISMS OF CATALYSIS OF ENZYMES (B043844 X00); 12 MONTHS \$28,000

KENTUCKY

UNIVERSITY OF LOUISVILLE-SCHOOL OF MEDICINE
YANKEELOV, JOHN A JR; ENZYME STRUCTURE AND FUNCTION (B017983 001); 6 MONTHS \$3,000
TAYLOR, JOHN F; HEMOGLOBIN STRUCTURE AND LIGAND EQUILIBRIA (B013044 X01); 12 MONTHS \$16,000
FONDA, MARGARET L; SUBSTRATE AND COENZYME INTERACTION WITH GLUTAMATE DECARBOXYLASE (B041799); 24 MONTHS \$28,000
GRAY, ROBERT D; KINETICS OF THE QUATERNARY STRUCTURAL TRANSITION OF HEMOGLOBIN (B041845); 24 MONTHS \$28,000

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE
CHANG, SIMON H; ENZYMIC RECOGNITION SITES AND TERTIARY STRUCTURE OF TRANSFER RNA (B017124 001); 12 MONTHS \$16,000
TULANE UNIVERSITY-DELTA REGIONAL PRIMATE RESEARCH CENTER
LI, YU-TEH, AND LI, SU-CHEN; GLYCOSIDASES INVOLVED IN THE DEGRADATION OF COMPLEX CARBOHYDRATES (B018018 001); 24 MONTHS \$30,000

MARYLAND

FEDERATION OF AMER SOCIETIES FOR EXPER BIOLOGY
TOSTESON, DANIEL C; CONFERENCE ON MEMBRANES IN GROWTH, DIFFERENTIATION AND NEOPLASIA (B0491818); 12 MONTHS \$1,400
JOHNS HOPKINS UNIVERSITY
CEBRA, JOHN J; MOLECULAR AND CELLULAR BASES FOR ANTIBODY SPECIFICITY (B045471); 24 MONTHS \$100,000
SELIGER, HOWARD H; CONVERSION OF CHEMICAL ENERGY INTO LIGHT ENERGY BY BIOLOGICAL SYSTEMS (B049490 X02); \$15,000
SELIGER, HOWARD H; CONVERSION OF CHEMICAL ENERGY INTO LIGHT ENERGY BY BIOLOGICAL SYSTEMS (B049490 001); 12 MONTHS \$25,000
UNIVERSITY OF MARYLAND, BALTIMORE COUNTY
STEINER, ROBERT F; ASSOCIATING PROTEIN SYSTEMS (B047705 X01); 12 MONTHS \$29,000
JOHNS HOPKINS UNIVERSITY-SCHOOL OF HYGIENE & PUBLIC HEALTH
TS'O, PAUL O P; STUDIES ON THE CONFORMATION, INTERACTION AND FUNCTION OF NUCLEIC ACIDS (B040125 X00); 12 MONTHS \$40,000
JOHNS HOPKINS UNIVERSITY-SCHOOL OF MEDICINE
DINTZIS, HOWARD M; SEQUENCE DETERMINATION IN PROTEINS AND NUCLEIC ACIDS (B0048101 004); 6 MONTHS \$10,000
BILTONEN, RODNEY L; THERMODYNAMIC STUDIES OF PROTEIN CONFORMATION (B017680 001); \$3,900
FENSELAU, ALLAN H; COMPARATIVE STRUCTURE-FUNCTION STUDIES ON THE CONTROL OF GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE (B026872 001); 12 MONTHS \$16,000
GREENAWALT, JOHN W; STRUCTURE AND FUNCTION OF MITOCHONDRIAL MEMBRANES (B011098 X00); 12 MONTHS \$28,000
LENNARZ, WILLIAM J; THE ROLE OF LIPID INTERMEDIATES IN THE BIOSYNTHESIS OF MANNAN AND OTHER MACRO-MOLECULES (B011141 X00); 12 MONTHS \$17,000

MASSACHUSETTS

BETH ISRAEL HOSPITAL
HIRSCH, CARL A; STUDIES OF MAMMALIAN PROTEIN SYNTHESIS AND ITS CONTROL (B040540); 24 MONTHS \$40,000
BOSTON BIOMEDICAL RESEARCH INSTITUTE
GERGELY, JOHN; BIOCHEMISTRY OF MUSCLE CONTRACTION (B011854); 24 MONTHS \$40,000
FLZINGA, MARSHALL; AMINO ACID SEQUENCE STUDIES ON MYOSIN (B043070 X00); 12 MONTHS \$30,000
BOSTON COLLEGE
BADE, MARIA L; BIOCHEMISTRY OF ARTHROPOD CHITIN (B011338 001); \$3,000
BOSTON UNIVERSITY
LAURSEN, RICHARD A; STRUCTURE AND MECHANISM OF ACTION OF ENZYMES (B047807 001); 12 MONTHS \$20,000

BRANDEIS UNIVERSITY

LEVINE, LAWRENCE; ANTIGEN-ANTIBODY REACTIONS AS PROBES OF PROTEIN MACROMOLECULAR STRUCTURE (B018338 001); 24 MONTHS \$40,000
GROSSMAN, LAWRENCE; STUDIES IN THE ENZYMIC EXCISION-REPAIR SYSTEM OF MICROCOCCUS LUTEUS (B029179 X01); 12 MONTHS \$25,000
FASMAN, GERALD S; CONFORMATIONAL STUDIES OF (1) SYNTHETIC POLY-A-AMINO ACIDS AND POLYNUCLEOTIDES AND (2) DNA INTERACTIONS WITH HISTONES AND MODEL POLYPEPTIDES (B049804 X01); 12 MONTHS \$30,000
JENCKS, WILLIAM P; ENERGY TRANSFERRING REACTIONS (B041740 X00); 12 MONTHS \$28,000
KUSTIN, KENNETH; BIOINORGANIC CHEMISTRY OF VANADIUM IN TUNICATES (B013417); 24 MONTHS \$45,000

CHILDRENS CANCER RESEARCH FOUNDATION

CASPAR, D L D, COHEN, CAROLYN, AND HARRISON, S C; MACROMOLECULAR ASSEMBLIES IN CELL BIOLOGY (B043447 001); 12 MONTHS \$22,000
LOWEY, SUSAN; PHYSICAL-CHEMICAL BASIS FOR THE CONTRACTILE MECHANISM (B044117 X00); 12 MONTHS \$24,000

HARVARD UNIVERSITY

EDSALL, JOHN T; PHYSICAL CHEMISTRY OF AMINO ACIDS, PEPTIDES AND PROTEINS (B003884 004); \$5,000
GILL, DAVID MICHAEL; DIPHTHERIA TOXIN AND PROTEIN SYNTHESIS (B013217 001); 24 MONTHS \$40,000
HOLTON, GERALD, AND HAWLEY, STEPHEN A; THERMODYNAMIC PROPERTIES OF AQUEOUS SOLUTIONS (B018704 001); 24 MONTHS \$68,000
PAULUS, HENRY; MULTIVALENT FEEDBACK INHIBITION OF ASPARTOKINASE IN BACILLUS POLYMYXA (B043328 001); 12 MONTHS \$22,000
DOTY, PAUL; PROTEINS AND NUCLEIC ACID INTERACTIONS (B047444 X01); 12 MONTHS \$50,000
LEVINE, ROBERT F; AN INVESTIGATION OF PHOTOSYNTHETIC ELECTRON TRANSPORT WITH MUTANT STRAINS OF CHLAMYDOMONAS REINHARDI (B029203 X01); 12 MONTHS \$28,000
STROMINGER, JACK L; STRUCTURE AND BIOSYNTHESIS OF BACTERIAL CELL WALLS (B029747 X01); 12 MONTHS \$50,000
WEBER, KLAUS K, GILBERT, WALTER, AND WATSON, JAMES D; STRUCTURE AND FUNCTION OF RNA-POLYMERASE (B040071); 24 MONTHS \$65,000
BLOCH, KONRAD; COMPARATIVE BIOCHEMISTRY OF FATTY ACID SYNTHETASES (B030669 X00); 12 MONTHS \$28,000
BRIGGS, WINSLOW R; PHYSICAL, BIOCHEMICAL, AND PHYSIOLOGICAL STUDIES OF THE PLANT PIGMENT PHYTOCHROME (B040864 X00); 12 MONTHS \$30,000
BRIGGS, WINSLOW R; PHYSICAL, BIOCHEMICAL, AND PHYSIOLOGICAL STUDIES OF THE PLANT PIGMENT PHYTOCHROME (B040864 X01); 12 MONTHS \$30,000
HASTINGS, J V; STRUCTURE AND FUNCTION OF BACTERIAL LUCIFERASE (B041417 X00); 12 MONTHS \$35,000
KLOTZ, LYNN C; MOLECULAR WEIGHT OF EUKARYOTIC CHROMOSOMAL DNA (B044883); 24 MONTHS \$44,000

MASSACHUSETTS GENERAL HOSPITAL

KALCKAR, HERMAN M; RECOGNITION PATTERNS IN ENZYMES AND IN FUNCTIONAL MEMBRANE PROTEINS (B040783 X00); 12 MONTHS \$34,000
HIRSHFIELD, IRVIN N; STUDIES ON THE REGULATION OF LYSYL-TRNA SYNTHETASE ACTIVITY (B041011); 24 MONTHS \$26,800
ROBINSON, DWIGHT R; ENZYME MECHANISMS FOR ACYL TRANSFER REACTIONS (B041126 X00); 12 MONTHS \$28,000
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
BAGLIONI, CORRADO; PROTEIN AND RNA SYNTHESIS (B014243 001); 12 MONTHS \$30,000
KHORANA, H GOBIND; NUCLEIC ACID SYNTHESIS (B041054 X02); 12 MONTHS \$140,000
LURIA, SALVADOR E; MOLECULAR ASPECTS OF THE INTERACTION OF BACTERIOPHAGES AND COLICINS WITH BACTERIA (B043073 X00); 12 MONTHS \$50,000
RICH, ALEXANDER; MECHANISM OF PROTEIN SYNTHESIS AND MOLECULAR STRUCTURE OF THE NUCLEIC ACIDS (B040688 X00); 12 MONTHS \$40,000
HECHT, SIDNEY M; SITE-SPECIFIC TRNA MODIFICATIONS. RELATIONSHIP BETWEEN STRUCTURE AND FUNCTION AT THE TRNA LEVEL (B041212); 24 MONTHS \$50,000
MAGASANIK, BORIS; REGULATION OF THE METABOLIC PROCESSES OF THE SINGLE CELL AT THE MOLECULAR LEVEL (B043509 X00); 12 MONTHS \$40,000
STEINER, LISA A; PRIMARY PROCESSES IN BACTERIAL PHOTOSYNTHESIS (B043404); 24 MONTHS \$40,000
NEW ENGLAND MEDICAL CENTER HOSPITALS
WALLACH, DONALD F H; MOLECULAR ASPECTS OF MEMBRANE STRUCTURE AND FUNCTION (B041189); 24 MONTHS \$50,000

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

TIPPER, DONALD J; POLYMER SYNTHESIS DURING MICROCYST FORMATION IN 'MYXOCOCCUS XANTHUS' (B090367); 4 MONTHS \$21,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

FORD, N C JR, AND KARASZ, F E; MEASUREMENT OF THE DIFFUSION CONSTANT OF BIOLOGICAL MOLECULES BY HOMODYNE SPECTROSCOPY (B040481 001); 24 MONTHS \$36,000

HIXSON, STEPHEN S; PHOTOCHEMICAL METHODS FOR LABELLING ACTIVE SITES OF ENZYMES (B047114 001); 12 MONTHS \$12,000

KARASZ, FRANK E; THERMODYNAMIC AND OTHER STUDIES OF THE CONFORMATIONAL TRANSITION IN BIOPOLYMERS (B033424); 24 MONTHS \$40,000

KARASZ, FRANK E; THERMODYNAMIC AND OTHER STUDIES OF THE CONFORMATIONAL TRANSITION IN BIOPOLYMERS (B033424 001); \$4,500

BOSTON UNIVERSITY-SCHOOL OF MEDICINE

KAMINER, BENJAMIN; FILAMENTS, MORPHOGENESIS AND CONTRACTION OF MUSCLE (B044844); 24 MONTHS \$33,000

HARVARD UNIVERSITY-HARVARD MEDICAL SCHOOL

KARNOVSKY, MANFRED L; OPERATION OF PREPARATION ROOM (B041181 001); 12 MONTHS \$15,000

BRATT, MICHAEL A; TEMPERATURE SENSITIVE MUTANTS AS A PROBE OF NDV INFECTION (B030583 X00); 12 MONTHS \$30,000

BRATT, MICHAEL A; TEMPERATURE SENSITIVE MUTANTS AS A PROBE OF NDV INFECTION (B030583 X01); 12 MONTHS \$30,000

MICHIGAN

EDSEL B FORD INSTITUTE FOR MEDICAL RESEARCH

SHORE, JOSEPH D; THE MECHANISM OF ACTION OF DEHYDROGENASES (B018087 001); 24 MONTHS \$44,000

MICHIGAN STATE UNIVERSITY

TULINSKY, ALEXANDER; X-RAY STRUCTURE DETERMINATION OF ENZYMES AND OTHER BIOLOGICAL MOLECULES (B015402 001); 12 MONTHS \$17,500

WOOD, W A; AN OLIGOMERIZATION MODEL FOR ALLOSTERIC CONTROL (B020180 001); 24 MONTHS \$40,000

ROTTMAN, FRITZ W; INFLUENCE OF α -O-METHYLATION ON THE PHYSICAL AND BIOLOGICAL PROPERTIES OF RNA (B020184 001); 12 MONTHS \$24,000

CORNER, THOMAS R; BIOMECHANICS OF MICROBIAL MEMBRANES (B031443); 24 MONTHS \$30,000

WOOD, W A, AND TULINSKY, A; STRUCTURE OF A TRIMERIC METABOLIC ENZYME (B033722 X00); 12 MONTHS \$20,000

UNIVERSITY OF MICHIGAN

ZAND, ROBERT; BIOPHYSICAL STUDIES OF CYCLIC AND BICYCLIC AMINO ACIDS, THEIR POLYMERS AND PEPTIDES (B041453 001); 12 MONTHS \$11,500

MINNESOTA

UNIVERSITY OF MINNESOTA

LIENER, IRVIN E; INTERACTION OF PROTEASES WITH THEIR NATURAL INHIBITORS (B015385 001); 24 MONTHS \$28,000

BODLEY, JAMES W; MECHANISM OF TRANSLOCATION (B018164 001); 24 MONTHS \$36,000

LUMRY, RUFUS, AND ROSENBERG, ANDREAS; A SYSTEMS APPROACH TO PROTEIN FUNCTION (B025783 002); 6 MONTHS \$14,500

RUBENSTEIN, IRWIN; A PHYSICAL-CHEMICAL STUDY OF LYSOGENY (B026126 001); 12 MONTHS \$20,000

MISSOURI

ST LOUIS UNIVERSITY

MATHEWS, F SCOTT; CRYSTALLOGRAPHIC STUDIES OF THE MICROSOMAL CYTOCHROME B₅ ELECTRON TRANSPORT ENZYME SYSTEM (B027484 X01); 12 MONTHS \$25,000

MARTONOSI, ANTHONY; THE MECHANISM OF CALCIUM TRANSPORT BY SARCOPLASMIC RETICULUM (B033872 X00); 12 MONTHS \$20,000

UNIVERSITY OF MISSOURI, COLUMBIA

KOEPPE, OWEN J; THE ENZYME DEHYDROGENASE D-GLYCERAL-DEHYDE-3-PHOSPHATE (B041178 001); 12 MONTHS \$9,000

WASHINGTON UNIVERSITY

LIPKIN, DAVID; CHEMISTRY OF NUCLEIC ACIDS AND RELATED SUBSTANCES (B043358 001); \$2,700

BANASZAK, LEONARD J; X-RAY STRUCTURAL STUDIES OF CYTOPLASMIC MALATE DEHYDROGENASE (B027447 X01); 12 MONTHS \$20,000

SCHLESINGER, MILTON J; STRUCTURE AND FUNCTION OF E. COLI ALKALINE PHOSPHATASE (B027613 001); 12 MONTHS \$16,000

WASHINGTON UNIVERSITY-SCHOOL OF MEDICINE

THACH, ROBERT E; PROTEIN SYNTHESIS AND THE STRUCTURE OF THE RIBOSOME (B028644 X01); 12 MONTHS \$30,000

SCHLESINGER, DAVID; REGULATION OF RNA AND RIBOSOME FORMATION AND BREAKDOWN IN BACTERIAL CELLS (B020358 001); 24 MONTHS \$40,000

FRIEDEN, CARL; ENZYME STRUCTURE AND FUNCTION (B028422 X01); 12 MONTHS \$24,000

MONTANA

MONTANA STATE UNIVERSITY

SHEPARD, JAMES F; ANTIGENIC CHARACTERIZATION AND INTRACELLULAR LOCALIZATION OF VIRAL STRUCTURAL PROTEIN (B024415 001); 12 MONTHS \$5,000

NEBRASKA

CREIGHTON UNIVERSITY-SCHOOL OF MEDICINE

WATT, DEAN D; CHEMICAL AND BIOLOGICAL PROPERTIES OF THE NEUROTOXINS IN VENOM (B033466); 24 MONTHS \$38,000

NEW HAMPSHIRE

DARTMOUTH COLLEGE-DARTMOUTH MEDICAL SCHOOL

MALKIN, LEONARD I; PROTEIN SYNTHESIS IN REGENERATING RAT LIVER AND TUMOR MITOCHONDRIA (B044118); 24 MONTHS \$35,000

LIENHARD, C STAV E; MECHANISMS IN ENZYMIC CATALYSIS-TRANSITION-STATE ANALOGS, DISTORTION, THIAMINE CATALYSIS, THIAMINASE I, PROPIONYL COA CARBOXYLASE (B033342); 12 MONTHS \$34,000

NEW JERSEY

PRINCETON UNIVERSITY

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LANGRIDGE, ROBERT; STRUCTURES OF THE NUCLEIC ACIDS (B028201 001); 12 MONTHS \$35,000

JOHNSON, FRANK H, AND SHIMOMURA, OSAMU; BIOCHEMISTRY OF LUMINESCENCE (B030963 X00); 12 MONTHS \$46,000

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PRICE, C A; RESOLUTION AND CAPACITY IN EQUIVOLUMETRIC GRADIENTS (B030038 X01); 12 MONTHS \$12,000

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CRANE, ROBERT K; ABSORPTION OF SUGARS (B014464 001); 24 MONTHS \$64,000

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BIRNBAUM, EDWARD R; INTERACTIONS OF RARE EARTH METAL IONS WITH PROTEINS (B031374); 24 MONTHS \$40,000

UNIVERSITY OF NEW MEXICO

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NEW YORK

BROOKHAVEN LABORATORY

SCHOENBORN, BENNO P; NEUTRON DIFFRACTION ANALYSIS OF PROTEIN STRUCTURES (A000322); 12 MONTHS \$46,000

COLD SPRING HARBOR LAB OF QUANTITATIVE BIOLOGY

GESTELAND, RAYMOND F; USE OF COUPLED CELL-FREE PROTEIN SYNTHESIS FROM LAMBDA, SV40 AND POLYOMA DNAs TO STUDY CONTROL OF VIRAL DEVELOPMENT (B030719 X00); 12 MONTHS \$40,000

UDRY, WILLIAM R; XXXVII COLD SPRING HARBOR SYMPOSIUM ON QUANTITATIVE BIOLOGY (B033062); 12 MONTHS \$5,000

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LEVINTHAL, CYRUS; PROTEIN CRYSTALLOGRAPHY USING 'PARTIAL STRUCTURES' FOR PHASE DETERMINATION (B018481 001); 6 MONTHS \$10,000

BEYCHOK, SHERMAN; OPTICAL ACTIVITY OF BIOLOGICAL MACROMOLECULES IN RELATION TO CONFORMATION (B029451 X01); 12 MONTHS \$41,000

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- HEPPEL, LEON A; *BINDING PROTEINS AND THEIR ROLE IN ACTIVE TRANSPORT* (B017316 X01); 18 MONTHS \$37,000
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- MYER, YASH P; *CONFORMATION OF CYTOCHROMES* (B030687 X01); 12 MONTHS \$30,000
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STANFORD UNIVERSITY
SCHUBERT, EARL D; *TIMING PATTERNS FROM DIFFERENT POINTS IN THE COCHLEA* (B032143); 24 MONTHS \$43,000

UNIVERSITY OF CALIFORNIA, BERKELEY
DE VALOIS, RUSSELL L; *PRIMATE COLOR VISION* (B018608 X02); 12 MONTHS \$34,700

TIMIRAS, PAOLA B; *EFFECTS OF THYROID HORMONES ON MYELIN AND GLIAL MEMBRANE IN THE DEVELOPING BRAIN* (B088808 001); \$7,000

ROSENZWEIG, MARK R, AND DIAMOND, MARIAN C; *PLASTICITY OF BRAIN AND MECHANISMS OF MEMORY* (B050366 X00); 12 MONTHS \$89,700

STENT, OUNTER S; *NEURONAL FUNCTION AND LOCOMOTORY CONTROL* (B031933 X00); 12 MONTHS \$41,000
MARO, ELWIN; *CHANGES OF VISUAL RECEPTIVE FIELDS WITH FIXATION DISTANCE* (B033338); 24 MONTHS \$34,400

UNIVERSITY OF CALIFORNIA, DAVIS
HENRY, KENNETH R; *ACOUSTIC PRIMING OF AUDIOGENIC SEIZURES* (B031941); 24 MONTHS \$32,800

UNIVERSITY OF CALIFORNIA, SAN DIEGO
GREEN, DAVID M; *POISSON MODELS OF PSYCHOPHYSICAL PROCESSES* (B030448 X00); 12 MONTHS \$37,800

BULLOCK, THEODORE H; *NEURONAL INTEGRATIVE MECHANISMS AND THEIR ORGANIZATION IN USEFUL SYSTEMS* (B030448 X00); 12 MONTHS \$65,000

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
TREVOR, ANTHONY J, AND SHIRACHI, DONALD Y; *TETRODOTOXIN AND SAXITOXIN RECEPTOR ISOLATION* (B031807 X00); 12 MONTHS \$19,900

UNIVERSITY OF CALIFORNIA, SANTA BARBARA
KUNO, CHING; *GENETIC DISSECTION OF EXCITABLE MEMBRANES* (B032164 X00); 12 MONTHS \$37,000

CASE, JAMES F; *NEUROPHYSIOLOGICAL BASIS OF BIOLUMINESCENT COMMUNICATION* (B033339 X00); 12 MONTHS \$16,600

UNIVERSITY OF SOUTHERN CALIFORNIA
BISHOP, LEWIS G; *NEURAL ENCODING OF BEHAVIOR-COLOR VISION AND IMAGE PROCESSING* (B030719); 24 MONTHS \$32,400

LOMA LINDA UNIVERSITY-SCHOOL OF MEDICINE
AUSTIN, GEORGE; *INVESTIGATION OF CEREBROVASCULAR MECHANISMS* (B031933); 24 MONTHS \$45,700

STANFORD UNIVERSITY-SCHOOL OF MEDICINE
SHOOTER, ERIC M; *STRUCTURE AND MECHANISM OF ACTION OF THE NERVE GROWTH FACTOR* (B031882); 24 MONTHS \$45,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES-SCHOOL OF MEDICINE
ADEY, WILLIAM R, AND COSTIN, ANATOL; *CEREBRAL INTERCELLULAR AND CELL SURFACE MACROMOLECULES* (B027740 X01); 12 MONTHS \$30,500

ROBERTS, SIDNEY; *LOCALIZATION AND FUNCTIONS OF NEUROHORMONE-SENSITIVE ADENYL CYCLASES IN THE BRAIN* (B030300); 24 MONTHS \$50,000

ELUL, RAFAEL; *NEUROPHYSIOLOGICAL MECHANISMS OF THE ELECTROENCEPHALOGRAM-MICROELECTRODE ANALYSIS OF INTER-NEURONAL COUPLING* (B030498); 12 MONTHS \$25,000

HERSCHMAN, H R; *DEVELOPMENTAL REGULATION OF BRAIN-SPECIFIC PROTEIN SYNTHESIS* (B030518); 24 MONTHS \$46,000
TAYLOR, ANNA N; *CENTRAL NERVOUS SYSTEM MECHANISMS IN ENDOCRINE RESPONSES TO STRESS* (B033174); 24 MONTHS \$40,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCHOOL OF MEDICINE
ROSENBERG, ROGER N; *METABOLISM OF ACETYLCHOLINE IN MYASTHENIA GRAVIS* (B028348 X01); 12 MONTHS \$21,000

UNIVERSITY OF SOUTHERN CALIFORNIA-SCHOOL OF MEDICINE
LINDSLEY, DAVID F; *BRAIN MECHANISMS OF ATTENTION AND PERCEPTION* (B031540); 24 MONTHS \$40,000

COLORADO

COLORADO STATE UNIVERSITY
ABEL, JOHN H JR; *STEROID BINDING NEURONS IN THE LIMBIC SYSTEM* (B033321); 12 MONTHS \$31,800

UNIVERSITY OF COLORADO
MACGREGOR, RONALD J; *MODELS OF NEURAL NETWORKS* (B033687); 24 MONTHS \$37,500

BATTIG, WILLIAM F, BOURNE, LYLE E, EKSTRAND, BRUCE R, CROTHERS, EDWARD J, AND KIMBLE, GREGORY A; *COHERENT-AREA-OF-SCIENCE SUPPORT OF RESEARCH ON COGNITIVE FACTORS IN HUMAN LEARNING AND MEMORY* (B034077 X00*); 12 MONTHS \$40,000

CONNECTICUT

UNIVERSITY OF BRIDGEPORT
GILINSKY, ALBERTA S; *INTEGRATIVE MECHANISMS IN PERCEPTION* (B031049); 12 MONTHS \$15,000

YALE UNIVERSITY
RUBEL, EDWIN W; *ONTOGENY OF VERTEBRATE SENSORY PROCESSES* (B031831); 24 MONTHS \$44,900

YALE UNIVERSITY-SCHOOL OF MEDICINE
LENTZ, THOMAS L; *TROPHIC FUNCTION OF NERVES DURING REGENERATION* (B020902 001); 24 MONTHS \$46,000

UNIVERSITY OF CONNECTICUT-HEALTH CENTER
MCKELVY, JEFFREY F; *HYPOTHALAMIC RELEASING FACTOR BIOSYNTHESIS (B031246)*; 24 MONTHS \$60,000

DISTRICT OF COLUMBIA

AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES
OLIVE, JOHN R; *AMERICAN TABLES COMMITTEE FOR NAPLES ZOOLOGICAL STATION (B007384 003)*; 9 MONTHS \$1,000

AMERICAN SOCIETY FOR CYBERNETICS

HERRMANN, ROY; *CONFERENCE ON THE MODELING OF COMPLEX SYSTEMS IN THE PURSUIT OF NATIONAL GOALS (B031493)*; 6 MONTHS \$3,750

HOWARD UNIVERSITY

HOLLOWAY, JAMES A; *DORSAL HORN CELL INTERGRATIVE MECHANISMS IN BIRDS AND AMPHIBIANS (B034994)*; 12 MONTHS \$25,200

NATIONAL ACADEMY OF SCIENCES

DUNHAM, CHARLES L; *U.S. NATIONAL COMMITTEE FOR THE INTERNATIONAL BRAIN RESEARCH ORGANIZATION (IBRO) (C101444)*; 12 MONTHS \$5,000

FLORIDA

FLORIDA STATE UNIVERSITY

GRAZIADEI, PASQUALE P C; *COMPARATIVE STUDIES ON SENSORY RECEPTORS AND PATHWAYS (B038437 X01)*; 12 MONTHS \$25,400

KENSHALO, D R; *BEHAVIORAL AND ELECTROPHYSIOLOGICAL INVESTIGATIONS OF TEMPERATURE SENSITIVITY OF PRIMATES (B030410)*; 24 MONTHS \$45,000

BERKLEY, MARK A; *BEHAVIORAL AND ELECTROPHYSIOLOGICAL CORRELATES OF SPATIAL VISION IN THE MAMMALIAN VISUAL SYSTEM (B034189)*; 24 MONTHS \$35,400

UNIVERSITY OF FLORIDA

ISAACSON, R L; *EARLY BRAIN DAMAGE AND BEHAVIOR (B017345 001)*; 24 MONTHS \$65,000

DAWSON, WILLIAM W; *ORIGINS OF THE FAST RETINAL POTENTIALS (B031449 X00)*; 12 MONTHS \$27,000

UNIVERSITY OF MIAMI-SCHOOL OF MEDICINE

LOEWENSTEIN, WERNER R; *CELL DEVELOPMENT AND DIFFERENTIATION (B032068)*; 12 MONTHS \$60,000

GEORGIA

EMORY UNIVERSITY

DEFELICE, LOUIS J; *ELECTRICAL NOISE IN BIOLOGICAL AND ARTIFICIAL MEMBRANES (B031716)*; 36 MONTHS \$4,000

EMORY UNIVERSITY-YERKES REGIONAL PRIMATE RESEARCH CENTER

MANOCHA, SOHAN L; *CYTOCHEMISTRY OF NERVOUS SYSTEM IN EXPERIMENTAL PROTEIN MALNUTRITION IN PRIMATES (B030358)*; 12 MONTHS \$25,000

NADLER, RONALD D; *SEXUAL DIFFERENTIATION OF THE BRAIN (B030737)*; 24 MONTHS \$36,100

HAWAII

UNIVERSITY OF HAWAII-SCHOOL OF MEDICINE

GILLARY, HOWARD L; *ELECTRICAL ACTIVITY IN PHOTORECEPTORS (B031097)*; 24 MONTHS \$45,000

ILLINOIS

CHICAGO MEDICAL SCHOOL

ALIVISATOS, SPYRIDON G A; *ROLE OF SCHIFF BASES IN THE CNS AS INTERMEDIATES IN THE FORMATION OF TETRAHYDROISOQUINOLINE ALKALOIDS (B030915)*; 12 MONTHS \$18,800

ILLINOIS STATE PSYCHIATRIC INSTITUTE

BRUNNGRABER, ERIC G; *STRUCTURE OF BRAIN GLYCOPROTEINS (B033621)*; 24 MONTHS \$34,700

NORTHWESTERN UNIVERSITY

GESTELAND, ROBERT C, AND FARBMAN, ALBERT I; *INTRACELLULAR STUDY OF OLFACTORY AND GUSTATORY RECEPTORS (B030320)*; 24 MONTHS \$50,800

UNIVERSITY OF CHICAGO

SPYROPOULOS, C S; *DEPENDENCE OF THE MEMBRANE POTENTIAL ON EXTERNAL ELECTROLYTE CONCENTRATION (B030627)*; 12 MONTHS \$20,000

UNIVERSITY OF ILLINOIS AT URBANA

DONCHIN, EMANUEL; *SLOW CORPICAL POTENTIALS DURING PERFORMANCE OF COGNITIVE TASKS (B030999)*; 24 MONTHS \$40,000

LOYOLA UNIVERSITY-STITCH SCHOOL OF MEDICINE

NISHI, SYOGORO; *CELLULAR NEUROPHYSIOLOGY OF MAMMALIAN PARASYMPATHETIC GANGLIA (B030580 X00)*; 12 MONTHS \$24,800

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

SUTHERS, RODERICK A; *VISUAL AND AUDITORY INTERACTION IN THE BRAIN OF A FACULTATIVE ECHOLOCATOR (B018781 001)*; 24 MONTHS \$62,000

MAHLER, HENRY R, AND MOORE, WALTER J; *PROTEIN SYNTHESIS IN INVERTEBRATE PHOTORECEPTORS (B017137 001)*; 24 MONTHS \$40,000

NEFF, WILLIAM D; *STUDIES OF SENSORY DISCRIMINATION (B047547 X01)*; 12 MONTHS \$35,500

PURDUE UNIVERSITY

LANGFORD, TED L; *NEURAL BASES OF DIRECTIONAL HEARING (B033477)*; 24 MONTHS \$40,000

UNIVERSITY OF NOTRE DAME

ESCH, HARALD E; *NEUROPHYSIOLOGICAL STUDIES OF COMMUNICATION (B013444 001)*; 24 MONTHS \$40,800

ADLER, KRAIG; *STUDIES ON LIGHT RECEPTORS AND MECHANISMS FOR ORIENTATION (B030417)*; 12 MONTHS \$15,100

INDIANA UNIVERSITY, INDIANAPOLIS-SCHOOL OF MEDICINE

OCHS, SIDNEY; *MECHANISM OF FAST AXOPLASMIC TRANSPORT OF MATERIALS IN NERVE FIBERS (B048684 X01)*; 12 MONTHS \$29,100

APRISON, M H; *IDENTIFICATION OF NEUROTRANSMITTERS (B048115 X01)*; 12 MONTHS \$21,000

MARYLAND

BALTIMORE CITY HOSPITAL

KAMBACK, MARVIN C; *PREFRONTAL CORTICAL ABLATIONS AND ATTENTIONAL DEFICITS (B030643)*; 12 MONTHS \$25,200

FEDERATION OF AMER SOCIETIES FOR EXPER BIOLOGY

FEATHERSTONE, ROBERT M; *FIFTH INTERNATIONAL CONGRESS ON PHARMACOLOGY (B031343)*; 12 MONTHS \$10,000

MASSACHUSETTS

MARINE BIOLOGICAL LABORATORY

EBERT, JAMES D; *SUPPORT OF A CHARTER VESSEL FOR COLLECTING MATERIALS FOR RESEARCH IN NEUROBIOLOGY (B033919 X00)*; 12 MONTHS \$15,900

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SCHMITT, FRANCIS O; *PROBLEMS OF BRAIN AND BEHAVIOR (B038781 X00)*; 12 MONTHS \$60,800

NORTHEASTERN UNIVERSITY

SANDLER, SHELDON S, AND FINE, SAMUEL; *THE STRUCTURE OF THE CORNEA (B030320)*; 24 MONTHS \$50,100

UNIVERSITY OF MASSACHUSETTS, AMHERST

FITE, KATHERINE V; *RETINAL PROJECTIONS TO THE DIENCEPHALON (B030521)*; 24 MONTHS \$27,300

WOODS HOLE OCEANOGRAPHIC INSTITUTION

ATEMA, JELLE, BOYLAN, DAVID B, AND TODD, JOHN H; *CHEMICAL COMMUNICATION IN MARINE ANIMALS (B011853)*; 12 MONTHS \$40,000

TUFTS UNIVERSITY-SCHOOL OF MEDICINE

MAUTNER, HENRY G; *ACTIVE SITES OF BIOPOLYMERS INVOLVED IN NERVE CONDUCTION (B031845)*; 24 MONTHS \$55,200

MICHIGAN

MICHIGAN STATE UNIVERSITY

JOHNSON, JOHN I; *DETERMINING FACTORS IN BRAIN EVOLUTION (B030785)*; 24 MONTHS \$47,200

ZACKS, JAMES L; *VISUAL ADAPTATION (B031843)*; 6 MONTHS \$3,500

HEISEY, S RICHARD; *COMPARATIVE PHYSIOLOGY OF CEREBROSPINAL FLUID (B032243)*; 24 MONTHS \$39,800

UNIVERSITY OF MICHIGAN

AGRANOFF, BERNARD W; *CHEMICAL CORRELATES OF MEMORY (B032409 X00)*; 12 MONTHS \$39,300

MISSOURI

WASHINGTON UNIVERSITY

SUGA, NOBUO; *NEURAL PROCESSING OF ACOUSTIC INFORMATION FOR COMMUNICATION AND NAVIGATION (B013904 001)*; 24 MONTHS \$85,000

NEBRASKA

UNIVERSITY OF NEBRASKA MEDICAL CENTER AT OMAHA

CLARK, FRANCIS J; *ORIGIN AND CODING OF POSITION INFORMATION FROM LIMBS (B034768)*; 24 MONTHS \$40,000

NEW JERSEY

PRINCETON UNIVERSITY

HOEBEL, BARTLEY G; *NEURAL INTERACTION IN THE REGULATION OF MOTIVATED BEHAVIOR (B008151 X02)*; 12 MONTHS \$31,900

KONISHI, MASAKAZU; *BEHAVIORAL AND PHYSIOLOGICAL STUDIES OF BIOACOUSTICS* (B018789 004); 24 MONTHS \$59,900

RUTGERS UNIVERSITY

LITCHFIELD, CARTER; *THE ACOUSTICAL FUNCTION OF LIPIDS IN ODONTOCYTE ECHOLOCAION* (B030554); 24 MONTHS \$38,000

NEW MEXICO

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

SCHAFER, ROLLIE; *MICROTUBULE FUNCTION IN NEURONS* (B018004); 12 MONTHS \$5,200

NEW YORK

BROOKLYN COLLEGE

GUTTMAN, RITA; *EXCITATION PROCESS IN NERVE* (B02857 001); 24 MONTHS \$30,500

CORNELL UNIVERSITY

HALPERN, BRUCE P; *CENTRIFUGAL MODULATION OF GUSTATORY RESPONSES* (B032488); 24 MONTHS \$43,000

DOWNSTATE MEDICAL CENTER AT BROOKLYN

FORD, DONALD H; *CONFERENCE ON THE NEUROBIOLOGICAL ASPECTS OF MATURATION AND AGING* (B032124); 12 MONTHS \$5,000

JEWISH HOSPITAL OF BROOKLYN

BERMAN, A J; *THE EFFECTS OF CEREBELLAR LESIONS ON AGGRESSIVE BEHAVIOR* (B030990); 28 MONTHS \$22,000

ROCKEFELLER UNIVERSITY

RATLIFF, FLOYD; *MULTINEURON ANALYSES OF RETINAL MECHANISMS OF VISION* (B006340 X05); 12 MONTHS \$17,500

ISON, JAMES R; *FACILITATION AND INHIBITION OF REFLEXIVE BEHAVIOR* (B014814 002); 24 MONTHS \$50,100

MAURO, ALEXANDER; *ELECTROPHYSIOLOGICAL STUDY OF EXTRA-OCULAR PHOTORECEPTORS* (B018753 001); 3 MONTHS \$1,900

WEISS, PAUL A; *INTEGRATIVE TREATISE ON NEURONAL FLOW* (B031143); 24 MONTHS \$50,000

STATE UNIVERSITY AT STONY BROOK

BROWN, LEROY T; *FINE STRUCTURE OF MAMMALIAN SPINAL CORD* (B031179); 24 MONTHS \$40,300

IRVING, RONALD E; *COMPARATIVE ANATOMICAL INVESTIGATION OF THE AUDITORY SYSTEM* (B031610); 24 MONTHS \$41,700

SYRACUSE UNIVERSITY

WAYNER, MATTHEW J; *NEURAL REGULATION OF INGESTIVE BEHAVIOR* (B018414 002); 12 MONTHS \$29,100

UNIVERSITY OF ROCHESTER

KELLY, DONALD H; *EFFECTS OF CHROMATIC ADAPTATION ON SINE-WAVE THRESHOLDS* (B030782); 10 MONTHS \$9,900

BROWN, JOHN LOTT; *CONFERENCE- DEVELOPMENTAL ASPECTS OF VISION* (B032519); 12 MONTHS \$4,900

COLUMBIA UNIVERSITY-COLLEGE OF PHYSICIANS AND SURGEONS

KARLIN, ARTHUR; *MOLECULAR INTERACTIONS OF THE ACETYLCHOLINE RECEPTOR* (B015904 001); 24 MONTHS \$56,500

SIMPSON, LANCE L; *MECHANISM OF ACTION OF TYPE A BOTULINUM TOXIN* (B032146); 24 MONTHS \$35,000

CORNELL UNIVERSITY-MEDICAL COLLEGE

SECHZER, JERI; *DEVELOPMENT AND LEARNING* (B032169); 24 MONTHS \$40,000

UNIVERSITY OF ROCHESTER-SCHOOL OF MEDICINE AND DENTISTRY

WOODWARD, DONALD J; *DEVELOPMENT OF CEREBELLUM* (B028873 X01); 12 MONTHS \$28,500

NORTH CAROLINA

DUKE UNIVERSITY

PEELE, TALMAGE L; *STUDY OF THE AMYGDALA AND CORTICO-AMYGDALAR CONNECTIONS* (B030659); 24 MONTHS \$26,400

ERICKSON, ROBERT P; *NEURAL CODE FOR TASTE* (B033464 X00); 12 MONTHS \$25,000

NORTH CAROLINA FDN MENTAL HLTH RES-D DIX HOSP

OPPENHEIM, RONALD W, AND FOELIX, RAINER F; *SYNAPTGENSIS AND FUNCTION OF EMBRYONIC SPINAL CORD* (B031874); 24 MONTHS \$43,200

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

HARTER, M RUSSELL; *PERCEPTION AND VISUALLY EVOKED CORTICAL RESPONSE CORRELATES OF PATTERNED STIMULI* (B008053 001); 12 MONTHS \$24,900

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL-SCHOOL OF MEDICINE

OBRIEST, PAUL A; *A CONFERENCE ON CONTEMPORARY TRENDS IN PSYCHOPHYSIOLOGY* (B031844); 12 MONTHS \$6,000

OHIO

UNIVERSITY OF TOLEDO

DIEHN, BODO; *BIOCHEMISTRY AND BIOPHYSICS OF PHOTOTAXIS* (B018701 001); 24 MONTHS \$37,500

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UNIVERSITY OF OREGON - EUGENE

TUNTURI, ARCHIE R; *ANATOMIC STUDY OF THE NERVE NETWORKS OF THE AUDITORY CORTEX* (B018133 001); 24 MONTHS \$50,000

KIMBLE, DANIEL P; *BEHAVIORAL FUNCTIONS OF THE MAMMALIAN HIPPOCAMPUS* (B030348); 24 MONTHS \$40,000

HOYLE, GRAHAM; *NEURAL MECHANISMS UNDERLYING BEHAVIOR* (B032018 X00); 12 MONTHS \$49,000

PENNSYLVANIA

ALBERT EINSTEIN MEDICAL CENTER

BOROFF, DANIEL A; *CHEMISTRY AND BIOLOGICAL ACTIVITY OF THE NEUROTOXIN OF CLOSTRIDIUM BOTULINUM* (B030588); 18 MONTHS \$30,000

BRYN MAWR COLLEGE

OPPENHEIMER, JANE H; *DEVELOPMENTAL STUDIES ON FUNDULUS* (B033309 X00); 12 MONTHS \$11,900

TEMPLE UNIVERSITY

ROBERTS, SHEPHERD K, AND MOTE, MICHAEL I; *LOCALIZATION OF BIOLOGICAL CLOCK ACTIVITY IN THE BRAIN* (B030497); 24 MONTHS \$35,200

UNIVERSITY OF PENNSYLVANIA

HURVICH, LEO M; *QUANTITATIVE THEORETICAL AND EXPERIMENTAL ANALYSIS OF ANOMALOUS COLOR VISION* (B032042); 24 MONTHS \$42,000

TEITELBAUM, PHILIP; *NEUROCHEMICAL ANALYSIS OF THE LATERAL HYPOTHALAMIC SYNDROME* (B033440); 12 MONTHS \$20,000

BRAUN, PETER E; *BIOCHEMICAL MECHANISMS OF NERVE CONDUCTION* (B033713); 24 MONTHS \$50,000

MULTERTIES, E L, AND PRETI, GEORGE; *STUDY OF THE COMPONENTS IN MAMMALIAN SECRETIONS AND EXCRETION* (B034878); 12 MONTHS \$34,800

UNIVERSITY OF PITTSBURGH

STRICKER, EDWARD M; *PSYCHOBIOLOGY OF BODY FLUID REGULATION* (B028830 X01); 12 MONTHS \$25,000

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WANG, MICHAEL B; *THE NEURAL CODING OF THE TASTE SENSATION IN THE RAT AND HAMSTER* (B031545); 24 MONTHS \$11,900

UNIVERSITY OF PENNSYLVANIA-SCHOOL OF MEDICINE

FLEXNER, LOUIS B, AND SEROTA, ROGER G; *ROLE OF NOREPINEPHRINE IN MEMORY* (B030503); 12 MONTHS \$26,900

KISSILEFF, HARRY R, AND QUARTERMAIN, DAVID; *GASTROINTESTINAL CONTROLS OF FOOD INTAKE* (B033219); 24 MONTHS \$50,100

UNIVERSITY OF PITTSBURGH-SCHOOL OF MEDICINE

MAST, TRUMAN E; *BINAURAL INTERACTION AND FUNCTIONAL ORGANIZATION IN COCHLEAR NUCLEI'S* (B033618); 24 MONTHS \$32,200

RHODE ISLAND

BROWN UNIVERSITY

CSERR, HELEN F; *THE PHYLOGENY AND ONTOGENY OF BRAIN-BARRIER MECHANISMS* (B028474 001); 16 MONTHS \$21,900

TENNESSEE

UNIVERSITY OF TENNESSEE MED UNITS AT MEMPHIS

BARRETT, TERENCE W; *EFFECT OF INTERAURAL ACOUSTICAL SIGNALS ON THE 'Q' VALUE OF CAT CORTICAL NEURONS* (B030359); 12 MONTHS \$19,900

VANDERBILT UNIVERSITY

MALANEY, GEORGE W; *ROLE OF WATERBORNE MERCURY IN THE INCIDENCE OF MENTAL ILLNESS* (B031881); 12 MONTHS \$9,500

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GLANTZ, RAYMON M; *CODING OF VISUAL INFORMATION BY THE CRAYFISH NERVOUS SYSTEM* (B033561); 24 MONTHS \$39,900

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UNIV OF TEXAS GRAD SCHOOL OF BIOMED SCIENCES

BENOLKEN, ROBERT M; *ELECTRO-CHEMICAL INTERMEDIATES OF THE RETINA* (B033489); 24 MONTHS \$39,700

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LAWSON, ROBERT B; *HUMAN STEREOSCOPIC DEPTH AND CONTOUR PERCEPTION* (B050370); 24 MONTHS \$27,500

VIRGINIA

WASHINGTON AND LEE UNIVERSITY

JARRARD, LEONARD E; *THE HIPPOCAMPUS AND MOTIVATION* (B010113); 12 MONTHS \$20,000

UNIVERSITY OF VIRGINIA-SCHOOL OF MEDICINE

BENEVENTO, LOUIS A; *ANATOMICAL ANALYSIS OF VISUAL SYSTEM* (B033344 X00); 12 MONTHS \$24,000

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UNIVERSITY OF WASHINGTON

SACKETT, GENE P, AND BOWDEN, DOUGLAS M; *THE EFFECTS OF ELECTRICAL BRAIN STIMULATION ON BEHAVIORAL DEVELOPMENT* (B031149); 24 MONTHS \$40,000

WILLOWS, A O DENNIS; *NEURONAL MECHANISMS OF STEREOTYPED BEHAVIOR* (B033720 X00); 12 MONTHS \$35,000

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

WASSERMAN, GERALD S; *NEUROPHYSIOLOGIC AND BEHAVIORAL STUDIES OF VISION* (B003481 002); \$4,700

HAILMAN, JACK P; *BEHAVIORAL AND PHYSIOLOGICAL ASPECTS OF ANURAN PHOTOTAXIS AND COLOR VISION* (B02224 X01); 12 MONTHS \$23,800

DAVENPORT, JOHN W; *THYROID FUNCTION AND INTELLIGENCE* (B031982); 24 MONTHS \$43,000

UNIVERSITY OF WISCONSIN, MILWAUKEE

KHAVARI, KHALIL A; *NEUROCHEMICAL SUBSTRATES OF REWARD AND PUNISHMENT* (B044363 001); 12 MONTHS \$21,000

ASTRONOMY, MATHEMATICS, PHYSICS, AND CHEMISTRY

ASTRONOMY

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LOWELL OBSERVATORY

FRANZ, OTTO G; *PHOTOMETRY AND ASTROMETRY OF VISUAL DOUBLE STARS* (P020090 001); 12 MONTHS \$23,000

CICLAS, HENRY L; *PROPER MOTION SURVEY WITH THE 13-INCH PHOTOGRAPHIC TELESCOPE OF THE LOWELL OBSERVATORY* (P023863 001); 12 MONTHS \$28,500

UNIVERSITY OF ARIZONA

BOK, BART J; *BLUE STARS AT LOW GALACTIC LATITUDES* (P013949 001); 12 MONTHS \$43,900

JOHNSON, HAROLD L; *MICHELSON (FOURIER TRANSFORM) SPECTROSCOPY* (P022057 001); 12 MONTHS \$43,500

GEHRELS, A M J TOM; *PROJECT POLARISCOPE* (P022204 001*); 12 MONTHS \$55,100

LOW, FRANK J, AND RIEKE, GEORGE H; *INFRARED RADIATION FROM GALACTIC NUCLEI AND QUASI-STELLAR OBJECTS* (P031458); 12 MONTHS \$40,700

THOMPSON, RODGER I; *ANALYSIS OF THE INFRARED SPECTRA OF LATE STARS* (P031607); 12 MONTHS \$10,000

ROSENDHAL, JEFFREY D; *SPECTROSCOPIC STUDIES OF HIGH-LUMINOSITY STARS* (P031810); 12 MONTHS \$13,900

WEYMANN, R J, AND WILLIAMS, R E; *SPECTROSCOPIC STUDIES OF QUASI-STELLAR OBJECTS AND SEYFERT GALAXY NUCLEI* (P032130); 12 MONTHS \$14,900

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

SARGENT, W L W, AND SEARLE, L; *SUPERNOVAE AND COMPACT GALAXIES* (P021684 001); 12 MONTHS \$42,800

THORNE, KIP S; *RELATIVISTIC AND NUCLEAR ASTROPHYSICS* (P027301 001); 12 MONTHS \$166,000

STANLEY, GORDON J; *ASTRONOMY RESEARCH AT THE OWENS VALLEY RADIO OBSERVATORY* (P030100 X00); 12 MONTHS \$469,000

OKE, J B, AND GUNN, J E; *COSMOLOGICAL STUDY OF VERY FAINT GALAXIES* (P031417); 12 MONTHS \$43,700

STANFORD UNIVERSITY

BRACEWELL, R N; *INVESTIGATIONS WITH THE STANFORD FIVE-ANTENNA ARRAY* (P021322); 12 MONTHS \$150,300

UNIVERSITY OF CALIFORNIA, BERKELEY

KING, IVAN B; *STRUCTURE OF STELLAR SYSTEMS* (P021400 001); 12 MONTHS \$28,700

KUHI, LEONARD V; *STARS WITH INFRARED EXCESSES* (P030349); 24 MONTHS \$48,900

WEAVER, HAROLD; *RADIO ASTRONOMICAL STUDIES* (P03044 X00); 12 MONTHS \$310,000

GAUSTAD, JOHN E; *INFRARED ASTRONOMY* (P031399 X00); 12 MONTHS \$86,300

UNIVERSITY OF CALIFORNIA, IRVINE

REINES, FREDERICK; *CONFERENCE - SOLAR NEUTRINOS, STATUS AND PROSPECTS* (P034431); 6 MONTHS \$2,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

ALLEN, LAWRENCE H; *CHEMICAL COMPOSITIONS OF STARS AND GASEOUS NEBULAE* (P031504 X00); 12 MONTHS \$19,000

LINGELFELTER, RICHARD E; *COSMIC RAY AND SOLAR PARTICLE STUDIES* (P031620); 12 MONTHS \$11,800

POPPER, D M, AND PLAVEC, M; *CLOSE BINARY STARS* (P022226 X00); 12 MONTHS \$55,600

UNIVERSITY OF CALIFORNIA, SAN DIEGO

BURBIDGE, E MARGARET, AND STEIN, WAYNE A; *THEORETICAL AND OBSERVATIONAL STUDIES IN STELLAR AND INTERSTELLAR ASTROPHYSICS* (P030645 X00); 12 MONTHS \$53,700

RICKETT, BARNABY J, AND HANKINS, TIMOTHY H; *STUDIES OF PULSAR RADIO SIGNALS AFTER REMOVING INTERSTELLAR DISPERSION* (P031486); 12 MONTHS \$28,000

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

WAMPLER, E J; *DIGITAL IMAGE TUBE SYSTEMS FOR FAINT STAR SPECTROPHOTOMETRY* (P021681 001); 12 MONTHS \$104,000

FAULKNER, JOHN, AND BODENHEIMER, PETER H; *STELLAR STRUCTURE AND EVOLUTION* (P032337 X00); 12 MONTHS \$60,000

UNIVERSITY OF CALIFORNIA, SANTA CRUZ-LICK OBSERVATORY

VASILEVSKIS, S; *STELLAR PROPER MOTIONS AND PARALLAXES* (P024359 001); 12 MONTHS \$41,000

VASILEVSKIS, S; *ADDITION OF ON-LINE COMPUTER TO THE LICK OBSERVATORY AUTOMATIC MEASURING SYSTEM* (P024439); 12 MONTHS \$55,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO-REVELLE COLLEGE

BURBIDGE, E MARGARET, AND BURBIDGE, GEOFFREY R; *EXTERNAL GALAXIES AND QUASI-STELLAR OBJECTS* (P020220 001); 14 MONTHS \$50,000

CANADA

UNIVERSITY OF TORONTO

MACRAE, D A; *COLLOQUIUM ON VARIABLE STARS IN GLOBULAR CLUSTERS AND IN RELATED SYSTEMS* (P034219); 12 MONTHS \$3,000

COLORADO

UNIVERSITY OF COLORADO

GARSTANG, ROY HENRY; *ATOMIC OSCILLATOR STRENGTHS AND CROSS SECTIONS FOR ASTRONOMICAL APPLICATIONS* (P020698 001); 12 MONTHS \$45,000

COX, JOHN P, AND HANSEN, CARL; *STELLAR STRUCTURE AND EVOLUTION* (P020771 001); 12 MONTHS \$50,500

WARWICK, JAMES, AND DULK, GEORGE; *RADIO-ASTRONOMY STUDIES* (P022032 001); 12 MONTHS \$130,000

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WESLEYAN UNIVERSITY

UPGREN, ARTHUR R; *PARALLAXES AND PROPER MOTIONS* (P013772 001); 12 MONTHS \$25,300

ROOD, HERBERT J, AND PAGE, THORNTON L; *GALAXIES AND CLUSTERS OF GALAXIES* (P012020 001); 12 MONTHS \$60,700

HILL, HENRY A; *MEASUREMENT OF THE GRAVITATIONAL DEFLECTION OF LIGHT AT THE SANTA CATALINA LABORATORY FOR EXPERIMENTAL RELATIVITY BY ASTROMETRY (SCLERA)* (P024507 001); 12 MONTHS \$50,800

YALE UNIVERSITY

CLEMENCE, GERALD M; *ORBITAL MECHANICS* (P024495); 12 MONTHS \$35,000

NEWELL, E BARRY; *ELECTRONOGRAPHIC PHOTOMETRY OF BLUE STARS IN THE GLOBULAR CLUSTER M13* (P011593 X00); 12 MONTHS \$12,900

DEMARQUE, PIERRE; *STELLAR EVOLUTION* (P024443 X00); 12 MONTHS \$55,700

YALE-COLUMBIA SOUTHERN OBSERVATORY INC

CLEMENCE, G M; *POSITIONS OF SOUTHERN STARS BY REFERENCE TO GALAXIES* (P024683 001); 12 MONTHS \$52,500

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NATIONAL ACADEMY OF SCIENCES

KROPP, B L; *ASTROMETRIC RESEARCH IN THE SOUTHERN HEMISPHERE* (C910007 018); 12 MONTHS \$35,000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

UNDERHILL, ANNE B; *WORKING CONFERENCE ON STELLAR CHROMOSPHERES* (AG000891); 6 MONTHS \$3,200

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

HAYES, R V; *FLIGHT SUPPORT SERVICES FOR X-RAY ASTRONOMY BALLOON FLIGHTS FROM AUSTRALIA* (AG00087 001); 12 MONTHS \$27,000
 MARTIN, WALTER F; *PURCHASE OF BALLOONS AND HELIUM IN SUPPORT OF COSMIC GAMMA RAY FLIGHTS IN AUSTRALIA BY GLENN M. FRYE, JR.* CASE WESTERN RESERVE UNIVERSITY (AG00088); 12 MONTHS \$12,000

FLORIDA

UNIVERSITY OF FLORIDA

SMITH, ALEX G; *RADIO OBSERVATIONS OF JUPITER AND SATURN FROM CHILE* (P010998 001); 12 MONTHS \$16,900
 SMITH, ALEX G; *PLANETARY EMISSIONS AT RADIO FREQUENCIES* (P02134 001); 12 MONTHS \$71,000
 WOOD, FRANK BRADSHAW; *THE DISCOVERY AND STUDY OF VARIABLE STARS IN THE SOUTHERN HEMISPHERE* (P031710 X00); 12 MONTHS \$25,000

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JEFFERIES, JOHN T; *THEORETICAL STUDIES IN FORMATION AND ANALYSIS OF SPECTRAL LINES* (P031750 X00); 12 MONTHS \$45,700

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BAUTZ, LAURA P; *OTHER PROGRAM AWARDS (01AWDS)*; 15 MONTHS \$32,600

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BAUTZ, LAURA P; *STUDIES IN THE PHYSICAL CHARACTERISTICS OF GALAXIES* (P029737 001); 15 MONTHS \$6,600

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KALER, JAMES B; *SPECTRA OF PLANETARY NEBULAE* (P022957 001); 21 MONTHS \$22,600

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BOND, HOWARD E; *METAL-DEFICIENT RED-GIANT STARS OF THE OALACTIC HALO* (P031709); 12 MONTHS \$8,100

LOUISIANA STATE UNIVERSITY, BATON ROUGE-AGRICULTURAL EXPERIMENT STATION

LANDOLT, ARLO U; *OBSERVATIONS OF ECLIPSING BINARY STAR HD 45841 IN AN INTERNATIONAL COOPERATIVE PROGRAM* (P031504); 6 MONTHS \$1,200

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UNIVERSITY OF MARYLAND, COLLEGE PARK

ERICKSON, WILLIAM C; *RADIO ASTRONOMICAL WORK AT THE CLARK LAKE RADIO OBSERVATORY* (P019401 001); 12 MONTHS \$90,000
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WESTERHOUT, GART; *THE MARYLAND-GREEN BANK 21-CM LINE SURVEY* (P031940); 7 MONTHS \$36,500

WENTZEL, DONAT G; *INTERSTELLAR WINDS DRIVEN BY COSMIC RAYS* (P031748); 12 MONTHS \$5,100

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GREENSTEIN, GEORGE; *SUPERFLUIDITY IN NEUTRON STARS* (P031410); 24 MONTHS \$27,800

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LEWIN, W H G; *X-RAY ASTRONOMY BALLOON FLIGHTS* (P019778 001); 12 MONTHS \$51,200

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HARRISON, GEORGE R; *TECHNIQUES OF RULINO LARGE DIFFRACTION GRATINGS* (P020091 001); 12 MONTHS \$33,300

BARRETT, ALAN H; *RADIO ASTRONOMY OBSERVATIONS* (P020769 001); 12 MONTHS \$15,300

BURKE, BERNARD F; *RADIO ASTRONOMY* (P01134 001); 12 MONTHS \$160,600

MORRISON, PHILIP; *THEORETICAL ASTROPHYSICS AND COSMOLOGY* (P030880 X00); 12 MONTHS \$50,600

BRIDGE, HERBERT S; *EXPERIMENTAL ASTROPHYSICS* (P031978); 12 MONTHS \$120,000

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SEBRING, PAUL B; *RADIO ASTRONOMY AT THE HAYSTACK OBSERVATORY* (P023865 001); 12 MONTHS \$310,700

SEBRING, PAUL B; *RADIO ASTRONOMY AT THE HAYSTACK OBSERVATORY* (P023865 002); 12 MONTHS \$149,000

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DENT, WILLIAM A; *MEASUREMENTS OF THE TIME VARIABILITY OF RADIO SOURCES* (P014690 001); 12 MONTHS \$18,000

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MAXWELL, ALAN, AND HARRIS, DANIEL E; *INTERPLANETARY SCINTILLATION TECHNIQUES APPLIED TO OALACTIC AND EXTRAGALACTIC RADIO ASTRONOMY* (P021115 001); 12 MONTHS \$37,600

LILLEY, A E; *HARVARD RADIO ASTRONOMY RESEARCH PROGRAMS* (P019717 001); 12 MONTHS \$223,400

DALGARNO, A, AND LAYZER, D; *THEORETICAL ATOMIC AND MOLECULAR PHYSICS* (P031884); 12 MONTHS \$56,000

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MILLER, FREEMAN D; *OPERATION OF THE UNIVERSITY OF MICHIGAN CURTIS MEMORIAL TELESCOPE AT CERRO TOLOLO, CHILE* (P007359 X04); 12 MONTHS \$40,700

HADDOCK, FRED T; *RADIO ASTRONOMY* (P021219 001); 12 MONTHS \$152,100

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WOOLF, NEVILLE J, AND STEIN, WAYNE A; *SIXTY INCH INFRARED TELESCOPE FACILITY* (P027983 001); 12 MONTHS \$35,900

NEY, EDWARD P; *INFRARED OBSERVING AT CERRO TOLOLO, 1972* (P032142); 12 MONTHS \$5,500

WOOLF, NEVILLE J, AND STEIN, WAYNE A; *INFRARED ASTRONOMY* (P029778); 12 MONTHS \$39,000

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COLOATE, STIRLING A. AND MOORE, ELLIOTT P; *DIGITIZED ASTROPHYSICS AND SUPERNOVA SEARCH* (P027683 001); 12 MONTHS \$80,000

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 TAYLOR, JOSEPH L; *OPERATOR THEORY IN SEVERAL VARIABLES (P003431)*; 24 MONTHS \$22,500

COLES, W J; *A SYMPOSIUM ON ORDINARY DIFFERENTIAL EQUATIONS (P003394)*; 6 MONTHS \$2,000
 TUCKER, DON H; *SYMPOSIUM ON VECTOR AND OPERATOR MEASURES AND APPLICATIONS (P003193)*; 12 MONTHS \$7,000

VERMONT

UNIVERSITY OF VERMONT

COOKE, ROGER L; **ABSOLUTE CONVERGENCE OF TRIGONOMETRIC SERIES IN SEVERAL VARIABLES** (P012882 001); 24 MONTHS \$13,400

VIRGINIA

UNIVERSITY OF VIRGINIA

SIMMONDS, JAMES O, AND DANIELSON, DONALD A; **SOME MATHEMATICAL PROBLEMS ARISING IN THIN SHELL THEORY** (P015333 001); 12 MONTHS \$14,600

MCCRIMMON, KEVIN M, AND WARD, HAROLD N; **GROUP THEORY AND JORDAN ALGEBRAS** (P028911 001); 12 MONTHS \$21,200

ROSENBLUM, MARVIN; **FUNCTIONAL AND HARMONIC ANALYSIS** (P01143 X00); 12 MONTHS \$38,400

VIRGINIA POLYTECHNIC INSTITUTE

FEUSTEL, C D; **POLYHEDRAL AND PIECEWISE LINEAR TOPOLOGY** (P013317 001); 12 MONTHS \$2,200

HOLUB, JAMES R; **TOPOLOGICAL TENSOR PRODUCTS, SPACES OF OPERATORS, AND SCHAUDER BASES** (P033778); 12 MONTHS \$5,600

WASHINGTON

UNIVERSITY OF WASHINGTON

VAN NESS, JOHN W, AND FISHER, L D JR; **APPLICATIONS OF STOCHASTIC PROCESSES** (P028591 001); 12 MONTHS \$13,000

LUMER, GUNTER, AND MOORE, ROBERT T; **FUNCTIONAL ANALYSIS** (P02727 001); 12 MONTHS \$20,000

BIRNBAUM, Z W; **DISTRIBUTION-FREE STATISTICS. COHERENT STRUCTURES** (P033109 001); 6 MONTHS \$1,000

PASTERNAK, JOEL; **DIFFERENTIABLE MANIFOLDS** (P028314 001); 12 MONTHS \$5,000

GLICKSBERG, IRVING; **HARMONIC ANALYSIS AND BANACH ALGEBRAS** (P028634 001); 12 MONTHS \$15,900

BLUMENTHAL, ROBERT M, AND GANGOLLI, RAMESH A; **ANALYSIS AND PROBABILITY THEORY** (P028924 X01); 12 MONTHS \$20,000

JANS, JAMES P; **STRUCTURE OF MODULES RINGS AND GROUPS** (P028116 001); 12 MONTHS \$28,500

CORSON, HARRY, AND PHELPS, ROBERT; **TOPOLOGICAL AND EXTREMAL PROBLEMS IN FUNCTIONAL ANALYSIS** (P028974 001); 12 MONTHS \$13,300

CURJEL, CASPAR R; **MAPPING PROBLEMS** (P028108 001); 12 MONTHS \$14,200

MICHAEL, ERNEST, AND HILTON, PETER J; **ABSTRACT SPACES** (P028107 001); 12 MONTHS \$14,100

CHAN, Y K; **CONSTRUCTIVE PROBABILITY THEORY** (P028233 001); 12 MONTHS \$4,800

WARNER, GARTH; **L-FUNCTIONS ON REDUCTIVE LIE GROUPS** (P028337 001); 12 MONTHS \$5,500

ARSOVE, MAYNARD G; **HARDY SPACES AND POTENTIAL THEORY** (P028111 001); 12 MONTHS \$9,100

PYKE, RONALD, AND SHORACK, GALEN R; **THE THEORY OF STOCHASTIC PROCESSES AND RELATED PROBLEMS IN STATISTICAL INFERENCE** (P031141 X00); 12 MONTHS \$16,000

KLEE, VICTOR, AND GRUNBAUM, BRANKO; **CONVEXITY AND COMBINATORICS** (P021591); 12 MONTHS \$13,300

PEARSON, CARL E, KEVORKIAN, JIRAIR, AND VAGNERS, JURIS; **SELECTED TOPICS IN APPLIED MECHANICS** (P022030); 12 MONTHS \$26,000

HEWITT, EDWIN; **FUNCTIONAL ANALYSIS** (P022840 X00); 12 MONTHS \$26,000

DILL, ELLIS H; **DYNAMICAL STABILITY OF CONTINUOUS MEDIA** (P028950 X00); 12 MONTHS \$8,000

SEGAL, JACK; **SHAPE THEORY** (P024058); 12 MONTHS \$7,400

GOLDSTEIN, A A; **NUMERICAL ANALYSIS** (P034317); 12 MONTHS \$9,300

WASHINGTON STATE UNIVERSITY

OSTROM, T G, AND KALLAHER, M J; **TRANSLATION PLANES** (P033028 X00); 12 MONTHS \$13,200

BUSHAW, DONALD W; **CONFERENCE ON MATHEMATICAL TOPICS IN STABILITY THEORY** (P03319); 6 MONTHS \$2,000

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

SCHNEIDER, HANS; **MATRIX AND COMBINATORIAL THEORY** (P011815 009); 12 MONTHS \$15,400

HELLERSTEIN, SIMON; **FUNCTION THEORY AND RELATED ASYMPTOTIC PROBLEMS** (P021140 002); 12 MONTHS \$10,000

BUCK, R C; **MATHEMATICAL ANALYSIS** (P024182 001); 12 MONTHS \$78,000

YOUNG, LAURENCE C; **STOCHASTIC INTEGRALS, CONTROL THEORY, VARIATIONAL METHODS, AND THEIR APPLICATIONS** (P027211 001); 12 MONTHS \$11,000

NEY, PETER E; **BRANCHING PROCESSES AND POPULATION GROWTH AND MOVEMENT** (P027228 001); 6 MONTHS \$15,600

KEISLER, H JEROME; **MATHEMATICAL LOGIC AND FOUNDATIONS** (P027633 001); 12 MONTHS \$32,000

BRAUER, FRED; **GLOBAL AND ASYMPTOTIC PROBLEMS IN DIFFERENTIAL EQUATIONS** (P028887 001); 12 MONTHS \$22,800

OSBORN, J MARSHALL; **NONASSOCIATIVE ALGEBRAS** (P028404 X01); 12 MONTHS \$8,000

SOLOMON, LOUIS; **GROUPS AND GEOMETRY** (P028432 001); \$15,500

MARTIN, JOSEPH M, AND MCMILLAN, D R JR; **GEOMETRIC TOPOLOGY** (P029337 X01); 12 MONTHS \$24,800

FADELL, EDWARD R, AND HUSSEINI, SUFIAN Y; **ALGEBRAIC TOPOLOGY AND MANIFOLD THEORY** (P028338 001); \$13,000

FADELL, EDWARD R; **ALGEBRAIC TOPOLOGY AND MANIFOLD THEORY** (P028538 001); 12 MONTHS \$18,900

NOHEL, JOHN A; **NONLINEAR VOLTERRA AND DELAY EQUATIONS** (P030250); 12 MONTHS \$9,600

VAN RYZIN, JOHN; **REPETITIVE STATISTICAL DECISION PROBLEMS** (P031941); 24 MONTHS \$18,900

SOLOMON, LOUIS; **GROUPS AND GEOMETRY** (P028313 X00); 12 MONTHS \$21,300

RABINOWITZ, PAUL H, AND TURNER, ROBERT E L; **SOME QUESTIONS IN NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS AND NONLINEAR FUNCTIONAL ANALYSIS** (P028844); 12 MONTHS \$13,800

BLEICHER, M N; **STUDIES IN ANALYTIC NUMBER THEORY AND GEOMETRY OF NUMBERS** (P033048); 12 MONTHS \$7,400

LEVY, LAWRENCE S, AND WIEGAND, ROGER A; **RINGS AND MODULES** (P033344); 12 MONTHS \$11,800

MEYER, R E; **ASYMPTOTIC METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS AND APPLICATIONS** (P033378 X00); 12 MONTHS \$30,100

BUCK, R C; **MATHEMATICAL ANALYSIS** (P033897 X00); 12 MONTHS \$101,300

NEY, PETER E; **BRANCHING PROCESSES AND POPULATION GROWTH AND MOVEMENT** (P033391 X00); 12 MONTHS \$32,400

GREVILLE, T N E; **SYMPOSIUM ON POPULATION DYNAMICS** (P028304); 12 MONTHS \$7,000

PHYSICS

ARIZONA

UNIVERSITY OF ARIZONA

BOWEN, THEODORE; **ELEMENTARY PARTICLE RESEARCH WITH COUNTERS AND TRACK CHAMBERS** (P028400 001); 12 MONTHS \$153,100

DONAHUE, DOUGLAS J; **LOW ENERGY NUCLEAR PHYSICS** (P028933); 12 MONTHS \$90,000

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

CORNGLD, NOEL; **THE THEORY OF NEUTRAL PARTICLE TRANSPORT** (P029626 001); 24 MONTHS \$62,000

LAURITSEN, T; **NUCLEAR ASTROPHYSICS AND ASSOCIATED NUCLEAR PHYSICS** (P028027 001); 12 MONTHS \$1,000,000

HARVEY MUDD COLLEGE

BELL, GRAYDON D; **ABSOLUTE F-VALUES FOR SPECTRAL LINES OF HEAVY ELEMENTS** (P028143 001); 12 MONTHS \$17,000

STANFORD RESEARCH INSTITUTE

SMITH, FELIX T; **COLLISION PROCESSES INVOLVING METASTABLE ATOMS AND MOLECULES** (P021314 001); 12 MONTHS \$26,000

HILL, ROBERT M; **DYNAMIC MOLECULAR DEFLECTION** (P021880); 12 MONTHS \$51,400

STANFORD UNIVERSITY

MEYERHOF, WALTER E, AND HANNA, STANLEY S; **NUCLEAR STRUCTURE INVESTIGATIONS WITH A 15-MEV TANDEM VAN DE GRAAFF ACCELERATOR** (P028183 005); 12 MONTHS \$460,000

MEYERHOF, WALTER E, AND HANNA, STANLEY S; **NUCLEAR STRUCTURE INVESTIGATIONS WITH A 15-MEV TANDEM VAN DE GRAAFF ACCELERATOR** (P028183 006); \$4,300

FAIRBANK, W M, HOFSTADTER, ROBERT, SCHWARTZ, MELVIN, SCHWETTMAN, H A, AND WOJCIKI, STANLEY; **HIGH ENERGY PHYSICS, CRYOGENIC RESEARCH, AND GRAVITATIONAL RADIATION** (P028289 001); 12 MONTHS \$1,319,000

SCHAWLOW, ARTHUR L; **STUDIES IN SPECTROSCOPY AND QUANTUM ELECTRONICS** (P028115 001); \$18,000

SCHAWLOW, ARTHUR; **SPECTROSCOPY AND QUANTUM ELECTRONICS** (P028115 002); 12 MONTHS \$160,000

CRAWFORD, F W; **TURBULENT HEATING OF PLASMAS** (P033385); 12 MONTHS \$65,000

GLAVISH, HILTON F, HANNA, STANLEY S, AND SCHWETTMAN, H ALAN; **SUPERCONDUCTING HEAVY ION ACCELERATOR** (P033411); 6 MONTHS \$73,500

UNIVERSITY OF CALIFORNIA, BERKELEY

DAVIS, SUMNER P; **OBSERVATION AND ANALYSIS OF SPECTRA AND STRUCTURE OF ATOMS AND MOLECULES** (P013882 001); 24 MONTHS \$48,300

SACHS, RAINER X; **GENERAL RELATIVITY** (P028257 001); 12 MONTHS \$17,500

JEFFRIES, C D; THE SECOND INTERNATIONAL CONFERENCE ON POLARIZED TARGETS, LAWRENCE RADIATION LABORATORY, BERKELEY, CALIFORNIA, AUGUST AND SEPTEMBER, 1971 (P030401); 12 MONTHS \$9,500

TAUB, A H; ANALYTIC AND NUMERICAL STUDIES IN GENERAL RELATIVITY (P031334 X00?); 12 MONTHS \$14,350

UNIVERSITY OF CALIFORNIA, DAVIS

GREIDER, KENNETH, AND TRUE, WILLIAM W; THEORETICAL PHYSICS (P034013); 12 MONTHS \$60,800

JUNGERMAN, J A; NUCLEAR PHYSICS RESEARCH (P034003); 12 MONTHS \$294,500

UNIVERSITY OF CALIFORNIA, IRVINE

SHAW, GORDON L, AND BANDER, MYRON; THEORETICAL STUDIES IN HIGH ENERGY PHYSICS (P017170 001); 18 MONTHS \$48,500

RYNN, NATHAN; ALKALI METAL, BARIUM PLASMAS, AND BASIC PLASMA PHYSICS (P028638 001); 18 MONTHS \$114,400

SHAW, GORDON L; CONFERENCE ON PARTICLE PHYSICS, UNIVERSITY OF CALIFORNIA, IRVINE, DECEMBER 1971 (P031623); 12 MONTHS \$1,000

REINES, FREDERICK, AND CHEN, HERBERT HWA-SEN; ELASTIC SCATTERING AT LAMPF - A FEASIBILITY STUDY (P034860); 12 MONTHS \$93,900

UNIVERSITY OF CALIFORNIA, LOS ANGELES

NORTON, RICHARD; THEORETICAL HIGH ENERGY PHYSICS (P011881 002); 12 MONTHS \$143,000

MOZKOWSKI, STEVEN A; THEORETICAL NUCLEAR PHYSICS (P021313 001); 12 MONTHS \$40,000

FRIED, BURTON D; PLASMA PHYSICS (P028817 001); 12 MONTHS \$24,000

WONG, ALFRED Y; NON-LINEAR EFFECTS IN ELECTRON PLASMA WAVES (P028509 X01); 12 MONTHS \$58,100

WRIGHT, BYRON T; INTERNATIONAL CONFERENCE ON FEW-PARTICLE PROBLEMS IN THE NUCLEAR INTERACTION (P033376); 12 MONTHS \$9,700

SCHLEIN, PETER E; MULTI-PARTICLE SPECTROSCOPY EXPERIMENTS (P033383); 12 MONTHS \$94,400

UNIVERSITY OF CALIFORNIA, RIVERSIDE

KAUS, PETER E; HIGH ENERGY THEORETICAL PHYSICS (P028366 X00); 12 MONTHS \$30,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

CHEN, JOSEPH C Y; THEORETICAL RESEARCH ON SEVERAL PARTICLE DYNAMICS (P020439 001); 12 MONTHS \$32,500

MALMBERG, JOHN H; NONLINEAR PLASMA WAVE RESEARCH (P027180 001); 12 MONTHS \$125,000

VERNON, WAYNE; MUON INELASTIC SCATTERING AT THE NATIONAL ACCELERATOR LABORATORY (P031013); 12 MONTHS \$22,400

BRUECKNER, KEITH A; MANY-BODY THEORY AND STATISTICAL MECHANICS (P031887 X00); 12 MONTHS \$75,000

MASEK, GEORGE E; HIGH ENERGY PHYSICS (P028583); 12 MONTHS \$320,000

SWANSON, ROBERT A; ELEMENTARY PARTICLES (P034731); 12 MONTHS \$55,200

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

HARTLE, JAMES B; GENERAL RELATIVITY AND RELATIVISTIC ASTROPHYSICS (P034624 X00); 12 MONTHS \$29,000

SAWYER, RAYMOND F, FULCO, J R, AND SUGAR, R L; PROBLEMS IN THEORETICAL PHYSICS (P034637 X00); 12 MONTHS \$73,000

COLORADO

UNIVERSITY OF COLORADO

SMITH, STEPHEN J; LOW ENERGY INTERACTIONS OF ELECTRONS WITH HYDROGENIC ATOMS (P017174 001); 24 MONTHS \$74,900

DREITELIN, JOSEPH, AND WYSS, WALTER; A PROGRAM IN MATHEMATICAL PHYSICS (P019479 001); 12 MONTHS \$11,500

SMITH, STEPHEN J; THE THIRD INTERNATIONAL CONFERENCE ON ATOMIC PHYSICS (P032803); 12 MONTHS \$3,000

TAN, TAI HO; HIGH ENERGY PHYSICS (P034560); 12 MONTHS \$18,000

UNIVERSITY OF DENVER

CHOU, T T; HIGH ENERGY HADRON-HADRON COLLISIONS (P031558); 24 MONTHS \$15,000

ASPEN INSTITUTE OF HUMANISTIC STUDIES-ASPEN CENTER FOR PHYSICS INC

STRANAHAN, GEORGE S; SUMMER WORKSHOP ON CRITICAL PROBLEMS IN PHYSICS (P034873); 12 MONTHS \$33,000

CONNECTICUT

FAIRFIELD UNIVERSITY

HADJIMICHAEL, E, HARMS, E, AND NEWTON, V; EXAMINATION OF PARITY-VIOLATING FORCES BY MEANS OF RADIATIVE NEUTRON-DEUTERON CAPTURE (P033714 001); 12 MONTHS \$16,900

UNIVERSITY OF CONNECTICUT

RAWITSCHER, GEORGE H; ELECTRON-NUCLEUS AND NUCLEUS-NUCLEUS COLLISIONS (P009227 001); 12 MONTHS \$18,600

KESSEL, QUENTIN C; INNER SHELL EXCITATIONS IN HEAVY ION-ATOM COLLISIONS (P034588); 12 MONTHS \$17,200

YALE UNIVERSITY

HUGHES, VERNON W; POSITRONIUM RESEARCH (P043724 001); 12 MONTHS \$68,000

HIRSHFIELD, J L; BASIC PLASMA PHYSICS (P025943 001); 12 MONTHS \$127,000

SCHULZ, GEORGE J; COMPOUND STATES OF ATOMS AND RESONANCES IN ELECTRON SCATTERING (P027563 001); \$20,000

BOCKELMAN, CHARLES K; ELECTRON-NUCLEAR SCATTERING (P031189); 12 MONTHS \$79,500

BERNSTEIN, IRA B; TOPICS IN THEORETICAL PLASMA PHYSICS (P033374 X00); 12 MONTHS \$30,000

DISTRICT OF COLUMBIA

AMERICAN UNIVERSITY

WHITE, JOHN A; CRITICAL POINT PHENOMENA IN FLUIDS (P014118 001); 12 MONTHS \$33,000

CHERTOK, BENSON T, AND ADLER, RONALD J; NUCLEAR EXCITATION BY ELECTRONS AND PHOTONS (P016565 002); 12 MONTHS \$25,000

CATHOLIC UNIVERSITY OF AMERICA

CRANNELL, HALL, BRENNAN, JAMES O, UBERALL, HERBERT M, AND WERTZ, CARL W; INVESTIGATION OF NUCLEAR STRUCTURE BY MEANS OF ELECTROMAGNETIC AND WEAK INTERACTIONS (P034391); 12 MONTHS \$53,100

GEORGETOWN UNIVERSITY

TREADO, PAUL A, AND LAMBERT, JAMES M; INTERACTION MECHANISMS AND NUCLEAR STRUCTURE USING THREE-BODY-FINAL-STATE REACTIONS (P029187 001); 12 MONTHS \$25,000

HOWARD UNIVERSITY

GLASS, SOLOMON J, MENDLOWITZ, HAROLD, AND KLEIN, LEWIS S; THEORETICAL PHYSICS (P008424 001); 12 MONTHS \$30,000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

IVEY, JOHN H; CONSTRUCTION OF A LOW TEMPERATURE GRAVITATIONAL RADIATION DETECTOR (AG00374); 12 MONTHS \$45,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

WOOD, GEORGE W; COMMITTEE ON LINE SPECTRA OF THE ELEMENTS (C310015 009); 36 MONTHS \$12,700

REED, C K; COMMITTEE ON NUCLEAR SCIENCE (C310017 009); 12 MONTHS \$17,500

FLORIDA

FLORIDA AGRICULTURAL AND MECHANICAL UNIVERSITY

YOUROPOULOS, GEORGE; NUCLEAR PHYSICS RESEARCH (P034131); 12 MONTHS \$34,600

FLORIDA STATE UNIVERSITY

EDWARDS, STEVE, AND ROBSON, DONALD; THEORETICAL LOW ENERGY NUCLEAR PHYSICS (P015835 001); 24 MONTHS \$150,000

DAVIS, R H; NUCLEAR REACTIONS AND SPECTROSCOPY (P025974 001); 12 MONTHS \$424,000

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

FINK, R W; INTERNATIONAL CONFERENCE ON INNER SHELL IONIZATION PHENOMENA (P031835); 12 MONTHS \$6,400

UNIVERSITY OF GEORGIA

STUEVER, M F, DUNCAN, M M, AND WOOD, R M; NUCLEAR PHYSICS (P027929 001); 12 MONTHS \$80,000

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY

WARNOCK, ROBERT L; NONLINEAR ANALYSIS AND STRONG INTERACTIONS (P018638 001); 24 MONTHS \$23,900

BURNSTEIN, RAY A; PROPERTIES OF MESONS AND HYPERONS (P028373 001); \$15,200

BURNSTEIN, RAY A; PROPERTIES OF ELEMENTARY PARTICLES (P028375 002); 12 MONTHS \$70,200

NATIONAL ACCELERATOR LABORATORY

GOLDWASSER, EDWIN L; XVI INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS (AG00388); 6 MONTHS \$30,000

NORTHWESTERN UNIVERSITY

BROWN, LAURIE M, AUVIL, PAUL R, DESHPANDE, NILENDRA G, KAYSER, BORIS J, AND OAKES, ROBERT J; THEORY OF THE FUNDAMENTAL PARTICLES (P025805 001); 12 MONTHS \$70,000

SEGEL, RALPH E; NUCLEAR STRUCTURE RESEARCH (P025488 001); 12 MONTHS \$13,000

UNIVERSITY OF CHICAGO

ROOHAAN, CLEMENS C J; QUANTUM MECHANICAL STUDIES OF ATOMS AND SMALL MOLECULES (P021133 001); 12 MONTHS \$65,200
 THOMPSON, R W; THE NATURE AND INTERACTIONS OF HIGH ENERGY ELEMENTARY PARTICLES (P021709 001); \$14,600
 PARKER, EUGENE N; THE NATURE AND INTERACTIONS OF HIGH ENERGY ELEMENTARY PARTICLES (P021709 002); 3 MONTHS \$44,900
 TELEODI, V L; KAON EXPERIMENTS AND FURTHER STUDIES OF MUONIUM (P022971 001); 12 MONTHS \$325,000
 CRONIN, JAMES W; HIGH ENERGY PHYSICS (P022322 001); 12 MONTHS \$240,000

GELFAND, N M; BUBBLE CHAMBER PHYSICS (P022663 001); 12 MONTHS \$21,000

LEVI SETTI, R; HYPERON RESONANCE FORMATION IN THE 1 GEV/C REGION (P022709 001); 12 MONTHS \$70,000

HILDEBRAND, R H; EXPERIMENTAL STUDIES OF RARE LEPTONIC AND SEMI-LEPTONIC PROCESSES (P022717 001); 12 MONTHS \$75,000

ANDERSON, H L, WRIGHT, S C, AND MO, LUKE W; INELASTIC SCATTERING OF MUONS AT NA1 (P022873 001); 12 MONTHS \$445,000

WINSTON, ROLAND; EXPERIMENTAL STUDY OF WEAK INTERACTIONS (P022594); 12 MONTHS \$149,000

NAMBU, YOICHIRO; ELEMENTARY PARTICLE PHYSICS (P022904 X00); 12 MONTHS \$230,000

ANDERSON, H L; HIGH ENERGY PHYSICS RESEARCH AT THE BEVATRON (P021410); 12 MONTHS \$24,000

CHANDRASEKHAR, S; GRAVITATIONAL PHYSICS AND RELATIVISTIC ASTROPHYSICS (P021371 X00); 12 MONTHS \$29,200

UNIVERSITY OF ILLINOIS AT URBANA

BAYM, GORDON, AND WORTIS, MICHAEL; PROPERTIES OF SOLIDS AND MANY PARTICLE SYSTEMS (P018226 001*); 24 MONTHS \$39,550

RAVENHALL, D G, AND WYLD, H W JR; THEORETICAL PARTICLE PHYSICS (P015303 001); 12 MONTHS \$129,000

FRAUENFELDER, HANS, AND DEBRUNNER, PETER G; NUCLEAR PHYSICS AND RELATED SUBJECTS (P022222 001); 12 MONTHS \$100,000

AXEL, PETER; SUPERCONDUCTING ELECTRON ACCELERATOR AND NUCLEAR STRUCTURE RESEARCH (P022413 001); 12 MONTHS \$300,000

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

BENT, R D, EMERY, G T, MILLER, D W, LANGER, L M, AND SINGH, P P; NUCLEAR STRUCTURE AND NUCLEAR PROCESSES (P022131 001); 12 MONTHS \$650,000

MARTIN, HUGH J, ALYEA, ETHAN D JR, CALLOWAY, KENNETH F, MERCER, ROBERT A, AND MOTT, JACK E; ELEMENTARY PARTICLE INTERACTIONS USING BUBBLE CHAMBERS (P022279 001); 12 MONTHS \$115,000

NEWTON, ROGER G; INVESTIGATIONS IN THE THEORY AND INTERPRETATION OF PARTICLE COLLISIONS (P021257); 24 MONTHS \$52,000

PURDUE UNIVERSITY

STEFFEN, ROLF M, AND SCHARENBERG, ROLF P; NUCLEAR STRUCTURE RESEARCH WITH AN FN TANDEM VAN DE GRAAFF ACCELERATOR (P022022); 12 MONTHS \$200,000

UNIVERSITY OF NOTRE DAME

KENNEY, V PAUL, AND POISIER, JOHN A; ELEMENTARY PARTICLE INTERACTIONS (P022221 001); 12 MONTHS \$253,500

BROWNE, CORNELIUS P; NUCLEAR STRUCTURE RESEARCH (P021456 001); 12 MONTHS \$425,000

MHELICH, JOHN W; AN INVESTIGATION OF NUCLEAR ENERGY LEVELS (P022033); 12 MONTHS \$26,900

MARSHALEK, EUGENE R, AND SHANLEY, PAUL E; THEORETICAL STUDIES OF NUCLEAR STRUCTURE AND REACTIONS (P022117 X00); 12 MONTHS \$21,000

JOHNSON, WALTER R; APPLICATIONS OF QUANTUM ELECTRODYNAMICS TO PROCESSES OF CURRENT INTEREST IN ATOMIC, NUCLEAR, AND ELEMENTARY PARTICLE PHYSICS (P022217 X00); 12 MONTHS \$23,500

KANSAS

UNIVERSITY OF KANSAS

AMMAR, RAYMOND G, AND STUMP, ROBERT; HIGH ENERGY INTERACTIONS USING BUBBLE CHAMBERS (P022318 001); 12 MONTHS \$97,000

KRONE, RALPH W, AND PROSSER, F W JR; NUCLEAR STRUCTURE STUDIES OF LIGHT AND MEDIUM LIGHT NUCLEI (P022053); 12 MONTHS \$100,000

KENTUCKY

UNIVERSITY OF KENTUCKY

KERN, B D, AND MCELLISTREM, M T; NUCLEAR STRUCTURE AND NUCLEAR REACTION MECHANISMS (P022039 002); 6 MONTHS \$70,000

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

HUSSEY, ROBERT G; UNSTEADY FLOW IN VISCOUS FLUIDS (P015520 001); 12 MONTHS \$20,300

HAMILTON, WILLIAM O; EXPERIMENTAL INVESTIGATIONS IN GRAVITATION (P022740 002); 12 MONTHS \$109,500

TULANE UNIVERSITY

DURHAM, FRANK E, WILENZICK, RAYMOND M, AND BUCCINO, SALVATORE G; OPERATION OF A NUCLEAR PHYSICS LABORATORY (P021358 001); 12 MONTHS \$79,900

MARYLAND

JOHNS HOPKINS UNIVERSITY

PEVSNER, AIHUD; HIGH ENERGY PARTICLE PHYSICS (P017142 001); 12 MONTHS \$339,200

JUDD, B R, AND ARMSTRONG, LLOYD JR; THEORY OF ATOMIC STRUCTURE (P022071); 24 MONTHS \$47,600

CROSSWHITE, H M; OPTICAL SPECTROSCOPY OF IONS AND MOLECULES (P021537); 12 MONTHS \$43,000

UNIVERSITY OF MARYLAND, COLLEGE PARK

KRISHER, LAWRENCE C; MOLECULAR PROPERTIES FROM MICROWAVE SPECTROSCOPIC STUDIES (P014304 001); 24 MONTHS \$44,700

GRIEM, H R, AND DESILVA, A W; PLASMA HEATING, LIGHT SCATTERING AND SPECTROSCOPY (P012242 001); 24 MONTHS \$143,000

MISNER, CHARLES W; THEORETICAL STUDIES OF GRAVITY (P017272 001); \$12,400

GREENBERG, O W, AND ONEDA, S; ELEMENTARY PARTICLE THEORY AND QUANTUM FIELD THEORY (P022709 001); 12 MONTHS \$29,000

WEBER, JOSEPH; GRAVITATIONAL RADIATION EXPERIMENTS (P022548 001); 12 MONTHS \$200,000

YODH, GAURANG B; STRONG INTERACTIONS FROM 100 GEV TO 3000 GEV (P022504 001); 12 MONTHS \$229,500

TRIVELPIECE, A W, PECHACEK, R E, AND DAVIDSON, R C; HIGH TEMPERATURE PLASMAS (P021355 001); 12 MONTHS \$215,000

BENESCH, WILLIAM M, COPLAN, M A, AND WILKERSON, T D; ATOMIC AND MOLECULAR PROCESSES BEARING ON PHENOMENA (P022213 001); 12 MONTHS \$28,900

DORFMAN, J ROBERT; STATISTICAL PHYSICS (P022223 001); 12 MONTHS \$11,000

REISER, M P, ZORN, G T, AND KIM, HOGIL; AN ELECTRON RING ACCELERATOR WITH STATIC COMPRESSION SYSTEM (P022706 001); 12 MONTHS \$378,000

SUCHER, JOSEPH, AND DRAOT, ALEX; FOUNDATIONS OF RELATIVISTIC QUANTUM THEORY, INTERACTIONS OF HADRONS, AND ELECTROMAGNETIC INTERACTIONS OF ELEMENTARY SYSTEMS (P022142); 12 MONTHS \$27,000

MISNER, CHARLES W; THEORETICAL STUDIES OF GRAVITY (P017272 X00); 12 MONTHS \$21,500

MARTIN, FREDERICK W; X-RAY PRODUCTION BY HEAVY IONS (P021274); 12 MONTHS \$43,900

MASSACHUSETTS

HARVARD UNIVERSITY

RAMSEY, NORMAN F; A NEUTRON ELECTRIC DIPOLE MOMENT EXPERIMENT AT GRENoble (P021140*); 48 MONTHS \$11,000

RAMSEY, NORMAN F; MOLECULAR BEAM AND HYDROGEN MASER RESEARCH (P013347 X01); 12 MONTHS \$90,000

RAMSEY, NORMAN F; MOLECULAR BEAM AND HYDROGEN MASER RESEARCH (P013347 X02); \$20,000

PIPKIN, FRANCIS M; ATOMIC PHYSICS EXPERIMENTS USING FAST ATOMIC BEAMS AND PHOTON COINCIDENCE TECHNIQUES (P022221 001); 12 MONTHS \$29,400

COLEMAN, SIDNEY R, AND GLAUBER, ROY J; INTERACTIONS OF PARTICLES AND FIELDS (P020219 X00); 12 MONTHS \$60,100

JAFFE, ARTHUR M; MATHEMATICAL PHYSICS (P021229 X00*); 12 MONTHS \$14,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

JAVAN, ALI; ATOMIC AND MOLECULAR PROCESSES WITH MODERN PRECISION SPECTROSCOPIC TECHNIQUES (P015121 001); \$50,000

KLEPPNER, DANIEL; ATOMIC INTERACTIONS (P022479 001); \$24,700

CHENG, HUNG; HIGH-ENERGY COLLISIONS (P022465 001); 12 MONTHS \$25,000

NORTHEASTERN UNIVERSITY

GETTNER, MARVIN, AND WEINSTEIN, ROY; EXPERIMENTS AT THE NATIONAL ACCELERATOR LABORATORY (P022307 001); \$27,200

ARNOWITT, RICHARD, AARON, RONALD, GOLDBERG, HYMAN, AND SRIVASTAVA, YOGENDRA; PARTICLE THEORY (P022242 001); 18 MONTHS \$56,400

SOUTHEASTERN MASSACHUSETTS UNIVERSITY

KERN, WOLFHARD; HIGH ENERGY COLLIDING EOE- BEAMS WITH A MAGNETIC DETECTOR (P022222); 12 MONTHS \$55,300

TUFTS UNIVERSITY

WEAVER, DAVID; THEORY OF ELEMENTARY PARTICLES (P021222); 12 MONTHS \$7,500

UNIVERSITY OF MASSACHUSETTS, AMHERST

KROTKOV, ROBERT V; SCATTERING OF METASTABLE HYDROGEN ATOMS (P010923 002); 12 MONTHS \$24,300

BREHM, JOHN J. AND COOK, LEROY F; *ELEMENTARY PARTICLE THEORY* (P01888 001); 24 MONTHS \$112,300
 JONES, PHILLIPS R; *OUTER SHELL EXCITATION IN HEAVY-ATOM COLLISIONS* (P01004 008); 12 MONTHS \$19,000
 STERNHEIM, MORTON M; *THEORY OF INTERACTIONS OF MESONS AND NUCLEONS WITH NUCLEI* (P016277 001); 24 MONTHS \$7,000
 FREYTAG, DIETRICH; *HIGH ENERGY PHYSICS - COLLABORATIVE EXPERIMENT AT NAL* (P048861); 12 MONTHS \$192,0

WILLIAMS COLLEGE

CRAMPTON, STUART B; *HYDROGEN SPIN EXCHANGE PARAMETERS USING A HYDROGEN MASER* (P01459 001); 24 MONTHS \$40,800

MICHIGAN

MICHIGAN STATE UNIVERSITY

EDWARDS, T H; *MOLECULAR SPECTRA IN THE NEAR INFRARED REGION* (P04444 001); 12 MONTHS \$31,500
 BLOSSER, HENRY R; *NUCLEAR PHYSICS PROGRAM* (P02742 001); 12 MONTHS \$75,000
 ABOLINS, MARIS A. AND CHEN, K WENDALL; *INELASTIC MUON SCATTERING AND NEUTRON-PROTON SCATTERING* (P029070 001); 12 MONTHS \$31,100
 CHEN, K WENDALL; *INELASTIC MUON SCATTERING AND NEUTRON-PROTON SCATTERING* (P029070 002); 3 MONTHS \$95,000
 MCMANUS, HUGH; *SCATTERING PROBLEMS AND THE THEORY OF NUCLEAR STRUCTURE* (P031465 X00); 12 MONTHS \$52,500
 SIGNELL, PETER; *THE NUCLEON-NUCLEON INTERACTION* (P031940 X00); 12 MONTHS \$40,000
 SIGNELL, PETER; *THE NUCLEON-NUCLEON INTERACTION* (P031940 X01); \$4,400
 SMITH, GERALD A; *HIGH ENERGY PHYSICS* (P031702); 12 MONTHS \$80,700

UNIVERSITY OF MICHIGAN

FEDERBUSH, PAUL, AND WILLIAMS, DAVID; *APPLICATIONS OF FUNCTIONAL ANALYSIS AND FUNCTION THEORETICAL METHODS IN ELEMENTARY PARTICLE PHYSICS* (P017582 001); 12 MONTHS \$16,000
 JONES, LAWRENCE W; *NUCLEON-NUCLEON TOTAL CROSS SECTIONS* (P028194 001); 12 MONTHS \$120,900
 HECHT, K T; *NUCLEAR STRUCTURE THEORY* (P025861); 24 MONTHS \$67,100
 JONES, LAWRENCE W, LONGO, MICHAEL J, AND OVERSETH, OLIVER E; *ELEMENTARY PARTICLE PHYSICS* (P027394 001); 12 MONTHS \$342,000
 WIEDENBECK, M L; *NUCLEAR SPECTROSCOPY* (P030034); 12 MONTHS \$74,400
 ZORN, JENS C; *TIME-OF-FLIGHT EXPERIMENTS WITH METASTABLE ATOMS AND MOLECULES* (P034631); 12 MONTHS \$44,200

WAYNE STATE UNIVERSITY

PICCIRELLI, R A; *MOLECULAR THEORY OF FLUIDS FOR RAPID VARIATION IN SPACE AND TIME AND FOR STRONG FORCES* (P016914 001); 12 MONTHS \$8,800

MINNESOTA

UNIVERSITY OF MINNESOTA

MOLDOVER, MICHAEL R; *CRITICAL POINT OF PHASE TRANSITIONS* (P014431 001); 10 MONTHS \$17,400

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

SCHMIDT, PAUL W; *SMALL ANGLE X-RAY SCATTERING* (P039528 X00); 12 MONTHS \$17,200

UNIVERSITY OF MISSOURI, ROLLA

PARK, JOHN T; *HEAVY ION ENERGY LOSS SPECTROMETRY* (P017443 009); 12 MONTHS \$25,900

UNIVERSITY OF MISSOURI, ST LOUIS

FOSTER, CHARLES; *ELASTIC SCATTERING OF COMPLEX NUCLEAR-ACCELERATED PARTICLES AT EXTREME BACK ANGLES* (P034784); 12 MONTHS \$14,100

WASHINGTON UNIVERSITY

FEENBERG, EUGENE, AND CLARK, JOHN W; *THE MICROSCOPIC THEORY OF QUANTUM FLUIDS AND EXTENDED NUCLEAR SYSTEMS* (P044594); 12 MONTHS \$20,050

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

RUDD, M EUGENE, JAECKS, DUANE H, BURNS, DONAL, AND MACEK, JOSEPH; *INELASTIC PROCESSES IN ATOMIC COLLISIONS* (P013184 001); 24 MONTHS \$170,000

NEW HAMPSHIRE

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

BALLING, L C; *RF SPECTROSCOPY OF ATOMS AND IONS* (P016814 001); 12 MONTHS \$20,900

NEW JERSEY

INSTITUTE FOR ADVANCED STUDY

DYSON, FREEMAN J, AND BAKCALL, JOHN N; *THEORETICAL PHYSICS* (P016147 001); 24 MONTHS \$240,000

PRINCETON UNIVERSITY

O'NEILL, GERARD K; *COLLIDING BEAMS* (P027874 001); \$14,000
 O'NEILL, GERARD K; *DISCRETE AND CONTINUUM EXCITED DATA STATES OF THE PROTON, TO MASSES UP TO 1 GEV* (P027974 009); 12 MONTHS \$190,500
 GOLDBERGER, M L; *THEORETICAL PHYSICS* (P030788 X00); 12 MONTHS \$80,000
 PEEBLES, P J E; *GRAVITATION, RELATIVITY AND COSMOLOGY* (P030789 X00); 12 MONTHS \$302,400
 GARVEY, GERALD T; *LOW ENERGY NUCLEAR PHYSICS* (P034884); 12 MONTHS \$599,600

RUTGERS UNIVERSITY

TEMMER, GEORGES M; *NUCLEAR STRUCTURE RESEARCH WITH A TANDEM ACCELERATOR* (P028311 001); 6 MONTHS \$228,900
 PLANO, RICHARD J, AND WATTS, TERENCE L; *ELEMENTARY PARTICLE PHYSICS RESEARCH USING BUBBLE CHAMBERS* (P029004 001); \$4,000
 MAGLICH, BOGDAN; *RESEARCH IN ELEMENTARY PARTICLE PHYSICS* (P028700 001); 12 MONTHS \$100,900
 DEVLIN, THOMAS J; *EXPERIMENTAL RESEARCH IN ELEMENTARY PARTICLE PHYSICS* (P034888); 12 MONTHS \$40,000

STEVENS INSTITUTE OF TECHNOLOGY

SEIDL, MILOS; *NONLINEAR BEAM PLASMA INTERACTION* (P024768 001); 12 MONTHS \$54,200
 SEIDL, MILOS; *NONLINEAR BEAM PLASMA INTERACTION* (P024768 002); \$17,900
 ANDERSON, JAMES L; *APPLICATION OF MOMENT METHODS TO PROBLEMS OF RELATIVISTIC TRANSPORT AND RADIATIVE TRANSFER* (P034881); 12 MONTHS \$10,500

NEW YORK

BROOKLYN COLLEGE

FRANCO, VICTOR; *THEORETICAL STUDIES IN MEDIUM AND HIGH-ENERGY NUCLEAR AND ATOMIC PHYSICS AND IN THE THREE-BODY PROBLEM* (P016913 001); 12 MONTHS \$10,000

CITY COLLEGE

RUBIN, KENNETH; *LOW ENERGY ELECTRON-ATOM ELASTIC AND INELASTIC TOTAL AND DIFFERENTIAL CROSS SECTION MEASUREMENTS* (P028994 001); 12 MONTHS \$28,100
 SAKITA, BUNJI; *PROBLEMS IN STRONG AND WEAK INTERACTIONS - DUAL THEORY AND INTERMEDIATE BOSONS* (P038332); 12 MONTHS \$50,000

COLUMBIA UNIVERSITY

NOVICK, ROBERT; *METASTABLE AUTOIONIZING ATOMIC STATES AND THE METASTABLE HELIUM ION* (P015478 001); \$25,000
 LEDERMAN, LEON M, SACHS, A M, RAINWATER, J, WU, C S, AND DEVONS, SAMUEL; *RESEARCH PROGRAM AND SYNCHROCYCLOTRON OPERATION* (P028788 009); 12 MONTHS \$1,800,000
 WU, C S; *LOW ENERGY NUCLEAR PHYSICS AND WEAK INTERACTIONS* (P031944); 12 MONTHS \$150,100
 RUDERMAN, M A, AND SPIEGEL, E A; *THEORETICAL ASTROPHYSICS* (P038336 X00); 12 MONTHS \$75,000
 LEDERMAN, LEON M, FRANZINI, P, LEE, W, BALTAY, C, AND STEINBERGER, J; *HIGH ENERGY PHYSICS* (P034455); 12 MONTHS \$1,260,000

CORNELL UNIVERSITY

MCDANIEL, B D; *OPERATIONAL SUPPORT OF THE 10 GEV ELECTRON SYNCHROTRON FACILITY* (C537000 018*); 12 MONTHS \$2,630,000
 MCDANIEL, B D; *OPERATIONAL SUPPORT OF THE 10 GEV ELECTRON SYNCHROTRON FACILITY* (C537000 013*); \$40,000
 FLEISCHMANN, H H; *CHARGE EXCHANGE AND STRIPPING IN HEAVY-ATOM COLLISIONS* (P008501 001); 12 MONTHS \$37,100
 OREAR, JAY, AND PEOPLES, JOHN; *HIGH ENERGY PARTICLE INTERACTIONS* (P015814 001); 12 MONTHS \$144,400
 BETHE, HANS A; *THEORETICAL NUCLEAR AND ELEMENTARY PARTICLE PHYSICS* (P020004 001); 12 MONTHS \$200,000
 HAND, LOUIS N; *SCALE INVARIANCE OF HIGH MOMENTUM TRANSFER MUON INELASTIC SCATTERING* (P028817 001); 12 MONTHS \$97,500

GITTELMAN, BERNARD, AND LOH, EUGENE C; *HIGH ENERGY PROTON-PROTON INTERACTIONS* (P028343 001); 12 MONTHS \$57,700
 MCDANIEL, B D; *1571 INTERNATIONAL SYMPOSIUM ON ELECTRON AND PHOTON INTERACTIONS AT HIGH ENERGIES* (P030226); 12 MONTHS \$3,000

FORDHAM UNIVERSITY

WEBER, ALFONS; *HIGH RESOLUTION RAMAN SPECTROSCOPY OF GASES* (P024840); 12 MONTHS \$21,800

NEW YORK UNIVERSITY

STROKE, H HENRY; *HIGH-RESOLUTION OPTICAL MEASUREMENTS, ATOMIC HYPERFINE STRUCTURE AND ISOTOPE SHIFT (P015858 001)*; 24 MONTHS \$100,200

STROKE, H HENRY; *HIGH-RESOLUTION OPTICAL MEASUREMENTS, ATOMIC HYPERFINE STRUCTURE AND ISOTOPE SHIFT (P015858 002)*; \$4,110

ROSENBERG, LEONARD; *MULTIPARTICLE SCATTERING PROBLEMS (P016417 001)*; 24 MONTHS \$12,100

ROSENBERG, LEONARD; *MULTIPARTICLE SCATTERING PROBLEMS (P016417 002)*; \$12,100

BROWN, HOWARD H. AND BEDERSON, BENJAMIN; *ATOM BEAM-PLASMA INTERACTION STUDIES AND PLASMAS IN THERMODYNAMIC EQUILIBRIUM (P017193 001)*; 12 MONTHS \$54,000

GLIMM, JAMES; *QUANTUM FIELD THEORY (P021005 001)*; 12 MONTHS \$23,400

CUMMINS, HERMAN Z. AND SWINNEY, HARRY L; *LIGHT SCATTERING STUDIES OF FLUIDS (P031483)*; 24 MONTHS \$76,100

BUDICK, BURTON; *SOFT X-RAYS FROM MUONIC, PIONIC AND KAONIC HYDROGEN ATOMS (P044527)*; 12 MONTHS \$44,800

STATE UNIVERSITY AT STONY BROOK

LEE, LINWOOD L JR; *OPERATION OF THE STONY BROOK NUCLEAR STRUCTURE LABORATORY (P028037 001)*; 9 MONTHS \$200,100

LEE-FRANZINI, JULIET; *DIFFRACTIVE STUDIES OF HADRONS AND DECAY OF THE K_S MESON (P038949)*; 12 MONTHS \$180,100

GOOD, MYRON L. AND KIRZ, JANOS; *EXPERIMENTAL HIGH ENERGY PHYSICS RESEARCH USING COUNTER TECHNIQUES (P032958)*; 12 MONTHS \$161,400

YANG, CHEN NING; *THEORETICAL PHYSICS (P032998 X00)*; 12 MONTHS \$177,100

SYRACUSE UNIVERSITY

ROHRLICH, FRITZ; *QUANTUM FIELD THEORY AND RELATED PROBLEMS (P012554 001)*; 24 MONTHS \$67,100

ROHRLICH, FRITZ; *QUANTUM FIELD THEORY AND RELATED PROBLEMS (P012554 002)*; \$6,600

GOLDBERG, MARVIN, HORWITZ, NAHMIN, XALOGEROPOULOS, TED E, AND MONETI, GIANCARLO; *EXPERIMENTAL ELEMENTARY PARTICLE PHYSICS (P031415)*; 12 MONTHS \$900,600

BERGMANN, PETER G. AND GOLDBERG, JOSHUA N; *GENERAL RELATIVITY (P031411 X00)*; 12 MONTHS \$49,600

UNIVERSITY OF ROCHESTER

THORNDIKE, EDWARD H. AND LOBKOWICZ, FREDERICK; *HIGH ENERGY PHOTOPRODUCTION STUDIES (P027304 001)*; 12 MONTHS \$180,600

ALFORD, W P; *OPERATION OF NUCLEAR STRUCTURE RESEARCH LABORATORY (P027470 001)*; 12 MONTHS \$775,000

STROUD, CARLOS; *NON-LINEAR AND PARAMETRIC RESPONSE OF ATOMS TO A RESONANT FIELD (P030573)*; 24 MONTHS \$19,000

DOUGLASS, DAVID H; *NATURE OF EXTRATERRESTRIAL SOURCES OF GRAVITATIONAL RADIATION (P031142)*; 12 MONTHS \$59,300

YESHIVA UNIVERSITY

CAMERON, A G W; *NUCLEOSYNTHESIS AND ASTROPHYSICS (P031447 X00)*; 12 MONTHS \$35,000

GENERAL ELECTRIC COMPANY-RESEARCH AND DEVELOPMENT CENTER

HART, EDWARD W; *TENTH ANNUAL EASTERN THEORETICAL PHYSICS CONFERENCE, OCTOBER 29-30, 1971 (P031090)*; 12 MONTHS \$3,100

NORTH CAROLINA

DUKE UNIVERSITY

BIEDENHARN, L C, CUSSON, R Y, AND HAN, M Y; *THEORETICAL PHYSICS (P014114 001)*; 24 MONTHS \$90,000

GORDY, WALTER; *DEVELOPMENT AND APPLICATION OF SUBMILLIMETER RADIO WAVES (P031590)*; 12 MONTHS \$60,000

OHIO

CASE WESTERN RESERVE UNIVERSITY

ROBINSON, D K; *PARTICLE INTERACTIONS IN THE DEUTERIUM BUBBLE CHAMBER (P031490)*; 12 MONTHS \$131,600

KOWALSKI, K L; *THEORETICAL STUDIES IN NUCLEAR STRUCTURE AND SCATTERING (P032338 X00)*; 12 MONTHS \$89,100

BROWN, ROBERT W; *THEORETICAL ELEMENTARY PARTICLE PHYSICS (P033119)*; 24 MONTHS \$14,000

OHIO STATE UNIVERSITY

KAUSMAN, H J, ARNS, R G, DONOGHUE, T R, AND BLATT, S LESLIE; *NUCLEAR PHYSICS RESEARCH WITH A 3.5 MEV VAN DE GRAAFF ACCELERATOR (P010763 001)*; 8 MONTHS \$100,000

UNIVERSITY OF CINCINNATI

RUSSELL, JAMES E; *CASCADE IN MESONIC ATOMS (P020889 001)*; 12 MONTHS \$8,000

NUSSBAUM, MIRKO M; *ELEMENTARY PARTICLE INTERACTIONS (P032850)*; 12 MONTHS \$48,700

OREGON

OREGON STATE UNIVERSITY

MADSEN, VICTOR A; *THEORETICAL LOW ENERGY NUCLEAR PHYSICS (P031553)*; 24 MONTHS \$24,600

UNIVERSITY OF OREGON - EUGENE

LEFEVRE, H W, MCDANIELS, D K, AND OVERLEY, J C; *NEUTRON PHYSICS AND ELECTROMAGNETIC TRANSITIONS IN NUCLEI (P031097)*; 12 MONTHS \$143,000

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

KISSLINGER, L S, AND SORENSEN, R A; *THEORETICAL NUCLEAR PHYSICS (P031484 X00)*; 12 MONTHS \$60,000

DREXEL UNIVERSITY

GELLER, KENNETH N; *REACTION STUDIES AT TANDEM BOMBARDING ENERGIES (P024680 001)*; 12 MONTHS \$20,000

LEHIGH UNIVERSITY

MCLENNAN, JAMES A; *NONEQUILIBRIUM STATISTICAL MECHANICS AND KINETIC THEORY (P013517 002)*; 12 MONTHS \$15,000

PENNSYLVANIA STATE UNIVERSITY

WIGGINS, T A, AND PLIVA, JOSEF; *PRECISION INFRARED SPECTROSCOPY AND LIGHT SCATTERING (P013054 002)*; 12 MONTHS \$10,000

TEMPLE UNIVERSITY

HAVAS, PETER; *RELATIVISTIC THEORY OF INTERACTING PARTICLES (P014123 001)*; 12 MONTHS \$25,000

GREEN, MELVILLE S; *STATISTICAL MECHANICS (P014336 001)*; 24 MONTHS \$91,000

UNIVERSITY OF PENNSYLVANIA

MIDDLETON, ROY, AND STEPHENS, WILLIAM; *NUCLEAR RESEARCH WITH TANDEM ACCELERATOR (P002821 001)*; 6 MONTHS \$293,200

AMADO, R D, AND PRIMAKOFF, HENRY; *THEORETICAL PHYSICS (P033959 X00)*; 12 MONTHS \$35,000

UNIVERSITY OF PITTSBURGH

FITE, WADE L; *ATOMIC HYDROGEN COLLISION STUDIES (P017437 001)*; 12 MONTHS \$86,500

JANIS, ALLEN I, AND NEWMAN, EZRA T; *RADIATION AND SINGULARITIES IN GRAVITATIONAL THEORY (P024788 001)*; 12 MONTHS \$30,000

COHEN, BERNARD L, DAHNICK, WILFRIED W, MCCRUER, JAMES N, SALADIN, JURO X, AND MAHER, JAMES V; *NUCLEAR STRUCTURE AND NUCLEAR REACTIONS (P028312 001)*; 6 MONTHS \$280,000

PRATT, R H; *THEORY OF QUANTUM ELECTRODYNAMIC PROCESSES IN THE FIELD OF AN ATOM (P031792)*; 12 MONTHS \$35,000

CLELAND, W E, AND ENGELS, E JR; *EXCITED STATES OF HYPERONS (P031453)*; 12 MONTHS \$100,300

FRANKLIN INSTITUTE-BARTOL RESEARCH FOUNDATION
METZGER, F R; *NUCLEAR STRUCTURE STUDIES USING PHOTONS (P022354)*; 12 MONTHS \$65,000

RHODE ISLAND

GORDON RESEARCH CONFERENCES

CRUICKSHANK, ALEXANDER M; *GORDON CONFERENCE ON PLASMA PHYSICS (P033188)*; 12 MONTHS \$2,400

TENNESSEE

OAK RIDGE NATIONAL LABORATORY

LIVINGSTON, ROBERT S; *INTERNATIONAL CONFERENCE ON MULTIPLY-CHARGED HEAVY ION SOURCES AND ACCELERATING SYSTEMS (A000283)*; 12 MONTHS \$4,600

VANDERBILT UNIVERSITY

PINKSTON, WILLIAM T; *NUCLEAR STRUCTURE ASPECTS OF DIRECT REACTIONS (P015071 001)*; 12 MONTHS \$12,400

PANVINI, R S, AND WEBSTER, M S; *BUBBLE CHAMBER STUDIES OF SELECTED HIGH-ENERGY HADRONIC COLLISIONS (P024451 001)*; 12 MONTHS \$176,700

HAMILTON, JOSEPH H, AND ALBRIDGE, ROYAL G; *EXPERIMENTAL NUCLEAR SPECTROSCOPY (P027517 001)*; 12 MONTHS \$65,800

KUMAR, KRISHNA; *QUASI-MICROSCOPIC THEORY OF NUCLEAR STRUCTURE (P031634)*; 12 MONTHS \$8,000

ATOMIC ENERGY COMMISSION-OAK RIDGE OPERATIONS OFFICE-AEC
MARTIN, JOHN A; *EVALUATION SERVICES (CA07300)*; 13 MONTHS \$1,500

TEXAS

BAYLOR UNIVERSITY

POWERS, DARDEN; *ENERGY LOSS OF ALPHA PARTICLES IN MATTER (P018722 001)*; 12 MONTHS \$20,700

TEXAS A & M UNIVERSITY

SUGIHARA, T T; *CYCLOTRON-BASED NUCLEAR PHYSICS (P032055)*; 12 MONTHS \$250,000

TEXAS TECH UNIVERSITY

QUADE, C RICHARD; INTERNAL ROTATION IN ASYMMETRIC-ASYMMETRIC MOLECULES (P04399 004); 18 MONTHS \$18,200

UNIV OF TEXAS AT AUSTIN

GENTLE, KENNETH W; EXPERIMENTAL STUDY OF STRONG PLASMA TURBULENCE (P013714 008); 24 MONTHS \$162,500

ARNETT, W DAVID, AND DAVIDS, CARY N; NUCLEAR ASTROPHYSICS-EXPERIMENTAL AND THEORETICAL (P033888 001); 12 MONTHS \$40,000

OAKES, MELVIN E; NON-LINEAR LOWER HYBRID WAVES (P083738 001); 12 MONTHS \$16,000

DRUMMOND, WILLIAM E; OBLIQUE COLLISIONLESS SHOCK WAVES IN PLASMA (P027178 001); 12 MONTHS \$110,000

DRUMMOND, WILLIAM E; OBLIQUE COLLISIONLESS SHOCK WAVES IN PLASMA (P027178 002); \$27,100

DEWITT, BRYCE S; THE ROLE OF GRAVITATION IN PHYSICS (P039039); 24 MONTHS \$63,300

SCHILD, ALFRED, SHEPLEY, LAWRENCE C, AND MATZNER, RICHARD A; RELATIVITY AND ORAVITATIONAL THEORIES (P031639 X00); 12 MONTHS \$46,000

UNIV OF TEXAS AT DALLAS

OZSVATH, ISTVAN, RINDLER, WOLFGANG, AND ROBINSON, IVOR; GENERAL RELATIVITY (P039881 001); 12 MONTHS \$27,500

UNIVERSITY OF HOUSTON

SHELDON, WILLIAM R; COSMIC RAY MUON INVESTIGATIONS (P030413); 18 MONTHS \$32,700

UTAH

UNIVERSITY OF UTAH

KEUFFEL, J W; COSMIC RAY MUONS AND NEUTRINOS (P024453 001); 24 MONTHS \$461,400

VIRGINIA

UNIVERSITY OF VIRGINIA

ZIOCK, KLAUS O H; FRACTIONALLY CHARGED PARTICLES (P013080); 18 MONTHS \$7,300

LOWRY, R A; DETERMINATION OF NEWTON'S GRAVITATIONAL CONSTANT, G, WITH IMPROVED PRECISION (P044300); 12 MONTHS \$29,000

VIRGINIA POLYTECHNIC INSTITUTE

COLLINS, GEORGE B; MULTIGAMMA EVENTS FROM MAGNETIC MONOPOLE PAIRS (P044529); 24 MONTHS \$50,000

JENKINS, DAVID; NUCLEAR AND PARTICLE EXPERIMENTS AT ARGONNE, BROOKHAVEN AND LAMPF (P034618); 12 MONTHS \$70,000

COLLEGE OF WILLIAM AND MARY-CHRISTOPHER NEWPORT COLLEGE

SIEGEL, ROBERT T; OPERATIONAL SUPPORT OF SYNCHROCYCLOTRON RESEARCH (P044901); 12 MONTHS \$67,300

WASHINGTON

UNIVERSITY OF WASHINGTON

DEHMELT, HANS U; ISOLATED ATOMIC PARTICLES FLOATING AT REST IN FREE SPACE (P011487 001); 12 MONTHS \$46,800

FORTSON, E NORVAL; SPIN ORIENTED STATES OF ATOMS AND IONS USING EXCHANGE COLLISION TECHNIQUES (P023387 001); 12 MONTHS \$30,000

WILLIAMS, ROBERT W, AND COOK, VICTOR; ELEMENTARY PARTICLE PHYSICS USING HIGH ENERGY ACCELERATORS (P024573 001); 12 MONTHS \$424,900

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

FITZSIMMONS, W A; ELECTRONS, IONS, EXCITED ATOMS, AND EXCITONS IN NOBLE GASES, LIQUIDS, AND SOLIDS (P011704 001); 24 MONTHS \$54,900

MCVOY, KIRK W; NUCLEAR THEORY (P013198 001); 24 MONTHS \$67,800

UNIVERSITY OF WISCONSIN, MILWAUKEE

PARKER, LEONARD; QUANTIZED FIELDS AND PARTICLE CREATION IN THE EARLY UNIVERSE (P019432); 12 MONTHS \$13,200

CHEMISTRY

ALABAMA

ALABAMA AGRICULTURAL AND MECHANICAL UNIVERSITY

EVANS, RICHARD A; COSIP D RESEARCH INITIATION - NOVEL REARRANGEMENT REACTIONS OF SOME MEDIUM RING COMPOUNDS (Y010460); 16 MONTHS \$17,600

UNIVERSITY OF ALABAMA, TUSCALOOSA

ATWOOD, JERRY L; ANIONIC ORGANOALUMINUM COMPLEXES (P024432); 24 MONTHS \$22,500

ABRAMOVITCH, R A; THE CHEMISTRY OF NITRENES AND RELATED INTERMEDIATES (P033861 X00); 12 MONTHS \$35,200

ARIZONA

ARIZONA STATE UNIVERSITY

MOELLER, THERALD; COMPLEXATION OF LANTHANIDE IONS IN NON-AQUEOUS MEDIA (P013841 001); 24 MONTHS \$43,300

JUVET, RICHARD S JR; INORGANIC AND PHOTOLYTIC DEGRADATION QLC. MEDICINAL INGREDIENTS IN CHINESE HERBS (P043553 001); 24 MONTHS \$74,000

UNIVERSITY OF ARIZONA

BURKE, MICHAEL F; THERMODYNAMIC STUDIES OF GAS-SOLID CHROMATOGRAPHY (P017338 001); 24 MONTHS \$28,200

BATES, ROBERT B; RESONANCE-STABILIZED ANIONS AND RADICALS (P041115 004); 12 MONTHS \$28,800

FERNANDO, QUINTUS; ORGANIC ANALYTICAL REAGENTS (P044809 001); \$5,000

STEELINK, CORNELIUS; FREE RADICAL INTERMEDIATES IN THE ENZYMIC OXIDATION OF LIGNIN PHENOLS (P032186 X00); 12 MONTHS \$32,400

ARKANSAS

UNIVERSITY OF ARKANSAS

FRY, ARTHUR, AND SIMS, LESLIE B; HEAVY ATOM ISOTOPE EFFECTS IN ORGANIC REACTIONS (P039428 X00); 12 MONTHS \$60,100

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

RICHARDS, JOHN H; CHEMISTRY OF METALLOCENES (P008998 X03); 6 MONTHS \$9,500

GODDARD, WILLIAM A III; THEORETICAL STUDY OF THE WAVEFUNCTIONS FOR REACTIONS OF MOLECULES (P013484 001); 24 MONTHS \$49,900

IRELAND, ROBERT E; THE TOTAL SYNTHESIS OF TRITERPENES (P030959 X00); 12 MONTHS \$51,600

BERGMAN, ROBERT G; SYNTHESIS AND MECHANISMS OF REACTION OF THREE-MEMBERED RING COMPOUNDS (P031581 X00); 12 MONTHS \$30,000

HAMMOND, GEORGE S; ORGANOMETALLIC COMPOUNDS IN PHOTOCHEMISTRY AND OXIDATION SYSTEMS (P041507); 24 MONTHS \$69,800

ROBINSON, G WILSE; VAPOR PHASE NUCLEATION (P039428 X00); 12 MONTHS \$34,300

ROBERTS, JOHN D; STRUCTURES AND REACTION MECHANISMS OF ORGANIC COMPOUNDS (P032818 X00); 12 MONTHS \$94,200

CALIFORNIA STATE UNIVERSITY, LONG BEACH

MARSI, KENNETH L; MECHANISMS OF REACTIONS OF PHOSPHORUS HETEROCYCLES (P025479 001); \$5,100

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

FRATIELLO, ANTHONY; AN NMR STUDY OF COMPLEXES OF BORANE AND BORON TRIHALIDES WITH ORGANIC BASES (P009517 002); 24 MONTHS \$37,000

CALIFORNIA STATE UNIVERSITY, SAN DIEGO

BENNETT, LARRY E; COORDINATED SULFUR AND POLYNUCLEAR COMPLEXES (P040612); 24 MONTHS \$23,600

RING, MOREY A; PYROLYSIS OF CATENATED NON-METALLIC HYDRIDES AND REVERSE CARBENE ANALOG INSERTION REACTIONS (P033430); 24 MONTHS \$34,300

CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO

WALKER, FRANCES ANN; REACTIONS OF COBALT(II) PORPHYRINS (P024485 X00); 12 MONTHS \$11,000

STANFORD UNIVERSITY

ANDERSEN, HANS C; STATISTICAL MECHANICS OF ATOMIC AND MOLECULAR FLUIDS (P020058 001); 24 MONTHS \$40,000

YAN TAMELEN, EUGENE E; BIOGENESIS AND BIOGENETICALLY-PATTERNED SYNTHESIS OF NATURAL PRODUCTS AND RELATED SUBSTANCES (P043019 X01); 12 MONTHS \$42,900

MCCONNELL, HARDEN, AND JARDETZKY, OLEG; HIGH FREQUENCY HIGH RESOLUTION NUCLEAR MAGNETIC RESONANCE FACILITY (P023653); 12 MONTHS \$260,000

TAUBE, HENRY; OXIDATION-REDUCTION MECHANISMS (P024786 X01); 12 MONTHS \$62,500

BRAUMAN, JOHN I; HYDROGEN TRANSFER REACTIONS (P027538 001); \$9,200

KUHLMANN, KARL F; APPLICATION OF MAGNETIC RESONANCE TECHNIQUES TO PROBLEMS IN STRUCTURAL CHEMISTRY (P039050 X00); 12 MONTHS \$62,400

JOHNSON, WILLIAM S; SYNTHETIC STUDIES RELATED TO NATURAL PRODUCTS (P033446 X00); 12 MONTHS \$61,400

UNIVERSITY OF CALIFORNIA, BERKELEY

HILDEBRAND, JOEL H; PROPERTIES AND SOLUBILITY RELATIONS OF NONELECTROLYTES (P008480 001); \$6,000

DAUBEN, WILLIAM C; STRUCTURAL STUDIES IN ALICYCLIC SYSTEMS (P008700 X01); 12 MONTHS \$40,000

HEARST, JOHN E; HYDRODYNAMIC PROPERTIES OF DILUTE POLYMER SOLUTIONS (P048816 X01); 12 MONTHS \$17,000
 STREITWIESER, ANDREW JR; AB INITIO QUANTUM ORGANIC CHEMISTRY (P049333 X01); 12 MONTHS \$34,300
 HEATHCOCK, CLAYTON H; STUDIES IN ORGANIC SYNTHESIS (P031321 X00); 12 MONTHS \$29,700
 STREITWIESER, ANDREW JR; RARE EARTH ORGANOMETALLIC CHEMISTRY (P031403 X00); 12 MONTHS \$48,400
 SCHAEFER, HENRY F III; ELECTRON CORRELATION IN MOLECULES (P031974); 24 MONTHS \$43,400
 MCCLAIN, WILLIAM M; TWO-PHOTON MOLECULAR SPECTROSCOPY (P032216 X00); 12 MONTHS \$48,000
 JENSEN, FREDERICK R; MECHANISMS OF ORGANIC REACTIONS (P032669 X00); 12 MONTHS \$50,000
 MOORE, C BRADLEY; SPECTROSCOPIC STUDIES OF ENERGY TRANSFER AND APPLICATIONS OF TUNABLE LASERS IN CHEMISTRY (P032894 X00); 12 MONTHS \$42,000
 HARRIS, CHARLES B; COHERENT MIGRATION OF TRIPLET EXCITONS IN MOLECULAR CRYSTALS (P033025 X00); 12 MONTHS \$42,900
 MILLER, WILLIAM H; THEORY OF LOW ENERGY ATOMIC AND MOLECULAR COLLISIONS (P034189 X00); 12 MONTHS \$24,500
 GWINN, WILLIAM D; SPECTROSCOPY AND MOLECULAR STRUCTURE (P034321 X00); 12 MONTHS \$45,900

UNIVERSITY OF CALIFORNIA, DAVIS

VOLMAN, DAVID; PHOTOLYSIS OF CHLOROPROPENES, AND REACTIONS OF HYDROXYL RADICALS (P012971 001); 9 MONTHS \$8,500
 ROCK, PETER A; THERMODYNAMICS OF HYDROGEN, LITHIUM, AND CALCIUM ISOTOPE-EXCHANGE REACTIONS (P033164); 24 MONTHS \$27,100

UNIVERSITY OF CALIFORNIA, IRVINE

MOORE, HAROLD W; CHEMISTRY OF AZIDOQUINONES AND RELATED COMPOUNDS (P012958 001); 24 MONTHS \$38,900
 DOEDENS, ROBERT J; STRUCTURAL STUDIES OF TRANSITION METAL COMPLEXES (P020403 001); 24 MONTHS \$35,000
 LEE, E K C; TRACER AND LUMINESCENCE STUDIES OF PHOTOCHEMICALLY GENERATED EXCITED MOLECULES (P043010 X01); 12 MONTHS \$26,500
 FLEISCHER, EVERLY B; NEW DIRECTIONS IN COORDINATION CHEMISTRY (P030880 X00); 12 MONTHS \$32,500

UNIVERSITY OF CALIFORNIA, LOS ANGELES

LIGHTNER, DAVID A; OPTICAL ACTIVITY. DISSYMMETRIC CHROMOPHORES, FRONT OCTANT AND ANTI-OCTANT PERTURBERS (P029533 001); 12 MONTHS \$13,700
 REISS, HOWARD; FURTHER RIGOROUS DEVELOPMENT OF SCALED PARTICLE THEORY (P012408 001); 24 MONTHS \$35,300
 HAWTHORNE, M FREDERICK; MECHANISM STUDIES RELATED TO THE CHEMISTRY OF POLYHEDRAL BORANES (P014372 X01); 12 MONTHS \$38,000
 JACOBS, THOMAS L; REACTIONS OF ALLENES (P032907 001); 12 MONTHS \$10,500
 KAESZ, HERBERT D; TRANSITION METAL CARBONYL HYDRIDES (P032667 X00); 12 MONTHS \$37,800
 FOOTE, CHRISTOPHER S; CHEMISTRY OF SINGLET OXYGEN AND RELATED TOPICS (P032790 001); \$27,200
 ANET, FRANK A L; NUCLEAR MAGNETIC RESONANCE IN ORGANIC CHEMISTRY (P042794 001); \$6,000
 REISS, HOWARD; SUBMICROANALYTICAL CHEMISTRY (P028722 X01); 12 MONTHS \$42,000
 SCOTT, ROBERT L; LIQUIDS AND SOLUTIONS (P030283 X00); 12 MONTHS \$29,100

KIVELSON, DANIEL; LIGHT SCATTERING FROM LIQUIDS (P030753 X00); 12 MONTHS \$41,600
 MCTAGUE, JOHN P; LIGHT SCATTERING AND INTERMOLECULAR INTERACTIONS (P030610); 24 MONTHS \$40,000
 KIVELSON, DANIEL; ELECTRONIC PARAMAGNETIC RESONANCE STUDIES OF FREE RADICALS (P028072 X00); 12 MONTHS \$35,500
 TRUEBLOOD, KENNETH N; DIFFRACTION STUDIES OF ORGANIC CRYSTALS (P032221 X00); 12 MONTHS \$30,800
 LIGHTNER, DAVID A; PYRROLE PHOTOOXIDATION IN BILIRUBIN AND PORPHYRIN PHOTOCHEMISTRY (P032482 X00); 12 MONTHS \$25,000
 CRAM, DONALD J; HETEROCROWN AND CARBANION CHEMISTRY (P032559 X00); 12 MONTHS \$54,800

UNIVERSITY OF CALIFORNIA, RIVERSIDE

SAWYER, DONALD T; NONAQUEOUS ELECTROCHEMISTRY OF METALLOFLAVIN MODEL COMPOUNDS (P016111 001); 24 MONTHS \$58,300
 OKAMURA, WILLIAM H; SYNTHESIS, STRUCTURE, AND PROPERTIES OF UNSATURATED NITROGEN HETEROCYCLES (P017576 001); 24 MONTHS \$39,700
 WING, RICHARD M; INORGANIC STRUCTURAL CHEMISTRY (P019251 001); 12 MONTHS \$22,500
 SCHMIDT, HARTLAND H; CRITICAL PHENOMENA IN LIQUID-LIQUID AND LIQUID-VAPOR SYSTEMS (P028919 X01); 12 MONTHS \$25,000
 GIBIAN, MORTON J; FLAVIN REDOX CHEMISTRY AND FLAVOENZYM E MECHANISMS (P034388); 24 MONTHS \$39,900

DARLEY, ELLIS F; CHARACTERIZATION AND MODIFICATION OF SMOKE PRODUCTION IN THE COMBUSTION OF CELLULOSIC FUELS (P031424); 12 MONTHS \$34,400
 PITTS, JAMES N JR; CHEMISTRY OF OZONE AND SINGLET OXYGEN (P034394); 12 MONTHS \$60,200

UNIVERSITY OF CALIFORNIA, SAN DIEGO

MAYER, JOSEPH E; INTERACTING ATOMS (P030218 X00); 12 MONTHS \$35,600
 SHULER, KURT E, MAYER, JOSEPH E, WEARE, JOHN H, AND WHEELER, JOHN C; THEORETICAL CHEMISTRY (P0328051 X00); 12 MONTHS \$77,800
 BOND, F THOMAS; SYNTHESIS OF HIGHLY STRAINED COMPOUNDS (P032278); 24 MONTHS \$40,000
 WILSON, KENT R; PHOTOFRACTION SPECTROSCOPY. INVESTIGATION OF DISSOCIATIVE MOLECULAR PROCESSES (P032885-X00); 12 MONTHS \$184,000

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

KUNTZ, IRWIN D; NMR SOLVENT EFFECTS AND INTERMOLECULAR INTERACTIONS (P031564); 24 MONTHS \$30,400

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

BOWERS, MICHAEL T; ION CYCLOTRON RESONANCE (P015688 001); 4 MONTHS \$4,700

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

BERNASCONI, CLAUDE F; TEMPERATURE-JUMP STUDIES OF MEISENHEIMER COMPLEXES AND RELATED INTERMEDIATES (P043501 X01); 12 MONTHS \$20,000
 BUNNETT, JOSEPH F; THE CHEMISTRY OF AROMATIC COMPOUNDS (P033224 X00); 12 MONTHS \$22,200

UNIVERSITY OF SOUTHERN CALIFORNIA

WILMARTH, WAYNE K; SUBSTITUTION REACTIONS OF OCTAHEDRAL COMPLEX IONS (P007714 X01); 12 MONTHS \$40,600
 BURG, ANTON B; FLUOROCARBON-PHOSPHINE DERIVATIVES (P017179 001); 24 MONTHS \$48,000
 ADAMSON, ARTHUR W; PHOTOCHEMISTRY OF COORDINATION COMPOUNDS (P047144 X01); 12 MONTHS \$20,000
 STEPHENS, PHILIP J; MAGNETIC CIRCULAR DICHROISM (P030703); 24 MONTHS \$73,600
 TAYLOR, HOWARD S; CALCULATION OF BOUND STATE PROPERTIES AND SCATTERING CROSS SECTIONS (P030710 X00); 12 MONTHS \$40,300

UNIVERSITY OF CALIFORNIA, SAN DIEGO-REVELLE COLLEGE

SCHRAUZER, GERHARD N; STUDIES IN INORGANIC, ORGANIC AND BIOINORGANIC CHEMISTRY (P042423 X01); 12 MONTHS \$104,700

COLORADO

COLORADO STATE UNIVERSITY

SKOGERBOE, RODNEY K; SPECTROCHEMICAL APPLICATIONS OF LOW POWER MICROWAVE EXCITATION (P041304 001); 6 MONTHS \$5,000
 OSTERYOUNG, R A, AND OSTERYOUNG, J; ANALYTICAL PULSE POLAROGRAPHY (P031491 X00); 12 MONTHS \$42,700
 MACIEL, GARY E; SOLVENT EFFECTS ON 13C CHEMICAL SHIFTS (P034489); 24 MONTHS \$60,100

UNIVERSITY OF COLORADO

KING, EDWARD L; COMPLEX IONS IN SOLUTION (P007183 X04); 12 MONTHS \$38,800
 CRISTOL, STANLEY J; MECHANISMS OF CERTAIN ORGANIC REACTIONS (P003813 X04); 12 MONTHS \$44,000
 WILLIAMS, DENIS R; SYNTHETIC, PHYSICAL AND THEORETICAL CHEMISTRY OF ORGANOSULFUR COMPOUNDS (P010950 001); 24 MONTHS \$22,900
 DEPUY, CHARLES H; CYCLOPROPANE AND ORGANOMETALLIC CHEMISTRY (P013783 X04); 12 MONTHS \$41,700
 STRICKLER, STEWART J, AND LINEBERGER, W CARL; CONFERENCE ON RADIATIONLESS PROCESSES IN GAS-PHASE MOLECULES (P03189714); 12 MONTHS \$9,600
 LINEBERGER, WILLIAM C; LASER STUDIES OF MOLECULAR ENERGY TRANSFER PROCESSES (P033666); 24 MONTHS \$37,000
 SHAPIRO, ROBERT H, AND DEPUY, CHARLES H; GAS PHASE ORGANIC CHEMISTRY IN A FLOWING AFTERGLOW SYSTEM (P033877); 12 MONTHS \$25,600

UNIVERSITY OF DENVER

MAGEE, CHARLES B; TERNARY HYDRIDE SYSTEMS (P028600 X01); 12 MONTHS \$28,500

CONNECTICUT

UNIVERSITY OF CONNECTICUT

STOCK, JOHN T, AND BOBBITT, JAMES M; ELECTROLYTIC OXIDATION OF NATURALLY OCCURRING HETEROCYCLIC PHENOLS (P030574 X00); 12 MONTHS \$18,200

YALE UNIVERSITY

BERSON, JEROME A; THERMAL REACTIONS (P011017 X01); 12 MONTHS \$30,000

- CROSS, R JAMES JR; MOLECULAR SCATTERING (P011499 001); 24 MONTHS \$60,000
- SMITH, ALLAN L; MOLECULAR IONIZATION (P011410 001); 24 MONTHS \$60,000
- SMITH, ALLAN L; MOLECULAR IONIZATION (P011410 001); \$6,000
- SUPLINSKAS, RAYMOND J; EXTENSIONS OF THE KINEMATIC MODEL FOR CHEMICAL REACTION (P022173 001); 1 MONTHS \$2,800
- SAUNDERS, MARTIN; RAPID REARRANGEMENT PROCESSES IN CARBONIUM IONS (P021419 001); \$15,500
- ZIEGLER, FREDERICK E; SYNTHESIS OF INDOLE ALKALOIDS OF BIOGENETIC AND CHEMOTHERAPEUTIC INTEREST (P020990 X00); 12 MONTHS \$29,900
- WIBEKG, KENNETH B; MECHANISMS OF OXIDATIVE PROCESSES (P021244 X00); 12 MONTHS \$26,900
- WIBERG, KENNETH B; SYNTHESIS AND PROPERTIES OF BICYCLIC AND TRICYCLIC SMALL RING COMPOUNDS (P022178 X00); 12 MONTHS \$17,700
- SCOTT, A I; BIOGENETIC TYPE SYNTHESIS OF NATURAL PRODUCTS AND THEIR PROGENITORS (P021306 X00); 12 MONTHS \$45,700
- BERSON, JEROME A; THERMAL REACTIONS (P021809 X00); 12 MONTHS \$26,000

DELAWARE

UNIVERSITY OF DELAWARE

- MOORE, JAMES; SYNTHESIS AND REACTIONS OF NITROGEN-CONTAINING BICYCLIC AND SEVEN-MEMBERED RING COMPOUNDS (P022222 001); 12 MONTHS \$4,800
- WOOD, ROBERT H; THERMODYNAMICS OF SOLVENTS WITH HIGH DIELECTRIC CONSTANTS (P011533 001); 24 MONTHS \$4,900
- VENANZI, LUIGI M; SQUARE PLANAR TRANSITION METAL COMPLEXES (P020642 X00); 12 MONTHS \$31,700
- NOGGLE, JOSEPH H; AN EXPERIMENTAL STUDY OF NUCLEAR MAGNETIC RELAXATION (P021360); 24 MONTHS \$29,000
- HECK, RICHARD F; SUBSTITUTION REACTIONS BY ORGANOTRANSITION METAL COMPOUNDS (P021412 X00); 12 MONTHS \$45,000

DISTRICT OF COLUMBIA

CATHOLIC UNIVERSITY OF AMERICA

- CHIU, YING-NAN; ELECTRON SPIN-DEPENDENT RADIATION AND SPIN INTERACTION IN MOLECULES AND CRYSTALS (P011212 001); 24 MONTHS \$22,900
- EISCH, JOHN J; ATTACK AT UNSATURATED CARBON BY ORGANOMETALLIC ELECTROPHILES AND PHOTO-EXCITED REAGENTS (P022209 X01); 5 MONTHS \$19,800

GEORGETOWN UNIVERSITY

- POPE, MICHAEL THOR; ELECTRONIC STRUCTURES OF HETEROPOLYANIONS (P010532 001); 24 MONTHS \$25,500
- HORAK, VACLAV; STRUCTURE AND REACTIVITY OF SULFUR HETEROAROMATICS (P011219 001); 7 MONTHS \$17,700
- DELEVIE, ROBERT; MEMBRANE ELECTRODE KINETICS (P021722 001); \$11,000
- EARLEY, JOSEPH E; UNUSUAL REDOX REACTIONS OF OXYIONS (P022125); 24 MONTHS \$27,400

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

- PAUL, MARTIN A; TASK ORDER FOR A STUDY OF A NATIONAL LABORATORY FOR THEORETICAL CHEMISTRY (C210221*); 12 MONTHS \$25,000
- PAUL, MARTIN A; CONFERENCE ON COMPUTATIONAL NEEDS AND RESOURCES IN CRYSTALLOGRAPHY (C210223); 12 MONTHS \$4,000

FLORIDA

FLORIDA STATE UNIVERSITY

- HERZ, WERNER; STUDIES IN TERPENE CHEMISTRY (P011522 002); 24 MONTHS \$25,500
- QUAGLIANO, JAMES V; COORDINATION COMPOUNDS CONTAINING POSITIVELY CHARGED LIGANDS (P021710 001); 12 MONTHS \$19,200
- LEFFLER, JOHN E; THIRD CONFERENCE ON STRUCTURE-ENERGY RELATIONSHIPS (P011649); 12 MONTHS \$5,000
- DOUGHERTY, RALPH C; NEGATIVE CHEMICAL IONIZATION MASS SPECTROMETRY (P021413); 24 MONTHS \$29,000

UNIVERSITY OF FLORIDA

- VALA, MARTIN; SPECTROSCOPY OF CARBONYL COMPOUNDS (P012740 001); 24 MONTHS \$25,000
- BATES, ROGER G; SALT AND SOLVENT EFFECTS ON ANALYTICAL PROCESSES (P011529 001); 24 MONTHS \$26,200
- LOWDIN, PER-OLOF, AND OHRN, YNGVE; QUANTUM CHEMISTRY OF ATOMS AND MOLECULES (P011646 001); 24 MONTHS \$26,100
- DEYRUP, JAMES A; EFFECTS OF UNSHARED ELECTRONS ON ADJACENT REACTING GROUPS (P011742 001); 24 MONTHS \$25,100
- PERSON, WILLIS B; INFRARED INTENSITY STUDIES (P011218 001); 12 MONTHS \$22,700
- DOLBIER, WILLIAM R JR; SIMULTANEITY OF CYCLOADDITIONS AND THERMAL REORGANIZATIONS (P020222 002); 24 MONTHS \$22,100

- JONES, WILLIAM M; CARBOCYCLIC AROMATIC CARBENES AND CARBENE-CARBENE REARRANGEMENTS (P022221 X01); 12 MONTHS \$20,000
- MUSCHLITZ, E E JR; REACTIONS OF METASTABLE ATOMS AND MOLECULES (P020994 X00); 12 MONTHS \$28,200

UNIVERSITY OF MIAMI

- CRISS, CECIL M; THERMODYNAMIC PROPERTIES OF NONAQUEOUS SOLUTIONS OF ELECTROLYTES (P011537 002); 24 MONTHS \$41,900

UNIVERSITY OF SOUTH FLORIDA

- STEVENS, BRIAN; KINETIC STUDIES OF PHOTOPEROXIDATION IN SOLUTION (P022221 X01); \$11,500
- STEVENS, BRIAN; KINETIC STUDIES OF PHOTOPEROXIDATION IN SOLUTION (P022221 X02); 12 MONTHS \$23,900
- BRAMAN, ROBERT S; SAMPLE-DETECTOR INTERFACING BY MEMBRANES (P021244); 24 MONTHS \$21,400

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL EXPERIMENT STATION

- URONE, PAUL; REACTIONS AND REACTION PRODUCTS OF SULFUR DIOXIDE IN AIR (P021235); 12 MONTHS \$22,800

GEORGIA

ALBANY STATE COLLEGE

- PATTERSON, RUDY V; COSIP D RESEARCH INITIATION - THE CATALYTIC EFFECT OF TETRAALKYLAMMONIUM IONS ON THE ELECTRON TRANSFER BETWEEN POTASSIUM OCTAYOANOTUNGSTATE (IV) AND POTASSIUM HEXACYANOFERRATE (III) (Y010171); 12 MONTHS \$24,400
- STEELE, JACK; COSIP-D RESEARCH INITIATION - METAL-ENZYME COMPLEXES (Y010172); 12 MONTHS \$24,300
- MCCRARY, THOMAS J; UNDERGRADUATE RESEARCH PARTICIPATION (Y010173); 12 MONTHS \$24,900

EMORY UNIVERSITY

- MENGER, F M; (1) COMPUTER IDENTIFICATION OF PATHOGENIC BACTERIA (2) THE CHEMICAL DYNAMICS OF ORGANIC REACTIONS IN GELS (3) BILE SALTS AND THEIR COMPLEXES (P011215 001); 24 MONTHS \$29,000

- DEMING, STANLEY N; AUTOMATED DEVELOPMENT OF ANALYTICAL CHEMICAL METHODS USING OPTIMIZATION TECHNIQUES (ADAM-O) (P021211); 24 MONTHS \$23,000

GEORGIA INSTITUTE OF TECHNOLOGY

- LIOTTA, CHARLES L; MECHANISM OF TRANSMISSION OF NON-CONJUGATIVE SUBSTITUENT EFFECTS (P011437 001); 24 MONTHS \$25,000
- FELTON, RONALD H; THE ELECTRONIC STRUCTURE OF METALLOPORPHYRIN IONS (P017041 001); 24 MONTHS \$43,000
- ASHBY, E C; ORGANOMETALLIC COMPOUNDS. MECHANISMS AND STEREOCHEMISTRY OF REACTION (P021350 X00); 12 MONTHS \$21,800
- GROVENSTEIN, ERLING JR; CHEMISTRY OF CARBANIONS (P022222 X00); 12 MONTHS \$28,000
- FINK, RICHARD W; SEMICONDUCTOR ELECTRON AND X-RAY DETECTOR SYSTEM FOR FLUORESCENCE AND AUGER INVESTIGATIONS (P022222); 24 MONTHS \$25,000

MOREHOUSE COLLEGE

- MCBAY, HENRY C; BLACK COLLEGES (FOUR-YEAR) (Y010142); 30 MONTHS \$74,300

MORRIS BROWN COLLEGE

- ANDERSON, GLORIA L; 19F CHEMICAL SHIFTS AND INFRARED C-F STRETCHING FREQUENCIES FOR BRIDGEHEAD FLUORIDES (P021150); 24 MONTHS \$26,500

UNIVERSITY OF GEORGIA

- ALLINGER, NORMAN L; CONFORMATIONAL TRANSMISSION (P011542 001); 24 MONTHS \$44,200
- HILL, RICHARD K; STEREOCHEMISTRY OF THERMAL REORGANIZATION REACTIONS (P022222 X01); 12 MONTHS \$21,400
- GARST, JOHN F; MECHANISMS AND REACTIVITY IN ELECTRON TRANSFER AND RELATED REACTIONS (P022222 X01); 12 MONTHS \$22,000
- KING, R BRUCE; TRANSITION METAL ORGANOMETALLIC CHEMISTRY (P021217 X00); 12 MONTHS \$23,500
- KING, R BRUCE; TRANSITION METAL ORGANOMETALLIC CHEMISTRY (P021217 X01); \$20,000
- HERCULES, DAVID M; ANALYTICAL APPLICATIONS OF ELECTRON SPECTROSCOPY (P021224 X00); 12 MONTHS \$47,100
- STORY, PAUL R; MECHANISMS OF OZONOLYSIS (P021414 X00); 12 MONTHS \$31,700
- SMITH, DARWIN W; DENSITY MATRIX APPROACH TO ATOMIC STRUCTURE (P021417 X00); 12 MONTHS \$24,000

HAWAII

UNIVERSITY OF HAWAII

- ANDERMANN, GEORGE; DEVELOPMENT OF X-RAY SPECTROSCOPIC METHODS (P020522 001); 12 MONTHS \$16,000
- HUBBARD, A T; STRUCTURE AND INFLUENCE OF THE DOUBLE LAYER AT SOLID ELECTRODES (P011747 001); 24 MONTHS \$22,000

ANDERMANN, GEORGE; *INFRARED OPTICAL PROPERTIES OF CRYSTALS* (P03314), 24 MONTHS \$35,000

IDAHO

UNIVERSITY OF IDAHO

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 NELSON, ROBERT F; *PREMEDITATED ELECTROSYNTHESIS* (P031199); 12 MONTHS \$14,800

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 WILLIAMSON, KENNETH L; CONFORMATIONAL ANALYSIS BY NMR (P030449); 12 MONTHS \$11,100
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 DEWALD, ROBERT R; RATES OF ELECTRON-REDUCTION REACTIONS IN LIQUID AMMONIA (P030009 001); 24 MONTHS \$48,800
- UNIVERSITY OF MASSACHUSETTS, AMHERST**
 ROWELL, ROBERT L; COLLOID AND MOLECULAR LIGHT SCATTERING (P011110 001); 24 MONTHS \$42,700
 CADE, PAUL E; THEORETICAL STUDIES ON THE COMPTON PROFILE SCATTERING FACTORS AND MOMENTUM-SPACE QUANTUM CHEMISTRY (P011606 001); 24 MONTHS \$31,800
 CHIEN, JAMES C W; AUTOXIDATION OF POLYMERS. MEASUREMENTS OF INDIVIDUAL RATE CONSTANTS (P021633 X00); 12 MONTHS \$18,500
 UDEN, PETER C; PREPARATION AND ANALYTICAL APPLICATION OF VOLATILE METAL COMPLEXES (P031749); 24 MONTHS \$30,500
- WORCESTER POLYTECHNIC INSTITUTE**
 BUSHWELLER, C HACKETT; MULTIHETEROATOMIC MEDIUM RINGS AND THE VARIOUS ROLES OF THE LONE PAIR (P018187 001); 8 MONTHS \$4,000

MICHIGAN

- MICHIGAN STATE UNIVERSITY**
 HART, HAROLD; CHEMISTRY OF SOME HIGHLY SUBSTITUTED COMPOUNDS (P008749 X04); 12 MONTHS \$57,900
 HORNE, FREDERICK H; NONISOTHERMAL TRANSPORT IN MULTICOMPONENT SYSTEMS (P011180 009); 24 MONTHS \$49,000
 BRUBAKER, CARL H JR; ORGANOMETALLIC COMPOUNDS OF TRANSITION ELEMENTS (P017424 X02); 12 MONTHS \$32,400
 CROUCH, STANLEY R; FAST KINETIC STUDIES OF ANALYTICAL SYSTEMS (P018113 001); 24 MONTHS \$50,000
 WAGNER, PETER J; STRUCTURE-REACTIVITY RELATIONSHIPS IN KETONE PHOTOCHEMISTRY (P013380 001); 12 MONTHS \$31,000
 SCHWENDEMAN, RICHARD H; MOLECULAR STRUCTURE AND ROTATIONAL RELAXATION BY MICROWAVE SPECTROSCOPY (P020883 001); 4 MONTHS \$10,200
 POPOV, ALEXANDER I; THIRD INTERNATIONAL CONFERENCE ON NONAQUEOUS SOLVENTS (P031112); 12 MONTHS \$4,000
 LEROL, GEORGE E; SPECTROSCOPIC STUDIES OF SMALL MOLECULES (P033658 X00); 12 MONTHS \$78,000
 ROGERS, MAX T; ESR STUDIES OF CHEMICAL BONDING IN TRANSITION METAL COMPLEXES (P033648); 24 MONTHS \$39,500
 MORTLAND, M M, AND PINNAVAIA, THOMAS J; CHEMISORBED SPECIES ON TRANSITION METAL ION EXCHANGE FORMS OF CLAY MINERALS (P033478); 24 MONTHS \$30,000
 LEROL, GEORGE E; CONFERENCE ON FUTURE TRENDS IN VIBRATIONAL SPECTROSCOPY (P033048); 6 MONTHS \$5,000
 RATHKE, MICHAEL WILLIAM; BORON-STABILIZED CARBANIONS (P033484); 24 MONTHS \$27,200
- UNIVERSITY OF MICHIGAN**
 ELVING, PHILIP J; POLAROGRAPHIC BEHAVIOR OF ORGANIC COMPOUNDS (P010414 001); 24 MONTHS \$52,100
 OVERBERGER, CHARLES G; CYCLIC AZO COMPOUNDS - SYNTHESIS, STEREOCHEMISTRY, AND DECOMPOSITION STUDIES OF NOVEL RING SYSTEMS (P012525 001); 12 MONTHS \$17,800
 DUNN, THOMAS M; ELECTRONIC SPECTRA OF INORGANIC COMPOUNDS (P016028 001); 6 MONTHS \$16,900
 ASHE, ARTHUR J III; SYNTHESIS OF THE BORABENOZENE ANION AND OTHER HETEROCYCLIC SYSTEMS (P030328 X00); 12 MONTHS \$15,800
 BARTELL, LAWRENCE S; ELECTRON DIFFRACTION STUDY OF MOLECULAR STRUCTURE AND BONDING (P032486 X00); 12 MONTHS \$53,800
 BRINTZINGER, HANS H; HYDRIDE AND NITROGEN COMPLEXES OF GROUP IV-VI TRANSITION METALS (P033130 X00); 12 MONTHS \$54,100
 WESTRUM, EDGAR F JR; INORGANIC CHEMICAL THERMODYNAMICS (P033141 X00); 12 MONTHS \$37,500
 OYENBERGER, CHARLES G; SYNTHESIS AND PROPERTIES OF ASYMMETRIC POLYMERS (P033533 X00); 12 MONTHS \$29,700
 STILES, MARTIN; CYCLOADDITION AND CYCLOREVERSION REACTIONS OF ENOLATES (P031443 X00); 12 MONTHS \$25,000
- WAYNE STATE UNIVERSITY**
 RABAN, MORTON; TORSIONAL STEREOISOMERISM IN SULFENAMIDES (P017098 001); 24 MONTHS \$39,300
 OLIVER, JOHN P; REACTIVITY AND BOND CHARACTER OF ORGANOMETALLIC COMPOUNDS (P018199 001); 12 MONTHS \$18,100

JOHNSON, CARL R; SYNTHETIC, MECHANISTIC, AND STEREOCHEMICAL ASPECTS OF SULFONIMIDOYL COMPOUNDS (P019923 009); 24 MONTHS \$68,800

MINNESOTA

UNIVERSITY OF MINNESOTA

PARRHAM, WILLIAM E; CHEMICAL BEHAVIOR OF STRAINED AROMATIC SYSTEMS IN THE 'META'-CYCLOPHANE SERIES (P011918 001); 12 MONTHS \$31,900

BRITTON, DOYLE; STRUCTURAL STUDIES OF INTERMOLECULAR INTERACTIONS (P016470 001); 24 MONTHS \$68,900

CRAWFORD, BRYCE L JR; ATR STUDIES OF STRUCTURAL PARAMETERS IN CONDENSED PHASES (P030719 X00); 12 MONTHS \$38,000

KREBYOV, MAURICE M; SOLVENT AND STRUCTURE IN PROTON TRANSFER TO CARBON AND HYDROGEN (P031360 X00); 12 MONTHS \$26,000

DAVIS, HOWARD TED; NON-EQUILIBRIUM PROCESSES IN FLUIDS (P032767 X00); 12 MONTHS \$27,600

BARNETT, RONALD E; DIFFUSION-LIMITED RATE-DETERMINING STEPS IN CARBONYL AND ACYL GROUP REACTIONS (P034193); 24 MONTHS \$34,000

MOSSOTTI, VICTOR G; THE INFORMATION STRUCTURE OF ANALYTICAL FLAMES (P034583 X00); 12 MONTHS \$40,000

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI

KLINGEN, THEODORE J; THE LIQUID CRYSTAL NATURE OF SOME ORGANO-CARBORANES AND NITROGEN-BORANES (P030388); 24 MONTHS \$22,800

PANETTA, CHARLES A; APPLICATIONS OF NEIGHBORING GROUP REACTIONS TO PEPTIDE CHEMISTRY (P033589); 24 MONTHS \$36,900

UNIVERSITY OF SOUTHERN MISSISSIPPI

KRUBSACK, ARNOLD J; OXIDATIONS BY THIONYL CHLORIDE (P031761 X00); 12 MONTHS \$17,000

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

OLAUGHLIN, JEROME W; SYNERGIC EXTRACTION AND GAS CHROMATOGRAPHY OF VOLATILE METAL CHELATES (P033894); 24 MONTHS \$29,000

UNIVERSITY OF MISSOURI, ST LOUIS

MURRAY, ROBERT W; THE MECHANISM OF OZONOLYSIS (P029978 X01); 12 MONTHS \$62,800

WASHINGTON UNIVERSITY

YARIS, ROBERT; USE OF TIME-DEPENDENT METHODS IN ATOMIC AND MOLECULAR QUANTUM MECHANICS (P009519 001); 24 MONTHS \$36,100

WAHL, ARTHUR C; OXIDATION-REDUCTION REACTIONS (P028880 X01); 12 MONTHS \$50,700

MONTANA

MONTANA STATE UNIVERSITY

ANACKER, EDWARD W; INFLUENCE OF SURFACTANT STRUCTURE ON MICELLIZATION (P019756 001); 12 MONTHS \$13,500

CAUGHLAN, CHARLES N; STRUCTURES OF ORGANOPHOSPHORUS COMPOUNDS (P033538 X00); 12 MONTHS \$29,900

UNIVERSITY OF MONTANA

SHAFIZADEH, FRED; PYROLYTIC REACTIONS OF CELLULOSIC MATERIALS (P015536 001); 6 MONTHS \$11,000

NEW HAMPSHIRE

DARTMOUTH COLLEGE

GRIFFLE, GORDON W; NITROGEN INVERSION AND OTHER PHENOMENA IN AZABICYCLOALKANES (P015974 001); 12 MONTHS \$14,000

SPENCER, THOMAS A; AMINE CATALYSIS VIA IMINIUM ION FORMATION (P034490 X00); 12 MONTHS \$29,300

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

UEBEL, J JOHN; A STUDY OF THE S_N2 REACTION (P008701 001); 12 MONTHS \$11,900

NEW JERSEY

NEWARK COLLEGE OF ENGINEERING

SUCHOW, LAWRENCE; COMPLEX RARE EARTH OXIDES, CHALCOGENIDES, AND Pnictides (P011587 001); 12 MONTHS \$14,500

PRINCETON UNIVERSITY

SOOS, ZOLTAN G; MAGNETIC AND ELECTRIC PROPERTIES OF PI-MOLECULAR CRYSTALS (P009544 001); 24 MONTHS \$31,000

SPIRO, T G; STRUCTURAL STUDIES IN INORGANIC CHEMISTRY (P010189 001); 24 MONTHS \$48,000

SCHLEYER, PAUL VON R; CARBONIUM IONS AND FREE RADICALS-REACTIONS, REACTIVITY AND STRUCTURE (P030079 X01); 12 MONTHS \$42,000

MISLOW, KURT; STRUCTURE AND MECHANISM IN ORGANOMETALLOID CHEMISTRY (P030087 X00); 12 MONTHS \$90,100

JONES, MAITLAND JR; REACTIVE INTERMEDIATES (P030787 X00); 12 MONTHS \$39,800

MCCLURE, DONALD S; ELECTRONIC SPECTROSCOPY (P030881 X00); 12 MONTHS \$75,900

RUTGERS UNIVERSITY

DENNEY, DONALD B; ORGANOPHOSPHORUS CHEMISTRY (P018889 001); 12 MONTHS \$18,800

GOODMAN, LIONEL; ELECTRONIC PROMOTION (P031488 X00); 12 MONTHS \$43,800

MOSS, ROBERT A; CARBENE, DIAZOTATE, AND MICELLAR ORGANIC CHEMISTRY (P032159 X00); 12 MONTHS \$24,400

LATTY, RICHARD W; ION MOBILITY IN MOLTEN SALTS (P033857); 12 MONTHS \$27,000

WASSERMAN, EDEL; PHOTOREACTIONS IN THE ATMOSPHERE (P034493 X00); 12 MONTHS \$27,800

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

LWOWSKI, WALTER; ELECTRON-DEFICIENT MOLECULES II (P027951 X01); 12 MONTHS \$26,000

UNIVERSITY OF NEW MEXICO

NECKERS, DOUGLAS C; PHOTOCHEMICAL AND FREE RADICAL REACTIONS USING POLYMERS (P033586); 24 MONTHS \$31,600

NEW YORK

CLARKSON COLLEGE OF TECHNOLOGY

MEITES, LOUIS; DIFFERENTIAL EBULLIOMETRY AND DIFFERENTIAL EBULLIOMETRIC TITRATIONS (P010393 009); 24 MONTHS \$32,300

MATJEVIC, EGON; INTERACTIONS OF COMPLEX SOLUTE SPECIES WITH CHARGED INTERFACES (P018220 001); 24 MONTHS \$37,500

KERKER, MILTON; PHYSICAL CHEMICAL STUDIES OF AEROSOLS (P033854 X00); 12 MONTHS \$75,000

COLLEGE AT FREDONIA

KELLER, ROY A. AND KARASEK, FRANCIS W; ULTRATRACE ANALYSIS BY PLASMA CHROMATOGRAPHY (P031881); 24 MONTHS \$70,000

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

SZWARC, MICHAEL; IONS, ION-PAIRS, RADICAL-IONS AND ELECTRON TRANSFER PROCESSES (P027749 X01); 12 MONTHS \$72,000

COLUMBIA UNIVERSITY

STERN, RICHARD C; MOLECULAR BEAM STUDY OF INELASTIC ELECTRON-MOLECULE COLLISIONS (P011831 008); 24 MONTHS \$44,800

STORK, GILBERT; SYNTHETIC METHODS AND TOTAL SYNTHESIS IN ORGANIC CHEMISTRY (P013785 X01); 12 MONTHS \$63,800

PECHUKAS, PHILIP; SEMICLASSICAL APPROXIMATION IN MOLECULAR QUANTUM MECHANICS (P019097 001); 24 MONTHS \$28,800

BERNE, BRUCE J; DYNAMICS OF MOLECULAR MOTION IN CONDENSED MEDIA (P022881 001); 12 MONTHS \$27,300

TURRO, NICHOLAS J; CHEMISTRY OF STRAINED RING COMPOUNDS (P026608 X00); 12 MONTHS \$41,000

KATZ, THOMAS J; THE CATALYSIS OF CYCLOADDITION REACTIONS (P030048 X00); 12 MONTHS \$32,300

ZARE, RICHARD N; MOLECULAR FLUORESCENCE WITH EMPHASIS ON LASER EXCITATION (P031536 X00); 12 MONTHS \$77,800

DAILEY, BENJAMIN P; MICROWAVE STUDIES OF MOLECULAR MAGNETISM (P033589); 24 MONTHS \$40,000

CORNELL UNIVERSITY

SCHOLER, FREDERICK R; HETERONUCLEAR POLYHEDRAL BORANES (P017053 001); 12 MONTHS \$10,100

SIENKO, M J; LONG-RANGE INTERACTIONS AND PHASE RELATIONS IN CONCENTRATED METAL-AMMONIA SYSTEMS (P017208 001); 24 MONTHS \$62,000

HOFFMANN, ROALD; TRANSITION STATES AND INTERMEDIATES IN ORGANIC AND INORGANIC REACTIONS (P028137 X01); 12 MONTHS \$62,900

FAY, ROBERT C; STEREOCHEMISTRY AND CONFIGURATIONAL REARRANGEMENTS OF METAL CHELATES (P030089 X00); 12 MONTHS \$27,200

MORRISON, GEORGE H; QUANTITATIVE MASS SPECTROSCOPY OF SOLIDS (P030940 X00); 12 MONTHS \$48,300

MILLER, WILLIAM T; CHEMISTRY OF CARBON-FLUORINE COMPOUNDS - HIGHLY FLUORINATED ORGANOMETALLIC COMPOUNDS AS REACTION INTERMEDIATES (P031788 X00); 12 MONTHS \$41,000

BAUER, SIMON H; INTRAMOLECULAR GEOMETRY BY GAS PHASE ELECTRON DIFFRACTION (P034040); 24 MONTHS \$38,400

NEW YORK UNIVERSITY

MOSKOWITZ, JULES W; HYDROGEN BONDING AND THE STRUCTURE OF AQUEOUS SOLUTIONS (P010391 001); 24 MONTHS \$28,400

SCHUSTER, DAVID I; *MECHANISTIC INVESTIGATIONS IN KETONE PHOTOCHEMISTRY* (P010818 001); 24 MONTHS \$30,200
 SUNDHEIM, BENSON R; *PHOTOCHEMICAL PROCESSES IN FUSED SALTS* (P014613 001); 24 MONTHS \$46,900
 DELAHAY, PAUL; *PHOTOELECTRON AND THERMIONIC EMISSION BY SOLUTIONS AND MOLTEN SALTS* (P030818 X00); 12 MONTHS \$50,000

RENSSELAER POLYTECHNIC INSTITUTE

JANZ, GEORGE J; *HIGHLY CONCENTRATED SALT SOLUTIONS* (P033381 X00); 12 MONTHS \$29,800

ROCKEFELLER UNIVERSITY

FIELD, FRANK H; *TEMPERATURE EFFECTS IN HIGH PRESSURE MASS SPECTROMETRY* (P028718 X01); 12 MONTHS \$41,300

STATE UNIVERSITY AT ALBANY

FRISCH, H L; *STATISTICAL MECHANICS AND TRANSPORT OF CLASSICAL FLUIDS* (P019911 001); 24 MONTHS \$65,000

KUUVILA, HENRY G; *STUDIES IN ORGANOTIN CHEMISTRY* (P029143 X01); 12 MONTHS \$22,500

STATE UNIVERSITY AT BINGHAMTON

INNES, K KEITH; *MOLECULAR ELECTRONIC SPECTRA AND STRUCTURE* (P027941 X01); 12 MONTHS \$42,100

EISCH, JOHN J; *CHEMICAL CONSEQUENCES OF UNSATURATION IN CYCLIC ORGANOBORANES* (P031804 X00); 12 MONTHS \$30,600

STATE UNIVERSITY AT BUFFALO

COPPENS, PHILIP; *DIFFRACTION METHODS FOR OBTAINING MOLECULAR CHARGE DISTRIBUTIONS* (P028104 001); \$35,200

RITCHIE, CALVIN D; *SOLVENT EFFECTS ON REACTIVITY* (P029184 X01); 12 MONTHS \$22,100

MARINSKY, JACOB A; *ION AND SOLVENT SELECTIVITY IN MIXED AND NON-AQUEOUS MEDIA* (P011537); 24 MONTHS \$32,000

WILKINS, RALPH G; *THE STUDY OF RAPID INORGANIC REACTIONS IN SOLUTION* (P030081 X00); 12 MONTHS \$31,600

WUHL, FRED; *THE STUDY AND APPLICATIONS OF THE CHEMISTRY OF STABLE ORGANIC RADICAL CATIONS* (P031097); 24 MONTHS \$25,100

STATE UNIVERSITY AT STONY BROOK

HAIM, ALBERT; *REDOX REACTIONS OF COORDINATION COMPOUNDS* (P028489 001); 12 MONTHS \$30,000

JOHNSON, PHILIP M; *ENERGY EVOLUTION IN ELECTRONICALLY EXCITED MOLECULES* (P014439 001); 24 MONTHS \$43,300

FRIEDMAN, HAROLD L; *NMR METHODS FOR STUDYING ION DISTRIBUTIONS IN SOLUTIONS* (P031815); 24 MONTHS \$47,000

LE NOBLE, WILLIAM J; *REACTIONS IN COMPRESSED SOLUTIONS* (P030911 X00); 12 MONTHS \$42,000

HANSON, DAVID M; *STARK SPECTROSCOPY OF MOLECULAR SOLIDS* (P031127 X00); 12 MONTHS \$43,000

SYRACUSE UNIVERSITY

PRINS, WILLEM; *ELASTIC AND QUASI-ELASTIC LIGHT SCATTERING BY POLYMER GELS* (P031755); 24 MONTHS \$44,900

BRUMBERGER, HARRY; *CRITICAL SCATTERING OF THE LIQUID SODIUM-LITHIUM SYSTEM* (P033879); 24 MONTHS \$21,200

UNIVERSITY OF ROCHESTER

MUENTER, JOHN S; *MOLECULAR BEAM STUDIES OF THE ELECTRONIC STRUCTURE OF SMALL MOLECULES* (P018805 001); 24 MONTHS \$37,000

MOROKUMA, KEIJI; *THEORETICAL INVESTIGATION OF CHEMICAL REACTIONS OF EXCITED STATES* (P031998 X00); 12 MONTHS \$27,900

YESHIVA UNIVERSITY

LIPSICAS, MAX; *N.M.R. MEASUREMENTS IN GASES AND LIQUIDS* (P028334 X01); 12 MONTHS \$28,000

NORTH CAROLINA

DAVIDSON COLLEGE

BURNETT, JOHN NICHOLAS; *APPLICATIONS OF STOPPED-FLOW KINETICS IN ELECTROCHEMISTRY* (P030668); 24 MONTHS \$22,900

DUKE UNIVERSITY

PALMER, RICHARD A; *OPTICAL, MAGNETIC AND STRUCTURAL PROPERTIES OF METAL-CONTAINING INORGANIC HETEROCYCLES* (P013470 001); 24 MONTHS \$30,900

EAST CAROLINA UNIVERSITY

LAMB, ROBERT C; *KINETICS-EFFICIENCY EXPERIMENTS ON SOME UNSYMMETRICALLY SUBSTITUTED BENZOYL PEROXIDES* (P013815 001); 24 MONTHS \$26,000

NORTH CAROLINA AGRICULTURAL & TECH STATE UNIV

WEAVER, JOHN A; *COSY D RESEARCH INITIATION - ISOMERIZATION OF CYCLOPROPANES, ETHYLENE OXIDES AND RELATED COMPOUNDS UNDER THERMOLYTIC AND PHOTOLYTIC CONDITIONS* (Y010145); 15 MONTHS \$21,500

SULLIVAN, WALTER W; *COSY D RESEARCH INITIATION - SYNTHESIS AND REACTIONS OF 1,10 PHENANTHRYNE* (Y010150); 15 MONTHS \$21,600

NORTH CAROLINA CENTRAL UNIVERSITY

TOTTON, ERZA L; *COSY D RESEARCH INITIATION - THE SYNTHESIS OF PHYSIOLOGICALLY ACTIVE COMPONENTS* (Y010148); 39 MONTHS \$49,700

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

TUCKER, WILLIAM P; *CONTRIBUTIONS OF SULFUR TO RESONANCE STABILIZATION* (P018278 001); 24 MONTHS \$26,100

LONG, G GILBERT, AND BOWEN, LAWRENCE H; *MOSSBAUER SPECTROSCOPY OF ANTIMONY COMPOUNDS* (P033518 X00); 12 MONTHS \$34,000

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

RICE, OSCAR K; *CRITICAL PHENOMENA AND LIQUID HELIUM* (H034801 X00); 12 MONTHS \$19,100

MEYER, THOMAS J; *ELECTRON TRANSFER STUDIES ON ORGANOMETALLIC COMPLEXES* (P017084 001); 24 MONTHS \$28,400

ISENHOUR, THOMAS L; *COMPUTERIZED LEARNING MACHINES APPLIED TO CHEMICAL PROBLEMS* (P017471 001); 24 MONTHS \$48,100

HATFIELD, WILLIAM E; *SPIN-SPIN COUPLING IN MAGNETICALLY CONDENSED COMPLEXES* (P028287 001); 24 MONTHS \$42,000

REILLEY, CHARLES N; *PROTON AND CARBON-13 NMR STUDIES OF CHELATES OF POLYAMINE COMPOUNDS* (P030694 X00); 12 MONTHS \$23,200

JOHNSON, CHARLES S JR; *MAGNETIC RESONANCE STUDY OF MOLECULAR STRUCTURE AND CHEMICAL RATE PROCESSES* (P031884 X00); 12 MONTHS \$48,600

HERMANS, J J; *CORRELATION FUNCTIONS IN SOLUTIONS OF LARGE MOLECULES* (P033145); 24 MONTHS \$43,600

RIEKE, REUBEN D; *ELECTROCHEMICAL STUDIES ON PHOSPHOROUS CONTAINING COMPOUNDS* (P033111 X00); 12 MONTHS \$28,700

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

HERMAN, HARVEY B; *ELECTROCHEMICAL MEASUREMENT OF THE RATES OF CHEMICAL REACTIONS* (P015374 001); 12 MONTHS \$18,000

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA

KLABUNDE, KENNETH J; *CARBONMONOSULFIDE CHEMISTRY* (P031433); 24 MONTHS \$18,300

OHIO

NONE; OTHER PROGRAM AWARDS (01AWDS); \$76

CASE WESTERN RESERVE UNIVERSITY

FACKLER, J P JR; *CHEMISTRY OF COORDINATION COMPOUNDS* (P011701 001); 24 MONTHS \$61,700

OLAH, GEORGE A; *STABLE, LONG-LIVED ORGANIC IONS* (P018098 X01); 12 MONTHS \$40,500

KLOPMAN, GILLES; *SELF CONSISTENT FIELD CALCULATIONS OF CHEMICAL REACTIVITY* (P019985 001); 24 MONTHS \$32,400

CARLSON, K DOUGLAS; *INFRARED SPECTROSCOPY AND STRUCTURES OF HIGH TEMPERATURE MOLECULES* (P028128 001); \$27,700

SIMHA, ROBERT; *THEORETICAL EQUILIBRIUM AND KINETIC STUDIES OF COOPERATIVE PROCESSES IN MACROMOLECULES* (P030485); 24 MONTHS \$30,100

HRONES, JOHN A; *A MAJOR INSTRUMENTS FACILITY* (P033338 X00); 12 MONTHS \$75,000

ABRAHAMSON, EDWIN W; *ELECTRONIC ENERGY TRANSFER IN THE GAS PHASE* (P033669 X00); 12 MONTHS \$27,100

DUNBAR, ROBERT C; *PROPERTIES AND REACTIONS OF CATIONS* (P033581 X00); 12 MONTHS \$19,000

KENNEY, MALCOLM E; *PHTHALOCYANINES AND SIMILAR MACROCYCLES* (P033528 X00); 12 MONTHS \$31,800

URBACH, FRED L; *CIRCULAR DICHROISM AND RELATED STUDIES OF LOW-SYMMETRY METAL CHELATES* (P033851); 24 MONTHS \$43,800

OHIO STATE UNIVERSITY

NEWMAN, MELVIN S; *NEW SYNTHETIC REACTIONS BY THE β,β -BICYCLIC MECHANISM* (P018145 X0); 12 MONTHS \$39,900

NIELSEN, HARALD H, AND RAO, K NARAHARI; *ANNUAL SYMPOSIA ON MOLECULAR STRUCTURE AND SPECTROSCOPY* (P018914 001); \$3,300

SHECHTER, HAROLD; *CARBENIC PROCESSES - THE CHEMISTRY OF DIAZO COMPOUNDS AND RELATED INTERMEDIATES* (P022245 X01); 12 MONTHS \$41,300

LEUSSING, DANIEL L; *CATALYSIS BY LABILE METAL IONS IN MIXED LIGAND SYSTEMS* (P023515 X01); 12 MONTHS \$38,400

SHORE, SHELDON G; *INTERMEDIATE BORON HYDRIDES AND THEIR DERIVATIVES* (P025333 X01); 12 MONTHS \$39,900

BUSCH, DARYLE H; *METAL COMPLEXES OF LINEAR AND MACROCYCLIC TETRADENTATE LIGANDS* (P028998 X01); 12 MONTHS \$41,500

GASSMAN, PAUL G; *CHEMISTRY OF BENT BONDS* (P03094; X00); 12 MONTHS \$50,000

KUWANA, THEODORE; *OPTICALLY TRANSPARENT ELECTRODES* (P031246); 24 MONTHS \$62,900

HINE, JACK; *EFFECT OF STRUCTURE ON RATES AND EQUILIBRIA* (P022461 X00); 12 MONTHS \$28,000

OUELLETTE, ROBERT J; CONFORMATIONAL STUDIES USING NUCLEAR MAGNETIC RESONANCE (P03343); 24 MONTHS \$34,100
 HORTON, DEREK; CONFORMATIONAL ANALYSIS OF CYCLIC AND ACYCLIC SUGARS AND THEIR DERIVATIVES (P033344); 24 MONTHS \$35,000

OHIO UNIVERSITY

CLEARFIELD, ABRAHAM; STRUCTURAL STUDIES ON SYNTHETIC INORGANIC ION EXCHANGE COMPOUNDS (P049030 001); \$5,800

UNIVERSITY OF AKRON

FREDERICK, JOHN E; INTRAMOLECULAR MOTION AND DIFFUSION OF RANDOM COIL AND ROD-LIKE MACROMOLECULES IN SOLUTION (P008318 001); 24 MONTHS \$27,100

UNIVERSITY OF CINCINNATI

DAY, RICHARD A; MASS SPECTROMETRY OF PEPTIDES (P034481); 24 MONTHS \$29,700

UNIVERSITY OF TOLEDO

THOMPSON, H BRADFORD, AND JACOB, E JEAN; THE GEOMETRY OF AMIDE-LIKE NITROGEN (P033455 X00); 12 MONTHS \$23,600

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

DEVILIN, J PAUL; A VIBRATIONAL STUDY OF THE STRUCTURES OF DISORDERED IONIC CRYSTALS, GLASSES AND MELTS (P033411); 24 MONTHS \$30,900

MAINS, GILBERT J; TENTH INFORMAL CONFERENCE ON PHOTOCHEMISTRY (P033377); 6 MONTHS \$3,600

UNIVERSITY OF OKLAHOMA

HAGEN, ARNULF P; HIGH PRESSURE SYNTHESIS OF INORGANIC AND ORGANOMETALLIC COMPOUNDS (P019873 001); 24 MONTHS \$40,200

CHRISTIAN, SHERRIL D; MOLECULAR COMPLEXES OF WATER IN ORGANIC MEDIA (P033318 X00); 12 MONTHS \$30,000

ATKINSON, GORDON; ULTRASONIC INVESTIGATION OF POLYELECTROLYTE SOLUTIONS (P033781 X00); 12 MONTHS \$28,000

FUNG, B M; NUCLEAR MAGNETIC RESONANCE STUDY OF LIQUID CRYSTALLINE POLYPEPTIDE SOLUTIONS (P034408); 24 MONTHS \$38,600

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OREGON STATE UNIVERSITY

HAWKES, STEPHEN J; OPTIMIZATION IN CHROMATOGRAPHY (P015110 001); 24 MONTHS \$32,000

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BALDWIN, JOHN E; SYNTHESIS AND REACTIONS OF HYDROCARBONS (P031415 001); \$30,000

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CARNEGIE-MELLON UNIVERSITY

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COMBUSTION INSTITUTE

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GUILLORY, WILLIAM ARNOLD; THE MATRIX-ISOLATED INFRARED AND ULTRAVIOLET SPECTRA OF IONIC SPECIES (P033836); 24 MONTHS \$34,000

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YOUNG, THOMAS E; SULFUR BONDING IN POTENTIALLY AROMATIC DITHIA HETEROCYCLIC COMPOUNDS (P008397 002); 12 MONTHS \$12,000

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PARSONS, JEFFREY R; *PREHISPANIC SETTLEMENT PATTERNS IN THE VALLEY OF MEXICO (S031911)*; 24 MONTHS \$46,500

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WOLPOFF, MILFORD H; *LOWER PLEISTOCENE HOMINID MORPHOLOGY (S033025)*; 6 MONTHS \$11,500

MINNESOTA

UNIVERSITY OF MINNESOTA

KISTE, ROBERT C; *DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S030132)*; 13 MONTHS \$3,400

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

ROWLETT, RALPH; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S031997); 12 MONTHS \$4,400

GAVAN, JAMES A. AND DWYER, SAMUEL J; FUNCTIONAL SHAPE ANALYSIS OF PRIMATE SKELETAL MATERIALS (S033101); 12 MONTHS \$20,300

WOOD, W. RAYMOND; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S033934); 12 MONTHS \$4,600

WASHINGTON UNIVERSITY

LEBLANC, STEVEN A. AND WATSON, PATTY JO; PREHISTORIC CULTURE AND ENVIRONMENT IN WEST CENTRAL NEW MEXICO (S032987); 24 MONTHS \$69,000

NEBRASKA

DANA COLLEGE

LEHMER, DONALD J; CULTURAL ECOLOGY OF THE HIDATSA INDIANS (S003009 001); 12 MONTHS \$26,200

UNIVERSITY OF NEBRASKA AT LINCOLN

HENNING, DALE R; ANALYSIS OF AN ONEOTA SUBSISTENCE SYSTEM (S033107); 12 MONTHS \$12,400

NEW JERSEY

PRINCETON UNIVERSITY

SILVERMAN, MARTIN G; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S030651); 12 MONTHS \$2,350

NEW MEXICO

SCHOOL OF AMERICAN RESEARCH

SCHWARTZ, DOUGLAS W; CULTURAL AND ECOLOGICAL RAMIFICATIONS OF POPULATION GROWTH (S018001 X01); \$23,380

SCHWARTZ, DOUGLAS W; CULTURAL AND ECOLOGICAL RAMIFICATIONS OF POPULATION GROWTH (S028001 X02); 12 MONTHS \$68,900

UNIVERSITY OF NEW MEXICO

BINFORD, LEWIS R; THE ECONOMICS OF ESKIMO HUNTING: PAST AND PRESENT (S028440 X01); 12 MONTHS \$30,100

NEW YORK

CITY COLLEGE

MCLENDON, SALLY; A DICTIONARY OF EASTERN POMO (S032154); 12 MONTHS \$15,600

COLUMBIA UNIVERSITY

SOLECKI, RALPH S; PALEOZOLOGICAL INVESTIGATIONS FROM THE MIDDLE PALEOLITHIC TO THE NEOLITHIC IN THE NEAR EAST (S002222 001); 24 MONTHS \$41,700

HARRIS, MARVIN; AUTHORITY AND SUPERORDINATION IN URBAN FAMILIES (S002918 001); 20 MONTHS \$22,000

COHEN, MYRON L. AND PASTERNAK, BURTON; SOCIAL AND ECONOMIC ATTRIBUTES OF A RURAL SOCIETY (S028179 X01); 12 MONTHS \$27,000

COHEN, MYRON L. AND PASTERNAK, BURTON; SOCIAL AND ECONOMIC ATTRIBUTES OF A RURAL SOCIETY (S028179 X02); \$2,000

HOLLOWAY, RALPH L; EVOLUTION OF THE HUMAN BRAIN (S032231 X01); 12 MONTHS \$11,300

PITKIN, HARVEY; DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (S030117); 24 MONTHS \$4,000

VAYDA, A. P.; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S030290); 18 MONTHS \$6,800

MURPHY, ROBERT F; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S030632); 12 MONTHS \$2,650

PITKIN, HARVEY; DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (S031104); 12 MONTHS \$5,200

PITKIN, HARVEY; A DICTIONARY OF YUKI, A LANGUAGE OF NORTHERN CALIFORNIA (S032151); 12 MONTHS \$11,100

FRIED, MORTON H; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S032389); 24 MONTHS \$5,100

JOHNSON, ALLEN W; COGNITION AND BEHAVIOR IN SUBSISTENCE ECOLOGY (S033011); 30 MONTHS \$57,100

PITKIN, HARVEY; DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS (S031035); 12 MONTHS \$1,900

HARRIS, MARVIN; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S031665); 24 MONTHS \$6,800

MURPHY, ROBERT F; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S031930); 12 MONTHS \$3,250

CORNELL UNIVERSITY

GRIMES, JOSEPH E; CROSS LANGUAGE STUDY OF DISCOURSE STRUCTURES (S003180 001); 24 MONTHS \$44,600

KENNEDY, KENNETH A. R; ECOLOGY AND EVOLUTION OF PREHISTORIC MAN (S030117); 24 MONTHS \$22,600

SMITH, ROBERT J; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S030907); 12 MONTHS \$5,000

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SZALAY, FREDERICK; FUNCTIONAL STUDIES OF THE POSTCRANIAL MORPHOLOGY OF PRIMATES (S033115); 24 MONTHS \$26,100

QUEENS COLLEGE

JOCHNOWITZ, GEORGE; SYNCHRONIC AND DIACHRONIC ANALYSES OF JUDO-ITALIAN DIALECTS (S002058 001); \$1,530

TOLSTOY, PAUL; ARCHAEOLOGICAL INVESTIGATIONS AT TLAPACOYA, MEXICO (S028809 001); 12 MONTHS \$13,900

STATE UNIVERSITY AT BINGHAMTON

VAN DER MERWE, NIKOLAAS; ARCHAEOLOGY OF THE IRON AGE IN THE PHALABORWA AREA (S033226 X00); 16 MONTHS \$48,900

VAN DER MERWE, NIKOLAAS J; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S031776); 24 MONTHS \$6,500

STATE UNIVERSITY AT BUFFALO

NAROLL, RAOUL; ACCULTURATION SEQUENCES (S030561); 12 MONTHS \$27,600

TEACHERS COLLEGE

COMITAS, LAMBROS; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S031995); 12 MONTHS \$3,900

UNIVERSITY OF ROCHESTER

DAY, CHRISTOPHER; JACALTEC DICTIONARY (S030191); 19 MONTHS \$22,600

DAY, CHRISTOPHER; JACALTEC DICTIONARY (S030191 001); \$1,200

DAY, CHRISTOPHER; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S030633); 12 MONTHS \$2,100

DAY, CHRISTOPHER; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S030633 001); 12 MONTHS \$3,600

NORTH CAROLINA

DUKE UNIVERSITY

BUETTNER-JANUSCH, JOHN; PRIMATE HEMOGLOBINS (S030637 X00); 12 MONTHS \$46,300

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HONIGSMANN, JOHN J; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S030675); 24 MONTHS \$7,600

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UNIVERSITY OF OKLAHOMA

DUBOIS, ROBERT L; DEVELOPMENT OF AN ARCHEOMAGNETIC CHRONOLOGY FOR MESAAMERICA (S029182 X01); 12 MONTHS \$29,000

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UNIVERSITY OF OREGON - EUGENE

AIKENS, C. MELVIN; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S030271); 12 MONTHS \$4,900

STERN, THEODORE; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S030637); 12 MONTHS \$1,400

PENNSYLVANIA

PENNSYLVANIA STATE UNIVERSITY

DYKE, BENNETT; COMPUTER SIMULATION OF GENETIC-DEMOGRAPHIC STRUCTURE (S027322 001); 12 MONTHS \$44,900

SANDERS, WILLIAM T; ECOLOGICAL SURVEY OF THE BASIN OF MEXICO (S033952); 12 MONTHS \$24,500

UNIVERSITY OF PENNSYLVANIA

RAINEY, FROELICH; DATING OF POTTERY AND PAIENCE BY THERMOLUMINESCENCE (S002718 001); 12 MONTHS \$34,000

LINARES DE SAPIR, OLOA; ARCHAEOLOGICAL INVESTIGATIONS IN WESTERN PANAMA (S002816 001); 12 MONTHS \$26,400

KIDDER, ALFRED II; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S030510); 12 MONTHS \$2,600

GOODENOUGH, WARD H; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S031233); 25 MONTHS \$1,200

WALLACE, ANTHONY F. C; CULTURE CHANGE IN THE INDUSTRIAL REVOLUTION (S033036); 24 MONTHS \$59,400

GOODENOUGH, WARD H; TRUK LEXICOGRAPHY AND GRAMMAR (S033122); 24 MONTHS \$12,700

GOODENOUGH, WARD H; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S031866); 12 MONTHS \$7,900

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WHITE, DOUGLAS R; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S030227); 13 MONTHS \$3,000

RICHARDSON, JAMES B III; CULTURAL EVOLUTION AND ECOLOGY OF THE TALARA REGION (S032861); 15 MONTHS \$27,600

NUTINI, HUGO G; ETHNOHISTORICAL STUDY OF SYNCRETISM AND ACCULTURATION (S032451); 12 MONTHS \$10,100

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BROWN UNIVERSITY

DEETZ, JAMES; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (S031075); 12 MONTHS \$8,100

TEXAS

RICE UNIVERSITY

GAMST, FREDERICK C; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (SO01837); 12 MONTHS \$2,750

SOUTHERN METHODIST UNIVERSITY

WENDORF, FRED; PREHISTORY OF THE RIFT VALLEY (SO07225 001); 24 MONTHS \$49,800

MARKS, ANTHONY E; PREHISTORIC SETTLEMENT AND INTRASITE PATTERNING IN THE CENTRAL NEGEV, ISRAEL (SO08604 X01); 12 MONTHS \$54,700

WENDORF, FRED; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (SO08639); 6 MONTHS \$2,400

MARKS, ANTHONY; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (SO08974); 6 MONTHS \$2,900

WETHERINGTON, RONALD K; HIGHLAND MAYAN CERAMICS (SO08988); 12 MONTHS \$22,800

SAMPSON, C GARTH; ARCHAEOLOGY OF THE BRITISH ACHEULIAN (SO08994); 12 MONTHS \$56,700

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WARDLAW, FRANK H; PUBLICATION OF URBANIZATION AT TEOTIHUACAN, MEXICO, VOLUME I (NO01397*); 24 MONTHS \$18,300

WARDLAW, FRANK H; PUBLICATION OF 'SAN LORENZO. OLMEC MAN AND OLMEC LAND' (NO01147*); 60 MONTHS \$22,900

SELBY, HENRY A; DECISION-MAKING IN CULTURE (SO00563); 12 MONTHS \$28,400

MACLACHLAN, MORGAN D; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (SO01640); 24 MONTHS \$4,750

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KLEIN, RICHARD G; EXCAVATION OF MIDDLE STONE AGE SITES IN SOUTH AFRICA (SO00013 001); 12 MONTHS \$6,500

WASHINGTON STATE UNIVERSITY

IRWIN, HENRY T, AND FRYKELL, ROALD; ARCHAEOLOGY OF A PALEOLITHIC SITE IN SPAIN (SO00005 001); 12 MONTHS \$5,500

DAUGHERTY, RICHARD D; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (SO01252); 6 MONTHS \$1,300

SASO, MICHAEL RALEIGH; SOCIETY IN CHANGE (SO03022); 24 MONTHS \$28,000

FERRELL, RALEIGH; ETHNOGRAPHIC FIELDWORK AMONG THE RUKAI OF TAIWAN (SO03314); 24 MONTHS \$12,000

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UNIVERSITY OF WISCONSIN, MADISON

THOMPSON, DONALD E; LATE PREHISTORY OF THE EASTERN SLOPES OF THE ANDES (SO08836 002); 12 MONTHS \$4,700

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BAERREIS, DAVID A; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (SO00168); 12 MONTHS \$500

BAERREIS, DAVID A; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (SO00229); 12 MONTHS \$1,650

ROBINSON, J T; DOCTORAL DISSERTATION RESEARCH IN PHYSICAL ANTHROPOLOGY (SO01039); 12 MONTHS \$2,500

BAERREIS, DAVID A; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (SO01074); 12 MONTHS \$4,400

UNIVERSITY OF WISCONSIN, MILWAUKEE

FOWLER, MELVIN L; CAHOKIA ARCHAEOLOGY (SO03004 001); 15 MONTHS \$56,600

TAPPEN, NEIL C; THE ORGANIZATION OF BONE IN FOSSIL HOMINIDS (SO03051); 24 MONTHS \$44,400

TAPPEN, NEIL C; THE ORGANIZATION OF BONE IN FOSSIL HOMINIDS (SO03051 001); \$1,500

FOWLER, MELVIN L; DOCTORAL DISSERTATION RESEARCH IN ANTHROPOLOGY (SO03144); 12 MONTHS \$2,950

GREENFIELD, SIDNEY M; ORIGINS OF THE SOUTH ATLANTIC SYSTEM (SO03145); 17 MONTHS \$26,000

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ANDERSON, T W, AND AMEMIYA, TAKESHI; SELECTED TOPICS IN ECONOMETRIC THEORY (SO02635 001); 24 MONTHS \$128,200

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KURZ, MORDECAI; ECONOMIC BEHAVIOR UNDER UNCERTAINTY (SO02889 001); \$13,400

YOTPOULOS, PAN A; DOCTORAL DISSERTATION RESEARCH IN ECONOMICS (SO03039); 12 MONTHS \$3,700

MANNE, ALAN S, AND MAJUMDAR, MUKUL K; MULTISECTOR DEVELOPMENT PLANNING (SO03077); 24 MONTHS \$81,000

BOSKIN, MICHAEL J; DOCTORAL DISSERTATION RESEARCH IN ECONOMICS (SO03382); 12 MONTHS \$1,400

ROSSE, JAMES N; DOCTORAL DISSERTATION RESEARCH IN ECONOMICS (SO03755); 18 MONTHS \$1,800

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GEORGE WASHINGTON UNIVERSITY

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UNIVERSITY OF MIAMI

MYERS, RAMON H; ECONOMIC EFFICIENCY AND CHINESE AGRICULTURE (SO02075); 6 MONTHS \$2,300

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NORTHWESTERN UNIVERSITY

EISNER, ROBERT; INVESTMENT THEORY AND TECHNICAL PROGRESS (SO02502 001); 12 MONTHS \$36,300

EISNER, ROBERT; INVESTMENT THEORY AND TECHNICAL PROGRESS (SO02502 002); \$600

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 NELSON, CHARLES R; TOPICS IN ECONOMETRICS (S041501); 12 MONTHS \$12,300

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INDIANA UNIVERSITY, BLOOMINGTON

BATEMAN, FRED, AND FOUST, JAMES D; COLLABORATIVE RESEARCH ON UNITED STATES MANUFACTURING (S004156 001); 24 MONTHS \$41,600

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

FOX, KARL A; ECONOMICS OF HIGHER EDUCATION (S009112 001); 24 MONTHS \$89,800

UNIVERSITY OF IOWA

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UNIVERSITY OF KANSAS

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UNIVERSITY OF MARYLAND, COLLEGE PARK

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BOSTON UNIVERSITY

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WASHINGTON UNIVERSITY

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TAUBMAN, PAUL, AND JUSTER, F THOMAS; DETERMINANTS OF THE DISTRIBUTION OF INCOME AND EARNINGS (S041324); 12 MONTHS \$136,900

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FISHER, FRANKLIN M, AND SOLOW, ROBERT M; AGGREGATE PRODUCTION FUNCTIONS AND THE EXPLANATION OF WAGES (S043773); 12 MONTHS \$36,500

NEW YORK UNIVERSITY

MACHLUP, FRITZ; KNOWLEDGE INDUSTRIES AND KNOWLEDGE OCCUPATIONS (S041887 X00); 12 MONTHS \$66,200

BAUMOL, W J; ECONOMIC POLICY FOR THE ENVIRONMENT (S043511 X00); 12 MONTHS \$53,800

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KLEIN, LAWRENCE R; PROJECT LINK - ECONOMETRIC MODELS (S004610 001); 24 MONTHS \$128,900

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FRIEDMAN, JAMES W; THEORETICAL RESEARCH IN GAME THEORY, OLIGOPOLY AND INDIVIDUAL BEHAVIOR (S004183 001); 24 MONTHS \$50,000

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NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

WALLACE, THOMAS D; *THE MEAN SQUARED ERROR TEST FOR PARAMETER RESTRICTIONS IN ECONOMETRIC MODELS* (SOJ008J); 30 MONTHS \$60,000

OHIO

OHIO UNIVERSITY

PEJOVICH, SVETOZAR; *AN ANALYSIS OF THE YUGOSLAV ECONOMIC SYSTEM* (SOJ118J); 24 MONTHS \$38,500

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

LUCAS, ROBERT E; *STUDIES IN BUSINESS CYCLE THEORY* (SO0273J 001); 24 MONTHS \$83,200

CVERT, RICHARD M, AND DEGROOT, MORRIS H; *BAYESIAN ANALYSIS AND ECONOMIC THEORY* (SOJ331J); 24 MONTHS \$65,000

CASS, DAVID; *STUDIES IN CAPITAL AND GROWTH THEORY* (SOJ333J); 24 MONTHS \$28,700

LIRI, YUJI; *FIRM SIZE DISTRIBUTIONS* (SOJ333J); 24 MONTHS \$48,000

PENNSYLVANIA STATE UNIVERSITY

RODGERS, JAMES D; *COLLABORATIVE RESEARCH ON UTILITY INTERDEPENDENCE, INCOME REDISTRIBUTION AND FISCAL STRUCTURE* (SOJ334J X00); 12 MONTHS \$24,100

UNIVERSITY OF PENNSYLVANIA

SHELL, KARL; *INTERTEMPORAL ECONOMICS* (SO0242J 002); \$2,700

ANDO, ALBERT X; *ECONOMETRIC ANALYSIS OF THE U. S. ECONOMY* (SOJ335J X00); 12 MONTHS \$46,600

UNIVERSITY OF PENNSYLVANIA-WHARTON SCHOOL OF FINANCE AND COMMERCE

SHELL, KARL, AND HELLER, WALTER P; *INTERTEMPORAL ECONOMICS* (SO0242J 001); 24 MONTHS \$66,500

FRIEND, IRWIN, BLUME, MARSHALL, CROCKETT, JEAN, AND DHRMES, PHOEBUS; *PORTFOLIO BEHAVIOR OF HOUSEHOLDS AND FINANCIAL INTERMEDIARIES* (SOJ331J); 24 MONTHS \$90,000

RHODE ISLAND

BROWN UNIVERSITY

GROSSMAN, HERSCHEL J; *INFLATION, EMPLOYMENT, AND THE THEORY OF MARKETS* (SO0241J 002); 24 MONTHS \$29,600

TENNESSEE

UNIVERSITY OF TENNESSEE, KNOXVILLE

FEIWEL, GEORGE R; *INDUSTRIALIZATION AND CENTRAL PLANNING IN BULGARIA* (SO02970 001); \$10,200

VANDERBILT UNIVERSITY

FINEGAN, T ALDRICH; *LABOR MARKET CONDITIONS AND THE LABOR FORCE PARTICIPATION OF MINORITIES* (SO03158 002); \$2,300

TEXAS

RICE UNIVERSITY *

LAND, JAMES W; *DISTRIBUTION OF INCOME AND WEALTH IN DEVELOPING COUNTRIES* (SOJ458J); 6 MONTHS \$53,150

TEXAS A & M UNIVERSITY

GREENHUT, M L; *A THEORETICAL AND EMPIRICAL INVESTIGATION OF SPATIAL PRICING AND MARKET SIZES AND SHAPES* (SOJ1175J); 12 MONTHS \$42,200

SAVING, T R; *THE MICRO FOUNDATIONS OF MONETARY THEORY* (SOJ189J); 24 MONTHS \$45,100

BASMAN, R L, BATTALIO, R C, AND KAGEL, J H; *INTERPRETATION SYSTEMS FOR EMPIRICAL ECONOMIC THEORIES* (SOJ205J); 12 MONTHS \$49,000

UNIV OF TEXAS AT AUSTIN

KENDRICK, DAVID; *STOCHASTIC CONTROL IN MACROECONOMIC MODELS* (SOJ227J); 19 MONTHS \$47,200

VIRGINIA

UNIVERSITY OF VIRGINIA

MCKEAN, ROLAND N; *IMPLICATIONS OF DIFFERENT RESOURCE RIGHTS* (SOJ1100 X00); 12 MONTHS \$38,500

MCKEAN, ROLAND N; *IMPLICATIONS OF DIFFERENT RESOURCE RIGHTS* (SOJ1100 X01); \$10,100

VIRGINIA POLYTECHNIC INSTITUTE

WEISELMAN, DAVID I; *STUDIES IN SHORT-TERM ECONOMIC FLUCTUATIONS* (SOJ148J); 15 MONTHS \$60,100

BUCHANAN, JAMES M, AND TULLOCK, GORDON; *ECONOMIC ANALYSIS OF ORDER AND DISORDER* (SOJ334 X00); 12 MONTHS \$43,000

WASHINGTON

UNIVERSITY OF WASHINGTON

CHEUNG, STEVEN N B; *THEORETICAL AND EMPIRICAL INVESTIGATIONS OF CONTRACTS* (SOJ008J); 24 MONTHS \$56,300

NORTH, DOUGLASS C, AND THOMAS, ROBERT P; *WESTERN ECONOMIC GROWTH, 1500-1850* (SOJ333J X00); 12 MONTHS \$32,700

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

BALDWIN, ROBERT E; *DETERMINANTS OF THE STRUCTURE OF INTERNATIONAL TRADE* (SOJ0715J); 24 MONTHS \$72,400

WILLIAMSON, JEFFREY O; *DOCTORAL DISSERTATION RESEARCH IN ECONOMICS* (SOJ0834J); 12 MONTHS \$900

ANDREANO, RALPH L; *CONFERENCE ON PROBLEMS IN ECONOMIC HISTORY* (SOJ1374J); 12 MONTHS \$1,900

STERN, JAMES L; *DOCTORAL DISSERTATION RESEARCH IN INDUSTRIAL RELATIONS* (SOJ1647J); 18 MONTHS \$5,300

BRITO, DAGOBERT L; *ECONOMIC MODELS OF DISARMAMENT* (SOJ1728J); 12 MONTHS \$12,400

HESTER, DONALD D; *DOCTORAL DISSERTATION RESEARCH IN ECONOMICS* (SOJ3398J); 12 MONTHS \$900

SOCIOLOGY

CALIFORNIA

STANFORD UNIVERSITY

INKELES, ALEX; *DOCTORAL DISSERTATION RESEARCH IN EDUCATION* (SOJ0345J); 12 MONTHS \$3,650

COHEN, ELIZABETH G; *DOCTORAL DISSERTATION RESEARCH IN EDUCATIONAL ADMINISTRATION* (SOJ1277J); 12 MONTHS \$1,150

MEYER, JOHN W, AND HANNAN, MICHAEL T; *INTERRELATIONSHIPS OF NATIONAL EDUCATION SYSTEMS WITH OTHER NATIONAL SOCIAL SYSTEMS* (SOJ3043J); 24 MONTHS \$122,070

ZELDITCH, MORRIS JR, AND HANNAN, MICHAEL T; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY* (SOJ1148J); 8 MONTHS \$2,900

BERGER, JOSEPH, AND ZELDITCH, MORRIS JR; *STATUS CHARACTERISTICS AND EXPECTATION STATES THEORY AND RESEARCH* (SOJ1182J); 18 MONTHS \$93,800

UNIVERSITY OF CALIFORNIA, BERKELEY

PAIGE, JEFFERY M; *AGRARIAN SOCIAL MOVEMENTS AND THE STRUCTURE OF AGRICULTURAL EXPORT SECTORS* (SOJ1853J); 24 MONTHS \$56,800

STINCHOMBE, ARTHUR L; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY* (SOJ224J); 9 MONTHS \$5,700

UNIVERSITY OF CALIFORNIA, LOS ANGELES

KUPER, LEO; *STUDIES ON SOCIAL DISORGANIZATION* (SO0316 001); 12 MONTHS \$15,700

LEVINE, GENE N; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY* (SOJ0248J); 12 MONTHS \$1,000

KUPER, LEO; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY* (SOJ0311J); 12 MONTHS \$3,800

UNIVERSITY OF SOUTHERN CALIFORNIA

BOOCCOCK, SARANE S; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY* (SOJ4887J); 12 MONTHS \$950

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UNIVERSITY OF COLORADO

ELLIOTT, DELBERT; *METHODOLOGICAL RESEARCH IN SOCIOLOGY* (SO02276 001); \$3,000

MAYER, THOMAS F; *SPECTRAL THEORY AND THE ANALYSIS OF SOCIAL CHANGE* (SOJ1913J); 24 MONTHS \$40,100

FLORIDA

FLORIDA ATLANTIC UNIVERSITY

TITTLE, CHARLES R, AND SCHWARTZ, MICHAEL; *SANCTIONS AND RULE BREAKING* (SOJ1744J); 24 MONTHS \$100,000

FLORIDA STATE UNIVERSITY

WELLER, ROBERT H; *IN-MIGRATION AND URBAN GROWTH* (SOJ0973J); 21 MONTHS \$8,700

ILLINOIS

DEPAUL UNIVERSITY

WILLIAMS, JUDITH A; *IDENTIFICATION WITH OTHERS AND SOCIAL MOBILITY* (SOJ1821J); 24 MONTHS \$37,100

NATIONAL OPINION RESEARCH CENTER

DAVIS, JAMES A; *A NATIONAL DATA PROGRAM FOR SOCIOLOGY* (SOJ1082 X00); 12 MONTHS \$13,800

KING, BENJAMIN; *MODIFICATION OF THE NATIONAL PROBABILITY SAMPLE* (SOJ2097J); 12 MONTHS \$158,000

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RADNOR, MICHAEL, AND ZALTMAN, GERALD; *TECHNOLOGY AND THE INSTITUTIONALIZATION OF SCIENCE* (S031983); 24 MONTHS \$114,000

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

LANTZ, HERMAN R; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY* (S033843); 12 MONTHS \$3,100

UNIVERSITY OF CHICAGO

CLARK, TERRY N; *COMPARATIVE STUDY OF COMMUNITY DECISION MAKING* (S008182 001); \$15,300

MCFARLAND, DAVID; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY* (S0303177); 12 MONTHS \$300

MEIER, PAUL, AND KRUSKAL, WILLIAM H; *STATISTICAL METHODOLOGY IN THE SOCIAL SCIENCES* (S041897 X00); 12 MONTHS \$78,500

PARISH, WILLIAM L JR, AND LEVINSOHN, FLORENCE; *FACTORS AFFECTING THE SELECTION OF ARTICLES FOR SCIENTIFIC JOURNALS* (S041873); 10 MONTHS \$2,800

SEWELL, WILLIAM H JR; *SOCIAL AND POLITICAL MODERNIZATION* (S041100); 24 MONTHS \$38,300

LIEBERSON, STANLEY; *COMPARATIVE STUDY OF MINORITIES SINCE 1880* (S043334P); 24 MONTHS \$112,900

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INDIANA UNIVERSITY, BLOOMINGTON

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BRANDEIS UNIVERSITY

DEMOS, JOHN; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY* (S043050); 12 MONTHS \$2,400

DEMOS, JOHN; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY* (S043051); 12 MONTHS \$1,700

HARVARD UNIVERSITY

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UNIVERSITY OF MICHIGAN

TILLY, CHARLES; *COLLECTIVE VIOLENCE IN LARGE-SCALE SOCIAL CHANGE* (S002874 002); 24 MONTHS \$89,700

TANNENBAUM, ARNOLD S; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY* (S030338); 12 MONTHS \$2,150

GAMSON, WILLIAM A; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY* (S031192); 11 MONTHS \$3,800

LAUMANN, EDWARD O; *A CROSS-NATIONAL STUDY OF SOCIAL NETWORKS AND COMMUNITY AND ORGANIZATIONAL STRATIFICATION* (S043008); 24 MONTHS \$72,200

FHRENKREUTZ, ANDREW S; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY* (S033114); 9 MONTHS \$4,200

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UNIVERSITY OF MISSISSIPPI

DEBORD, LARRY W; *THE EFFECTS OF SCHOOL MILIEUX ON ASPIRATIONS AND ACHIEVEMENTS OF PUPILS* (S041404 X00); 12 MONTHS \$22,700

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PRINCETON UNIVERSITY

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BLAU, PETER M; *COMPARATIVE ORGANIZATION RESEARCH PROGRAM* (S028848 X01); 12 MONTHS \$35,200

BLAU, PETER; *DOCTORAL DISSERTATION RESEARCH IN SOCIOLOGY* (S043171); 12 MONTHS \$1,400

MERTON, ROBERT K; *THE SOCIOLOGY OF SCIENCE* (S043333 X00*); 12 MONTHS \$96,400

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GRADUATE SCHOOL AND UNIVERSITY CENTER

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LAINO, JAMES D; *COALITIONS, BARGAINING AND PAYOFFS IN N-PERSON GAMES* (S032181); 24 MONTHS \$93,300

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SMITH, THOMAS E; *PARENTAL POWER AND INFLUENCE UPON ADOLESCENTS* (S030905 X00); 12 MONTHS \$56,100

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GALLE, OMER R; *CONTINUITIES IN INDUSTRIAL CONFLICT* (S033270); 12 MONTHS \$36,300

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FRESE, LEE; *CONDITIONS FOR INHIBITING STATUS GENERALIZATIONS* (S043690); 12 MONTHS \$21,500

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UNIVERSITY OF WISCONSIN, MADISON

KLATZKY, SHEILA R; *THE INSTITUTIONALIZATION OF TRUST* (S030378); 18 MONTHS \$51,700

HAOSTROM, WARREN O; *STUDIES IN THE SOCIOLOGY OF SCIENCE* (S043110 X00); 12 MONTHS \$41,100

SCHWARTZ, SHALOM; *DETERMINANTS OF PROSOCIAL BEHAVIOR* (S043411 X00); 12 MONTHS \$21,700

HISTORY AND PHILOSOPHY OF SCIENCE

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DOSKEY, JOHN S; *THE EUROPEAN JOURNALS OF THE GEOLOGIST, WILLIAM MACLURE* (S040743); 12 MONTHS \$12,100

UNIVERSITY OF CALIFORNIA, BERKELEY

MATES, BENSON; *LEIBNIZ AND THE HISTORY OF LOGIC* (S004817 002); 24 MONTHS \$19,300

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GHISELIN, MICHAEL T; *IMPACT OF DARWINISM ON COMPARATIVE ANATOMY* (S033411); 24 MONTHS \$17,100

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OLESON, ALEXANDRA; *CONFERENCE ON THE HISTORY OF AMERICAN SCIENTIFIC SOCIETIES* (S043343); 12 MONTHS \$15,800

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OHIO

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BELKIN, JOHANNA S, AND CALEY, EARLE R; *EARLY GERMAN MEDICAL AND CHEMICAL WORKS* (S029487 001); \$6,300

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FRANKLIN INSTITUTE

LEVITT, I M; *A SYMPOSIUM TO COMMEMORATE THE 100TH ANNIVERSARY OF THE BIRTH OF JOHANN KEPLER* (S040231); 12 MONTHS \$10,900

HILKER, EMERSON, AND SINCLAIR, BRUCE; *HISTORICAL RECORDS OF THE FRANKLIN INSTITUTE* (S043748); 12 MONTHS \$30,000

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JEFFREY, RICHARD C; *A THEORY OF PREFERENCE* (S003097 001); 12 MONTHS \$9,300

MCCORMMACH, RUSSELL K; *DOCTORAL DISSERTATION RESEARCH IN HISTORY OF SCIENCE* (S030888); 12 MONTHS \$1,300

MCCORMMACH, RUSSELL K; *A HISTORY OF THE PHYSICS DISCIPLINE 1700-1814* (S031077); 24 MONTHS \$36,700

UNIVERSITY OF PITTSBURGH

GRUNBAUM, ADOLF; *PHILOSOPHICAL PROBLEMS OF SPACE-TIME* (S003107 001); 12 MONTHS \$16,300

WASHINGTON

UNIVERSITY OF WASHINGTON

HANKINS, THOMAS L; *SIR WILLIAM ROWAN HAMILTON'S CONTRIBUTIONS TO SCIENCE* (S004701 002); 12 MONTHS \$5,000

MOFFETT, BENJAMIN C JR; *COMPLETION OF STUDY ON THE DUTCH ANATOMIST, LOUIS DE BILS (1681-1688)* (S030184); 12 MONTHS \$700

SLOAN, PHILLIP R; *COLLABORATIVE RESEARCH ON A HISTORY OF TAXONOMY* (S031788); 24 MONTHS \$5,200

WISCONSIN

MARQUETTE UNIVERSITY

ZUPKO, RONALD E; *EARLY ITALIAN AND FRENCH WEIGHTS AND MEASURES* (S033466); 6 MONTHS \$9,200

UNIVERSITY OF WISCONSIN, MADISON

DAUB, E E; *THE CLAUSIUS-TYNDALL CORRESPONDENCE* (S033443); 24 MONTHS \$13,400

SIEGFRIED, ROBERT; *BIOGRAPHY OF SIR HUMPHRY DAVY* (S034077); 12 MONTHS \$9,100

UNIVERSITY OF WISCONSIN, MILWAUKEE

HULL, DAVID L; *COLLABORATIVE RESEARCH ON A HISTORY OF TAXONOMY* (S032443); 24 MONTHS \$14,700

SPECIAL PROJECTS AND RESOURCES

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

THOMPSON, FREDERICK B; *THE IMPLEMENTATION OF AN ADVANCED COMPUTER SYSTEM FOR SOCIAL SCIENCE RESEARCH* (J031572*); 9 MONTHS \$25,000

CENTER FOR ADV STUDY IN THE BEHAVIORAL SCIENCE

CUTLER, PRESTON S; *SPECIAL PROGRAM OF RESEARCH SEMINARS AND CONFERENCES TO BE CONDUCTED BY THE MATHEMATICAL, SOCIAL SCIENCE BOARD* (S003734 001); 12 MONTHS \$222,000

CUTLER, PRESTON S; *ADVANCED STUDY AND RESEARCH IN SOCIAL SCIENCES* (S028712 X01); 12 MONTHS \$92,800

STANFORD UNIVERSITY

FERGUSON, CHARLES A, AND GREENBERG, JOSEPH H; *ARCHIVAL RESEARCH ON LANGUAGE UNIVERSALS* (S002841 001); 8 MONTHS \$20,700

CLARK, EVE V; *THE ACQUISITION OF SEMANTIC DISTINCTIONS IN CHILDREN'S SPEECH* (S040040); 30 MONTHS \$65,100

FERGUSON, CHARLES A; *COMPARATIVE RESEARCH ON THE ACQUISITION OF PHONOLOGY* (S030982); 24 MONTHS \$163,500

UNIVERSITY OF CALIFORNIA, BERKELEY

WANG, WILLIAM S-Y, AND OHALA, JOHN; *PROGRAM OF RESEARCH ON THE PROCESSES OF PHONOLOGICAL CHANGE* (S002386 001); 24 MONTHS \$250,600

APPLEYARD, DONALD, AND CRAIK, KENNETH; *ENVIRONMENTAL DISPOSITIONS AND THE SIMULATION OF ENVIRONMENTS* (S030984 X00*); 12 MONTHS \$360,020

SLOBIN, DAN I; *DOCTORAL DISSERTATION RESEARCH IN LINGUISTICS* (S031487); 12 MONTHS \$4,000

BALDERSTON, F E; *OPERATION OF A MANAGEMENT SCIENCE RESEARCH FACILITY* (S03138*); 12 MONTHS \$170,100

UNIVERSITY OF CALIFORNIA, LOS ANGELES

MARVICK, DWAIN; *AN 'ARCHIVAL TAPE VOLUME' APPROACH TO SOCIAL SCIENCE DATA DISSEMINATION* (S031851); 24 MONTHS \$11,600

CONNECTICUT

HUMAN RELATIONS AREA FILES

FORD, C S; *THIRD HRAF CONFERENCE ON CROSS-CULTURAL RESEARCH* (S031184); 12 MONTHS \$9,400

DISTRICT OF COLUMBIA

NONE; *OTHER PROGRAM AWARDS* (01AWDS); \$2,949

CENTER FOR APPLIED LINGUISTICS

ROBERTS, A HOOD; *CONFERENCE ON RESEARCH TRENDS IN COMPUTATIONAL LINGUISTICS* (S032388); 6 MONTHS \$17,000

GALLAUDET COLLEGE

STOKOE, WILLIAM C JR; *SEMANTICS AND GRAMMAR IN AMERICAN SIGN LANGUAGE* (S01148); 24 MONTHS \$73,700

MARYLAND

JOHNS HOPKINS UNIVERSITY

GARVEY, CATHERINE; *DISCOURSE ANALYSIS OF TWO-PERSON PROBLEM-SOLVING COMMUNICATION* (S031426); 18 MONTHS \$33,800

MASSACHUSETTS

HARVARD UNIVERSITY

KUNO, SUSUMU; *RESEARCH IN FORMAL LINGUISTICS* (S032864 X00); 12 MONTHS \$18,800

MICHIGAN

UNIVERSITY OF MICHIGAN

LAKOFF, GEORGE; *GENERATIVE SEMANTICS* (S00889 001); 24 MONTHS \$49,100

CLUBB, JEROME M, AND GREW, RAYMOND; *COMPARATIVE DATA ACQUISITION FOR THE INTER-UNIVERSITY CONSORTIUM FOR POLITICAL RESEARCH* (S030583); 12 MONTHS \$97,500

FRIEDMAN, JOYCE; *COMPUTER AIDS TO LINGUISTIC RESEARCH* (S031309); 24 MONTHS \$77,700

HOPFERBERT, RICHARD I, AND JENNINGS, M KENT; *ACQUISITION AND PROCESSING OF SURVEY DATA FOR THE INTER-UNIVERSITY CONSORTIUM FOR POLITICAL RESEARCH* (S031458); 24 MONTHS \$109,900

NEW JERSEY

INSTITUTE FOR ADVANCED STUDY

GEERTZ, CLIFFORD; *ADVANCED STUDY ON THE PROCESSES OF SOCIAL CHANGE* (S031730 X00); 12 MONTHS \$31,000

NEW YORK

CORNELL UNIVERSITY

KELLY, BURNHAM; *CROSS-NATIONAL STUDY OF THE SOCIAL ASPECTS INVOLVED IN INDUSTRIALIZED PRODUCTION APPROACHES TO HOUSING* (S030384); 24 MONTHS \$76,400

GRIMES, JOSEPH E; *COLLABORATIVE RESEARCH IN DEVELOPMENT OF A LINGUISTIC FIELD-DATA ARCHIVE* (S031893); 24 MONTHS \$28,600

NATIONAL BUREAU OF ECONOMIC RESEARCH

MEYER, JOHN, AND KUH, EDWIN; *RESEARCH CENTER FOR THE DEVELOPMENT OF COMPUTER TECHNOLOGY IN ECONOMICS AND MANAGEMENT SCIENCE* (J001134 X01); \$413,500

QUEENS COLLEGE

CAIRNS, CHARLES E; *THEORY OF PHONOLOGICAL AND PHONETIC UNIVERSALS* (S030047); 12 MONTHS \$7,000

OHIO

OHIO STATE UNIVERSITY

LEHISTE, ILSE; *LINGUISTIC UNITS AND BOUNDARIES* (S031494); 12 MONTHS \$24,300

OKLAHOMA

UNIVERSITY OF OKLAHOMA

MORRISON, JACK L, ANDREE, RICHARD V, AND SWEENEY, JAMES W; *COLLABORATIVE RESEARCH IN DEVELOPMENT OF A LINGUISTIC FIELD-DATA ARCHIVE* (S001405 001); 24 MONTHS \$127,100

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

ROSENTHAL, HOWARD L; *EMPIRICAL POLITICAL THEORY* (S002874 002); \$9,000

LEHIGH UNIVERSITY

RUBENSTEIN, HERBERT; *EXPERIMENTAL STUDIES OF LEXICAL MEMORY* (S032420 X00); 12 MONTHS \$28,700

REGIONAL SCIENCE RESEARCH INSTITUTE

STEVENS, BENJAMIN H; *USE, PERCEPTION, AND VALUE OF URBAN OPEN SPACE* (S032072); 24 MONTHS \$80,000

UNIVERSITY OF PENNSYLVANIA

BENSON, LEE; *COLLABORATIVE RESEARCH ON ARCHIVAL STUDIES OF VOTING BEHAVIOR* (S002878 001); \$4,700

HARRIS, ZELIG S, AND JOSHI, ARAVIND K; *AN ALGORITHM FOR A TRANSFORMATIONAL ANALYSIS OF ENGLISH SENTENCES* (S028859 001); 12 MONTHS \$24,900

TEXAS

UNIV OF TEXAS AT AUSTIN

LEHMANN, W P; *THEORETICAL INVESTIGATION OF DIACHRONIC SYNTAX* (S003081 001); 12 MONTHS \$37,300

PETERS, STANLEY; *THEORETICAL INVESTIGATION OF TRANSFORMATIONAL GRAMMAR* (S031144); 24 MONTHS \$47,700

GEOGRAPHY**CALIFORNIA**

UNIVERSITY OF CALIFORNIA, LOS ANGELES
BAUER, JONATHAN D; DOCTORAL DISSERTATION RESEARCH IN
GEOGRAPHY (S030440); 18 MONTHS \$1,350

COLORADO

UNIVERSITY OF COLORADO
WHITE, GILBERT F; COLLABORATIVE RESEARCH ON NATURAL
HAZARDS (S002888 X01); 18 MONTHS \$27,000

DISTRICT OF COLUMBIA

ASSOCIATION OF AMERICAN GEOGRAPHERS
NYSTROM, J WARREN; GEOGRAPHICAL STUDIES OF SELECTED
URBAN PROBLEMS (S032397); 24 MONTHS \$410,500

FLORIDA

UNIVERSITY OF FLORIDA
CRIST, RAYMOND E; DOCTORAL DISSERTATION RESEARCH IN GEOG-
RAPHY (S031559); 12 MONTHS \$750

ILLINOIS

NORTHWESTERN UNIVERSITY
DACEY, MICHAEL F; METHODS OF EMPIRICAL SPATIAL ANALYSIS
(S003987 001); 24 MONTHS \$89,900

UNIVERSITY OF CHICAGO
BERRY, BRIAN J L; DUALITY IN CHICAGO'S HOUSING MARKET
(S003588 X01); 12 MONTHS \$75,600

IOWA

UNIVERSITY OF IOWA
RUSHTON, GERARD; DOCTORAL DISSERTATION RESEARCH IN GEOG-
RAPHY (S031071); 12 MONTHS \$3,500

KANSAS

UNIVERSITY OF KANSAS
NUNLEY, ROBERT E; SPATIAL DISTRIBUTION COMPUTER FOR GEO-
GRAPHICAL ANALYSIS (S028859 X01); 12 MONTHS \$50,000

MASSACHUSETTS

CLARK UNIVERSITY
KATES, ROBERT W; COLLABORATIVE RESEARCH ON NATURAL
HAZARDS (S003184 001); \$7,500

MICHIGAN

UNIVERSITY OF MICHIGAN
WARNER, SAM BASS JR; DOCTORAL DISSERTATION RESEARCH IN
HISTORY (S030044); 16 MONTHS \$3,100
TOBLER, WALDO R; GEOGRAPHICAL PATTERNS OF INTERACTION
(S031070 X00); 12 MONTHS \$57,500

PENNSYLVANIA

UNIVERSITY OF PENNSYLVANIA
WOLPERT, JULIAN; CONFLICT OVER LOCATIONAL ISSUES (S002758
001); 24 MONTHS \$117,900
WOLPERT, JULIAN; CONFLICT OVER LOCATIONAL ISSUES (S002758
002); \$2,442

WASHINGTON

UNIVERSITY OF WASHINGTON
MORRILL, RICHARD L; EXPERIMENTAL DERIVATION OF THEORETI-
CAL SURFACES (S002853 001); 21 MONTHS \$34,200
THOMAS, MORGAN D; GROWTH POLES AND REGIONAL DEVELOP-
MENT (S027741 001); 24 MONTHS \$100,000

WISCONSIN

UNIVERSITY OF WISCONSIN, PARKSIDE
CAMPBELL, JOHN; STRUCTURE OF INDUSTRIAL RELATIONSHIPS IN
A GROWTH POLE CONTEXT (S030331); 24 MONTHS \$21,000

POLITICAL SCIENCE**CALIFORNIA**

STANFORD UNIVERSITY
MCALISTER, JOHN T JR; CASE STUDY OF THE PROCESS OF SOCIAL
CHANGE (S030343); 12 MONTHS \$30,700
GEORGE, ALEXANDER L; STUDY OF DETERRENCE THEORY (S030106);
15 MONTHS \$40,500
EULAU, HEINZ; DOCTORAL DISSERTATION RESEARCH IN POLITI-
CAL SCIENCE (S032821); 18 MONTHS \$3,700

UNIVERSITY OF CALIFORNIA, BERKELEY
WILDAVSKY, AARON; PROCESS MODELS OF EXPENDITURE PREDIC-
TION (S030380); 24 MONTHS \$45,500

COLORADO

UNIVERSITY OF DENVER
BAYLEY, DAVID H; COMPARATIVE ANALYSIS OF NATIONAL POLICE
SYSTEMS (S033057); 24 MONTHS \$13,400

CONNECTICUT

UNIVERSITY OF CONNECTICUT
KOGAN, NORMAN; DOCTORAL DISSERTATION RESEARCH IN POLITI-
CAL SCIENCE (S030153); 12 MONTHS \$1,950

WESLEYAN UNIVERSITY

GREENSTEIN, FRED I; COMPARATIVE STUDY OF POLITICAL ORien-
TATIONS (S030718); 12 MONTHS \$5,900

YALE UNIVERSITY

MAYHEW, DAVID R; VARIATION IN AGGREGATIVE CAPACITIES
AMONG PARTY SYSTEMS (S031849); 12 MONTHS \$8,300
BERNSTEIN, THOMAS P; EDUCATION AND MODERNIZATION IN
CHINA (S033378); 14 MONTHS \$9,500

DISTRICT OF COLUMBIA

JOHNS HOPKINS UNIVERSITY-SCHOOL OF ADVANCED
INTERNATIONAL STUDIES
CORSON, WALTER H; MEASUREMENT OF CONFLICT AND COOPERA-
TION (S031994); 12 MONTHS \$11,200

ILLINOIS

NORTHWESTERN UNIVERSITY
GURR, TED ROBERT; CAUSES OF CIVIL STRIFE (S030474); 24 MONTHS
\$24,800
GURR, TED R; CAUSES OF CIVIL STRIFE (S030474 001); \$400
JACOB, HERBERT; A COMPARATIVE STUDY OF THE DISPOSITION OF
FELONY CASES (S033985 X00*); 12 MONTHS \$60,400

UNIVERSITY OF CHICAGO

VERBA, SIDNEY; DOCTORAL DISSERTATION RESEARCH IN POLITI-
CAL SCIENCE (S031337); 24 MONTHS \$5,000

UNIVERSITY OF ILLINOIS AT URBANA

DAVIS, MORRIS; INTERNATIONAL RELIEF AS A POLITICAL PROCESS
(S031433); 24 MONTHS \$30,100

IOWA

BOYNTON, G R; OTHER PROGRAM AWARDS (01AWDS); 24 MONTHS
\$66,100

UNIVERSITY OF IOWA

KIM, CHONG L, AND GREEN, JUSTIN J; LEGISLATIVE RECRUITMENT
IN A ONE-PARTY STATE (S030474); 12 MONTHS \$15,500
BOYNTON, G R, AND LOEWENBERG, GERHARD; ANALYSIS OF GER-
MAN PUBLIC OPINION DATA (S030890); 12 MONTHS \$46,400
MCCRONE, DONALD J; DOCTORAL DISSERTATION RESEARCH IN
POLITICAL SCIENCE (S034718); 12 MONTHS \$2,550

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
BURNHAM, WALTER DEAN; A COLLABORATIVE INVESTIGATION OF
LONGITUDINAL DIMENSIONS OF AMERICAN ELECTORAL BEHAVIOR
(S030336); 24 MONTHS \$57,300
BERGER, SUZANNE; DOCTORAL DISSERTATION RESEARCH IN
POLITICAL SCIENCE (S032780); 16 MONTHS \$1,850
HIBBS, DOUGLAS A JR; COMPARATIVE STUDY OF CONFLICT (S033121);
18 MONTHS \$49,500

MICHIGAN

MICHIGAN STATE UNIVERSITY
GRIMES, ALAN P; DOCTORAL DISSERTATION RESEARCH IN POLITI-
CAL SCIENCE (S030882); 12 MONTHS \$1,050

UNIVERSITY OF MICHIGAN

ELDERSVELD, SAMUEL J; COMPARATIVE STUDY OF PUBLIC AD-
MINISTRATORS (S002902 X01); 12 MONTHS \$92,500
SINGER, J DAVID; CORRELATES OF INTERNATIONAL WAR (S028478
X01); 12 MONTHS \$50,800
LANGTON, KENNETH; DOCTORAL DISSERTATION RESEARCH IN
POLITICAL SCIENCE (S030876); 12 MONTHS \$5,200
JENNINGS, M KENT; THE DYNAMICS OF POLITICAL ORIENTATIONS
(S031820); 30 MONTHS \$155,400
PARK, RICHARD; DOCTORAL DISSERTATION RESEARCH IN POLITI-
CAL SCIENCE (S034387); 12 MONTHS \$1,400
PUTNAM, ROBERT D; REGIONAL GOVERNMENT IN ITALY (S033810); 12
MONTHS \$32,900

MILLER, WARREN E; *ELECTORAL BEHAVIOR AND THE MEANING OF POLITICS* (S031956-); 24 MONTHS \$100,000

MINNESOTA

UNIVERSITY OF MINNESOTA

BAILEY, FREDRIC N, AND HOLT, ROBERT T; *THE ANALYSIS OF COMPLEX SOCIAL SYSTEMS* (S002933 001); 24 MONTHS \$274,300

MISSOURI

WASHINGTON UNIVERSITY

SHEPSON, KENNETH A; *UNCERTAINTY, SOCIAL CHOICE, AND ELECTORAL COMPETITION* (S033054); 14 MONTHS \$21,200

NEW HAMPSHIRE

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

SCHULZ, ANN T; *DIRECTED POLITICAL CHANGE AND POLITICAL ATTITUDES* (S041181); 12 MONTHS \$4,000

NEW JERSEY

PRINCETON UNIVERSITY

BLACK, CYRIL E; *DOCTORAL DISSERTATION RESEARCH IN POLITICS* (S031158); 9 MONTHS \$1,700

NEW YORK

COLLEGE AT CORTLAND

LEON, DONALD E; *COLLABORATIVE RESEARCH ON PROFESSIONALIZATION* (S003724 001); 12 MONTHS \$7,400

COLUMBIA UNIVERSITY

EDINGER, LEWIS J; *ELITE SOCIALIZATION IN THE MODERN DEMOCRATIC STATE* (S028064 X01); 7 MONTHS \$10,900

OKSENBERG, MICHEL; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE* (S030081); 12 MONTHS \$3,300

ROTHMAN, DAVID J; *HISTORICAL ANALYSIS OF ELECTORAL PROCESSES* (S030277); 24 MONTHS \$11,300

STATE UNIVERSITY AT BUFFALO

NARDIN, TERRY; *CONCEPTUAL PROBLEMS IN THE THEORY OF VIOLENCE* (S043124); 12 MONTHS \$3,100

NORTH CAROLINA

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

SEARING, DONALD D; *COLLABORATIVE RESEARCH ON COMPARATIVE SOCIALIZATION* (S028090 X01); 8 MONTHS \$36,500

OREGON

UNIVERSITY OF OREGON - EUGENE

DAVIES, JAMES C; *DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE* (S029881 001); 12 MONTHS \$1,100

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

ROSENTHAL, HOWARD L; *METHODOLOGICAL DEVELOPMENTS IN EMPIRICAL POLITICAL SCIENCE* (S043734); 24 MONTHS \$70,000

TEXAS

UNIV OF TEXAS AT AUSTIN

FROHLICH, NORMAN, OPPENHEIMER, JOE A, AND YOUNG, ORAN R; *EXCHANGE THEORY OF POLITICS* (S033490); 24 MONTHS \$40,000

VERMONT

MIDDLEBURY COLLEGE

LENG, RUSSELL J; *CONFLICT BEHAVIOR AND INTERNATIONAL WAR* (S043120); 24 MONTHS \$33,500

OTHER SOCIAL SCIENCE PROGRAMS

ARIZONA

ARIZONA STATE UNIVERSITY

MORRIS, JOHN P; *REGULATORY IMPLICATIONS OF ORGANIZED RECREATIONAL ACTIVITY* (S043841); 15 MONTHS \$43,000

CALIFORNIA

CALIFORNIA STATE UNIVERSITY, SAN DIEGO

FEIERABEND, IVO K, FEIERABEND, ROSALIND L, AND NESVOLD, BETTY A; *SYSTEMIC CONDITIONS OF POLITICAL AGGRESSION* (S002458 002); 8 MONTHS \$24,700

STANFORD UNIVERSITY

MISCHEL, WALTER; *SOCIAL LEARNING AND COGNITIVE PROCESSES IN SELFREACTIONS* (S043882); 24 MONTHS \$19,900

FRIEDMAN, LAWRENCE M; *COMPARATIVE STUDY OF TRIAL COURTS* (S033821); 15 MONTHS \$43,600

UNIVERSITY OF CALIFORNIA, BERKELEY

SHANKS, J MERRILL; *DEVELOPMENT OF MODEL SOCIAL INDICATORS* (S031818); 24 MONTHS \$388,100

WOODSON, M I CHARLES E; *DOCTORAL DISSERTATION RESEARCH IN SOCIAL PSYCHOLOGY* (S043048); 4 MONTHS \$1,800

EISENBERG, MELVIN A; *NEGOTIATION AS RATIONAL DISPUTE RESOLUTION PROCESS* (S033888); 12 MONTHS \$46,100

UNIVERSITY OF CALIFORNIA, IRVINE

ROMNEY, A KIMBALL; *COLLABORATIVE RESEARCH ON UNIFORM MEASURES OF SOCIAL COMPETENCE* (S033049); 24 MONTHS \$25,400

UNIVERSITY OF CALIFORNIA, LOS ANGELES

KELLEY, HAROLD H; *INTERPERSONAL RELATIONS WITHIN THE FAMILY* (S033049 X00); 12 MONTHS \$49,100

KANOUSE, DAVID E; *ATTITUDINAL AND BEHAVIORAL EFFECTS OF INTERVIEWING* (S043251); 12 MONTHS \$17,000

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

EKMAN, PAUL; *THE FEASIBILITY OF STUDYING THE INTRODUCTION OF TELEVISION IN SOUTH AFRICA* (S043085); 8 MONTHS \$3,900

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

MCCLINTOCK, CHARLES G, AND MESSICK, DAVID M; *SOCIAL MOTIVATION AND INTERDEPENDENCE* (S003061 001); 18 MONTHS \$14,900

UNIVERSITY OF SOUTHERN CALIFORNIA

JOHNSON, EARL J; *SOCIAL-ECONOMIC IMPACT OF LEGAL PRACTICE AND ALTERNATIVE APPLICATIONS OF LEGAL SKILLS* (S043883); 18 MONTHS \$54,800

STONE, CHRISTOPHER D; *RELATIONSHIPS BETWEEN CORPORATE STRUCTURE AND EFFICACY OF LAWS* (S043886); 15 MONTHS \$71,500

COLORADO

UNIVERSITY OF DENVER

WALLACE, JAMES E; *RESEARCH WORKSHOP ON THE ROLE OF ETHICS IN THE LEGAL SYSTEM* (S043410); 9 MONTHS \$7,600

CONNECTICUT

UNIVERSITY OF CONNECTICUT

FARINA, AMERIGO; *EFFECTS OF DEVIANCE ON INTERACTION* (S041020 X00); 12 MONTHS \$24,300

YALE UNIVERSITY

JANIS, IRVING L, AND MILLER, JAMES C; *INFLUENCE OF DYADIC RELATIONSHIPS ON ADHERENCE TO STRESSFUL DECISIONS* (S040514 X00); 12 MONTHS \$46,600

DISTRICT OF COLUMBIA

AMERICAN SOCIETY OF INTERNATIONAL LAW

LEIVE, DAVID M; *LAW-RELATED RESEARCH ON THE INTERNATIONAL REGULATION OF SPECIALIZED ACTIVITIES* (S040041); 24 MONTHS \$176,100

AMERICAN UNIVERSITY

DIENES, C THOMAS, AND BURKE, D BARLOW; *PROCESSES FOR DISPUTE SETTLEMENT* (S040044); 18 MONTHS \$24,400

BUREAU OF SOCIAL SCIENCE RESEARCH INC

FLAX, MICHAEL J, AND GARN, HARVEY A; *KINOSTATISTICS FOR SOCIAL INDICATORS- AN EXPLORATORY STUDY* (S042913 001); 6 MONTHS \$34,100

GEORGE WASHINGTON UNIVERSITY

MORSS, E R; *CONFERENCE ON GOVERNMENT-SUPPORTED RESEARCH ON SOCIAL INDICATORS* (S040169); 12 MONTHS \$14,400

URBAN INSTITUTE

FLAX, MICHAEL, AND GARN, HARVEY; *SOCIAL AND URBAN INDICATORS* (S042910 X01); 12 MONTHS \$159,800

ORCUTT, GUY H; *COLLABORATIVE RESEARCH ON THE DISTRIBUTION OF INCOME AND WEALTH WITH MICROSIMULATION APPLICATIONS* (S044083); 12 MONTHS \$117,700

HAWAII

UNIVERSITY OF HAWAII

PITTS, FORREST R; *NATIONWIDE FACTORIAL URBAN ECOLOGY STUDY OF KOREA* (S040812); 24 MONTHS \$25,000

ILLINOIS

NORTHWESTERN UNIVERSITY

CAMPBELL, DONALD T; *MEASUREMENT AND EXPERIMENTATION IN SOCIAL SETTINGS* (S040273 X00); 12 MONTHS \$69,300

JACOB, HERBERT; *A COMPARATIVE STUDY OF THE DISPOSITION OF FELONY CASES* (S043965 X00); 12 MONTHS \$39,800

UNIVERSITY OF CHICAGO

DUNCAN, STARKEY; *STRUCTURAL STUDY OF FACE-TO-FACE COMMUNICATION* (S003034 001); 24 MONTHS \$64,500

KATZ, STANLEY N; *RESEARCH CONFERENCE ON LAW AND ECONOMIC DEVELOPMENT IN U.S.* (S043311); 6 MONTHS \$4,300

ZEISEL, HANS; ANALYSIS OF THE TRADITIONAL VOIR DIRE SYSTEM (S032884); 18 MONTHS \$59,800

UNIVERSITY OF ILLINOIS AT URBANA

OSGOOD, CHARLES E; COMPARATIVE PSYCHOLINGUISTICS (S000118 X00); 18 MONTHS \$54,200

DAVIS, JAMES H; INDIVIDUAL - GROUP PROBLEM SOLVING (S000747 001); 24 MONTHS \$56,700

DAVIS, JAMES H; INDIVIDUAL GROUP PROBLEM SOLVING (S000747 002); \$19,800

HUNT, J MCVICKER; DOCTORAL DISSERTATION RESEARCH IN PSYCHOLOGY (S041884); 18 MONTHS \$1,700

HULIN, CHARLES L; EFFECTS OF ORGANIZATIONAL AND INDIVIDUAL VARIABLES ON ATTITUDE AND BEHAVIOR (S038086); 24 MONTHS \$43,700

INDIANA

PURDUE UNIVERSITY

BYRNE, DONN; A REINFORCEMENT MODEL OF INTERPERSONAL ATTRACTION-EXTENSIONS AND APPLICATIONS (S000758 001); 24 MONTHS \$71,600

KANSAS

KANSAS STATE UNIVERSITY

PHARES, E JERRY; LOCUS OF CONTROL AND RESPONSIBILITY AT-TRIBUTION (S032243 X00); 18 MONTHS \$21,000

UNIVERSITY OF KANSAS

KIESLER, CHARLES A; COMMITMENT AND ATTITUDE CHANGE (S-002728 X01); 12 MONTHS \$43,300

MARYLAND

JOHNS HOPKINS UNIVERSITY

GARVEY, WILLIAM D; DOCTORAL DISSERTATION RESEARCH IN SO-CIAL PSYCHOLOGY (S030091); 12 MONTHS \$4,000

AINSWORTH, MARY D; DOCTORAL DISSERTATION RESEARCH IN SO-CIAL PSYCHOLOGY (S031012); 12 MONTHS \$7,450

UNIVERSITY OF MARYLAND, COLLEGE PARK

OLSON, MANCUR; ROLE OF SOCIAL INDICATORS IN THE EVALUA-TION OF SOCIAL PERFORMANCE. SOME PROBLEMS OF NONMARKET ECONOMICS (S031454); 9 MONTHS \$18,300

MASSACHUSETTS

BRANDEIS UNIVERSITY

FREEMAN, HOWARD E; COLLABORATIVE RESEARCH ON UNIFORM MEASURES OF SOCIAL COMPETENCE (S033047); 24 MONTHS \$76,400

SCHNEIDER, DAVID J; DISPOSITIONAL ASPECTS OF IMPLICIT PER-SONALITY THEORY (S033818); 12 MONTHS \$20,500

COUNCIL ON LAW-RELATED STUDIES

CAVERS, DAVID F; SURVEY OF LEGAL RESEARCH METHODS (S032178); 6 MONTHS \$1,500

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ROSENTHAL, ROBERT; UNINTENTIONAL INFLUENCE IN DYADIC IN-TERACTION (S028841 X01); 12 MONTHS \$50,300

MCLELLAND, DAVID C; DOCTORAL DISSERTATION RESEARCH IN PSYCHOLOGY (S030381); 12 MONTHS \$1,150

MCLELLAND, DAVID C; EMPIRICAL DEFINITION OF THE POWER AND AFFILIATION MOTIVATION SYNDROMES (S031911 X00); 12 MONTHS \$41,900

KAGAN, JEROME; COLLABORATIVE RESEARCH ON UNIFORM MEA-SURES OF SOCIAL COMPETENCE (S033048); 24 MONTHS \$19,300

UNIVERSITY OF MASSACHUSETTS, AMHERST

BERGER, SEYMOUR M; SOCIAL LEARNING THROUGH OBSERVATION (S000748 002); 24 MONTHS \$27,600

LEVINGER, GEORGE; DEVELOPMENT AND MAINTENANCE OF PAIR RELATIONSHIPS (S033611); 27 MONTHS \$69,500

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HOPE COLLEGE

MYERS, DAVID G; DIFFERENTIAL RESPONSES TO GROUP DISCUS-SION (S002891 001); 24 MONTHS \$30,100

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VEROFF, JOSEPH; DOCTORAL DISSERTATION RESEARCH IN SOCIAL PSYCHOLOGY (S031493); 12 MONTHS \$1,400

MCKEACHIE, WILBERT J; LEADER RESPONSES TO MEMBER HOSTILITY (S033054); 18 MONTHS \$70,000

MILLER, WARREN E; ELECTORAL BEHAVIOR AND THE MEANING OF POLITICS (S033557); 24 MONTHS \$100,000

RIEDEL, KLAUS; DOCTORAL DISSERTATION RESEARCH IN PSYCHOLINGUISTICS (S034811); 19 MONTHS \$4,700

WAYNE STATE UNIVERSITY

KAPLAN, KALMAN J, AND FIRESTONE, IRA J; ATTITUDES, DISTANCE, ETHNICITY AND INTER-NEIGHBORHOOD CONTACT (S002832 001); 24 MONTHS \$81,800

LEVENTHAL, GERALD B; MODES OF RESPONSE TO INEQUITY (S003171 001); 24 MONTHS \$77,600

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UNIVERSITY OF MINNESOTA

LEVY, ROBERT J; CUSTODY INVESTIGATIONS IN DIVORCE CASES (S032888); 18 MONTHS \$24,900

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UNIVERSITY OF MISSOURI, COLUMBIA

GEEN, RUSSELL G; COGNITIVE PROCESSES IN HUMAN AGGRESSION (S000748 001); 24 MONTHS \$46,500

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RUTGERS UNIVERSITY

ROSENBERG, SEYMOUR, AND COHEN, BERTRAM D; VERBAL BEHAVIOR AS INTERPERSONAL COMMUNICATION (S000544 X01); 12 MONTHS \$35,400

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CITY COLLEGE

GOULD, LAURENCE; DOCTORAL DISSERTATION RESEARCH IN PSYCHOLOGY (S030038); 12 MONTHS \$1,500

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BARTON, ALLEN H; ANALYSIS OF MAJOR FACTORS IN TRIAL JURY DECISION-MAKING (S033884); 12 MONTHS \$45,800

CORNELL UNIVERSITY

WEICK, KARL E; GROUP FORMATION AND DEVELOPMENT (S033817); 24 MONTHS \$53,700

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JUSTER, F THOMAS; A PILOT STUDY ON THE MEASUREMENT OF ECONOMIC AND SOCIAL PERFORMANCE (S033530 X00); 12 MONTHS \$30,600

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SECORD, PAUL F; THEORY AND PARADIGMS FOR NON-LABORATORY RESEARCH (S034439); 12 MONTHS \$2,300

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SHELDON, ELEANOR B; CENTER FOR THE COORDINATION OF RESEARCH ON SOCIAL INDICATORS (S034219); 12 MONTHS \$185,500

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GALANTER, MARC; DEPLOYMENT PROCESS IN THE IMPLEMENTA-TION OF LEGAL POLICY (S033881); 24 MONTHS \$75,400

LOCHNER, PHILIP R JR; THE ROLE OF THE COGNITIVE PROCESS IN DETERMINING THE DEMAND FOR LEGAL SERVICES (S033887); 15 MONTHS \$44,300

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TEACHERS COLLEGE

DEUTSCH, MORTON; ELEMENTS OF CONFLICT RESOLUTION (S000117 X02); 12 MONTHS \$45,000

BEYER, THOMAS G; DOCTORAL DISSERTATION RESEARCH IN SO-CIAL PSYCHOLOGY (S032778); 12 MONTHS \$500

UNIVERSITY OF ROCHESTER

IKER, HOWARD P; THE RECOGNITION AND ANALYSIS OF CONTENT BY COMPUTER (S032841 *); 24 MONTHS \$71,700

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DUKE UNIVERSITY

JONES, EDWARD E; PERSON PERCEPTION AND SELF-PRESENTA-TION (S028422 X01); 12 MONTHS \$35,100

BACK, KURT W; SOCIAL INDICATORS FOR SELF REALIZATION (S032446); 12 MONTHS \$47,500

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WALKER, W L, AND THIBAUT, JOHN W; HUMAN BEHAVIOR AND THE LEGAL PROCESS (S028330 X01); 12 MONTHS \$39,000

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FELS RESEARCH INSTITUTE

PARKE, ROSS D; DETERMINANTS OF SELF-CONTROL AND AGGRES-SION IN CHILDREN (S031883 X00); 12 MONTHS \$49,300

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HAKEL, MILTON D; INTERPERSONAL PERCEPTION AND BEHAVIOR PREDICTION (S000355 001); 24 MONTHS \$74,800

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 LUNDGREN, DAVID C; *DEVELOPMENT STAGES IN HUMAN RELATIONS TRAINING GROUPS* (SO31779); 24 MONTHS \$43,800

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PENNSYLVANIA STATE UNIVERSITY
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 GERGEN, KENNETH J; *THE EFFECTS OF AID ON RECIPIENT ATTITUDES* (SO31001 X00); 12 MONTHS \$48,400

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 THOMPSON, JAMES D, AND BATES, FREDERICK L; *LIFE CYCLE AND THE ENVIRONMENTAL CONTEXT* (SO31113); 24 MONTHS \$76,800

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 ARONSON, ELLIOT; *ANTECEDENTS OF INTERPERSONAL ATTRACTION* (SO31111 001); \$1,800

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LINEBERRY, ROBERT L; *SOCIOSPATIAL DISTRIBUTION OF URBAN PUBLIC POLICIES* (SO31130); 12 MONTHS \$16,200

GLASS, DAVID C; *COLLABORATIVE RESEARCH ON SOCIAL PSYCHOLOGICAL REACTIONS TO STRESS* (SO31119); 12 MONTHS \$38,800

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UNIVERSITY OF VERMONT
 LEFF, HERBERT L, AND GORDON, LAWRENCE R; *CREATIVE PERCEPTION AND ENVIRONMENTAL AWARENESS* (SO31117); 12 MONTHS \$10,800

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 HAGE, JERALD, AND GARGAN, EDWARD; *COMPARATIVE STUDY OF SOCIETAL STABILITY* (SO30811 X00); 12 MONTHS \$30,700

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LEVENTHAL, HOWARD; *THE CONTROL OF EMOTIONAL AND INSTRUMENTAL ACTS THROUGH INFORMATION AND SELF OBSERVATION* (SO31150 X00); 12 MONTHS \$52,200

ALFORD, ROBERT R; *THEORETICAL INVESTIGATION OF THE REQUIREMENTS FOR INDICATORS OF STRUCTURE AND CHANGE IN THE POLITICAL ECONOMY OF WESTERN SOCIETIES* (SO31193); 12 MONTHS \$16,200

PILIAVIN, JANE A, AND PILIAVIN, IRVING M; *BYSTANDER BEHAVIOR IN EMERGENCIES* (SO31113); 24 MONTHS \$90,500

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 ASKEW, WILLIAM C; *HYDROGEN FLAME IONIZATION DETECTION OF INERTS* (K031514); 12 MONTHS \$18,100

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ARIZONA STATE UNIVERSITY
 KUESTER, JAMES L; *RESEARCH INITIATION - MOLECULAR WEIGHT DISTRIBUTION CONTROL IN A CONTINUOUS STIRRED TANK POLYMERIZATION REACTOR* (K031510); 18 MONTHS \$16,000

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 KATZER, JAMES R, AND MANOGUE, WILLIAM H; *EFFECT OF CRYSTALLITE SIZE ON CATALYST SELECTIVITY* (K031111 X00); 12 MONTHS \$20,700

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 GRENGA, HELEN E; *CHEMISORPTION AND CATALYSIS - CARBON MONOXIDE ON METALS AND ALLOYS* (K031117); 24 MONTHS \$39,000

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 JACKSON, MELBOURNE L; *DESORPTION OF SUPERSATURATED GASES FROM WATER* (K031173); 18 MONTHS \$16,100
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 HAENSEL, VLADIMIR; *V INTERNATIONAL CONGRESS ON CATALYSIS* (K031103); 12 MONTHS \$5,000

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 CARR, STEPHEN H; *RESEARCH INITIATION - MICROBIAL DEGRADATION OF AMYLOSE-BASED FILMS* (K031713); 18 MONTHS \$16,000

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SCHMITZ, ROGER A; *MULTIPLE STATES AND INSTABILITIES IN CHEMICALLY REACTING SYSTEMS* (K003173 001); 24 MONTHS \$64,000

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AMUNDSON, NEAL R; *ANALYSIS OF COUPLED SYSTEMS II* (K020107 X01); 14 MONTHS \$36,700

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PRINCETON UNIVERSITY

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KLAUS, E ERWIN, AND DUDA, JOHN L; *FLOW RATE MEASUREMENT IN ELASTROHYDRODYNAMIC LUBRICATION* (K035059); 12 MONTHS \$19,200

UNIVERSITY OF PENNSYLVANIA

PERLMUTTER, DANIEL D; *STABILITY OF TUBULAR RECYCLE REACTORS WITH SIGNIFICANT AXIAL OR TRANSVERSE TRANSPORT EFFECTS* (K010863 001); 6 MONTHS \$6,000

MYERS, ALAN L; *ADSORPTION AT THE LIQUID-SOLID INTERFACE* (K011758 001); 3 MONTHS \$7,700

QUINN, J A; *STUDIES ON DIFFUSION, FLOW, AND TRANSPORT THROUGH MODEL MEMBRANES* (K031117); 24 MONTHS \$26,500

CARNEGIE-MELLON UNIVERSITY-CARNEGIE INSTITUTE OF TECHNOLOGY

DENT, ANTHONY L; *RESEARCH INITIATION - INFRARED STUDIES IN A FLUIDIZED BED* (K031883); 18 MONTHS \$16,000

RHODE ISLAND

BROWN UNIVERSITY

KESTIN, JOSEPH; *TRANSPORT PROPERTIES OF GASES* (K001113 X00); 12 MONTHS \$63,800

MASON, EDWARD A; *TRANSPORT THEORY FOR AEROSOLS AND FOR MEMBRANES* (K030821); 12 MONTHS \$19,800

UNIVERSITY OF RHODE ISLAND

KNICKLE, HAROLD N; *MULTISOLVENT EXTRACTION OF FISH PROTEIN* (K031511); 24 MONTHS \$36,450

SOUTH CAROLINA

CLEMSON UNIVERSITY

BARLAGE, WILLIAM B; *THE EFFECT OF IONIC CONDITIONS ON GAS ABSORPTION IN VARIOUS SOLUTIONS OF SURFACE-ACTIVE AGENTS* (K031534 X00); 12 MONTHS \$16,700

TENNESSEE

UNIVERSITY OF TENNESSEE, KNOXVILLE

JURY, STANLEY H; *THERMAL AND ORDINARY DIFFUSIVITY OF CERTAIN ADSORBENT SOLIDS* (K031078); 24 MONTHS \$61,700

TEXAS

RICE UNIVERSITY

KOBAYASHI, RIKI; *EXPERIMENTAL AND THEORETICAL STUDIES OF THERMODYNAMIC AND TRANSPORT PROPERTIES* (K031426 X00); 12 MONTHS \$82,100

UNIV OF TEXAS AT AUSTIN

HIMMELBLAU, DAVID M; *STOCHASTIC EFFECTS IN THE PROCESS MODELING OF BIOLOGICAL WASTE TREATMENT* (K031480); 24 MONTHS \$31,500

UNIVERSITY OF HOUSTON

DUKLER, ABRAHAM E; *MASS TRANSFER OF THE DISPERSED PHASE IN TWO-PHASE FLOW* (K031434 X00); 12 MONTHS \$40,100

HENLEY, ERNEST J; *CONFERENCE ON RESEARCH NEEDS AND PRIORITIES IN PROCESS DESIGN AND SIMULATION* (K031441); 6 MONTHS \$2,600

HENLEY, ERNEST J; *ANALYSIS AND DESIGN OF PROCESS RELIABILITY* (K031441); 12 MONTHS \$19,000

FLUMERFELT, R W; *EXTENSIONAL FLOW PHENOMENA IN POLYMER SOLUTIONS AND MELTS* (K031416); 24 MONTHS \$54,600

VIRGINIA

UNIVERSITY OF VIRGINIA

GAINER, JOHN L; *DIFFUSION IN MIXED POLYMER SOLUTIONS* (K031337); 12 MONTHS \$31,600

KIRWAN, DONALD J; *NON-EQUILIBRIUM IMPURITY DISTRIBUTION DURING CRYSTALLIZATION FROM THE MELT* (K031351); 12 MONTHS \$18,900

VIRGINIA POLYTECHNIC INSTITUTE

MCGEE, HENRY A JR; *INORGANIC POLYMERS FROM AMINOBORANE* (K031511); 12 MONTHS \$20,700

WASHINGTON

UNIVERSITY OF WASHINGTON

MOULTON, RALPH W; *CRITICAL FLOW FOR STEAM-WATER MIXTURES* (K003816 001); 24 MONTHS \$44,200

FINLAYSON, BRUCE A; *FUNDAMENTAL RESEARCH IN FLUID MECHANICS* (K011517 001); 24 MONTHS \$63,900

BECK, THEODORE R; *MEASUREMENT AND INTERPRETATION OF SURFACE STRESS OF SOLID METAL ELECTRODES* (K033933); 12 MONTHS \$23,400

HEIDEGER, WILLIAM J; *DISPERSED PHASE MASS TRANSFER* (K031435 X00); 12 MONTHS \$30,700

WEST VIRGINIA

ARCADIA INSTITUTE FOR SCIENTIFIC RESEARCH INC

DOOLITTLE, ARTHUR K; *VOLUME-ENTROPY-ENERGY EQUATION OF STATE FOR LIQUIDS* (K031510); 12 MONTHS \$15,000

WISCONSIN

MARQUETTE UNIVERSITY

CARTER, JOHN L; *RESEARCH INITIATION - CHEMICAL-BIOLOGICAL TREATMENT PLANT FOR OPTIMUM PHOSPHORUS AND BOD REMOVAL* (K032673); 18 MONTHS \$16,000

UNIVERSITY OF WISCONSIN, MADISON

BIRD, R BYRON; *MACROMOLECULAR HYDRODYNAMICS* (K021145); 24 MONTHS \$118,200

LIGHTFOOT, E N; *BIOLOGICALLY ORIENTED MASS TRANSFER STUDIES* (K033916 X00); 12 MONTHS \$27,700

ENGINEERING ENERGETICS

ALABAMA

TUSKEGEE INSTITUTE

DILLON, IRA O; DENSITIES OF ALKALI METALS BY A GAMMA RADIATION ATTENUATION TECHNIQUE (K038868); 12 MONTHS \$48,700

ARIZONA

ARIZONA STATE UNIVERSITY

EVANS, DONOVAN L; ARC HEATED PLASMA (K004588 001); \$320

UNIVERSITY OF ARIZONA

FARR, W MORRIS; MICROINSTABILITIES IN INHOMOGENEOUS PLASMA (K031450); 18 MONTHS \$20,000

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

SABERSKY, R H; HEAT TRANSFER TO GRANULAR MEDIA (K030584); 12 MONTHS \$14,700

STANFORD UNIVERSITY

KINO, GORDON S; STUDIES OF ACOUSTIC WAVE PHENOMENA (K014433); 24 MONTHS \$83,900

PANTELL, RICHARD H, AND PUTHOFF, HAROLD E; A METHOD FOR OBTAINING HIGH-POWER BROADLY-TUNABLE LASER ACTION IN THE ULTRAVIOLET PART OF THE SPECTRUM (K031907); 24 MONTHS \$68,900

SIEGMAN, A E; ULTRA-SHORT LIGHT PULSE GENERATION AND OPTICAL PARAMETRIC OSCILLATOR MODE-LOCKING (K034371 X00); 12 MONTHS \$58,900

BUNEMAN, OSCAR; STABLE ONE-Dimensionally CONFINED PLASMA CONFIGURATIONS (K038945); 12 MONTHS \$33,400

CRAWFORD, F W; NONLINEAR WAVE INTERACTION EFFECTS IN PLASMAS (K031788 X00); 12 MONTHS \$58,900

STD RESEARCH CORPORATION

DEMETRIADES, S T, AND ACGYROPOULOS, G S; NUMERICAL SOLUTIONS OF THE COUPLED THREE-DIMENSIONAL MAGNETOHYDRODYNAMIC CHANNEL PROBLEM (C717000); 12 MONTHS \$74,903

UNIVERSITY OF CALIFORNIA, BERKELEY

TIEN, CHANG L; HEAT TRANSFER THROUGH CRYOGENIC MULTILAYER INSULATIONS (K030557); 24 MONTHS \$47,500

UNIVERSITY OF CALIFORNIA, IRVINE

GAMO, HIDEYA; STATISTICAL ANALYSIS OF LASER RADIATION BY INTENSITY CORRELATION EXPERIMENTS (K031856); 24 MONTHS \$63,700

UNIVERSITY OF CALIFORNIA, LOS ANGELES

WAZZAN, A R; SPATIAL STABILITY AND TRANSITION OF INCOMPRESSIBLE LAMINAR BOUNDARY LAYERS WITH HEAT TRANSFER (K043090); 12 MONTHS \$21,700

KNUTH, ELTON L; RESEARCH IN MOLECULE-SURFACE COLLISIONS WITH TRANSLATIONAL ENERGIES UP TO TWENTY ELECTRON VOLTS (K030506); 24 MONTHS \$58,900

CASPERSON, LEE W; RESEARCH INITIATION - FREQUENCY STABILITY AND OUTPUT POWER OF HIGH GAIN LASERS (K032627); 18 MONTHS \$18,900

JASSBY, DANIEL L; RESEARCH INITIATION - ABSORPTION OF LASER ENERGY IN DENSE PLASMAS (K032628); 18 MONTHS \$16,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

MILLER, DAVID R; APPLICATION OF FREE-JET SOURCES TO REACTIVE CROSSED MOLECULAR BEAM EXPERIMENTS (K034996); 12 MONTHS \$28,000

COLORADO

COLORADO SCHOOL OF MINES

DICKSON, PHILIP F; COLD WEATHER PAVING (K033940); 24 MONTHS \$48,100

STERMOLE, F J, AND GOLDEN, JOHN O; PHASE CHANGE THERMAL CONTROL TECHNOLOGY (K031381); 12 MONTHS \$19,600

COLORADO STATE UNIVERSITY

CHAN, P W; EXPERIMENTAL INVESTIGATIONS AT THE PLASMA-SOLID INTERFACE USING LIGHT SCATTERING TECHNIQUES (K032173); 12 MONTHS \$28,700

CONNECTICUT

YALE UNIVERSITY

FENN, JOHN B, AND ANDERSON, JAMES B; STUDIES OF MOLECULAR COLLISION PROCESSES (K035883 001); 12 MONTHS \$71,200

CHANG, RICHARD K; DISPERSION OF THE OPTICAL NONLINEAR SUSCEPTIBILITY OVER A WIDE WAVELENGTH RANGE (K031780); 24 MONTHS \$32,800

BURROW, PAUL D; THE STUDY OF VIBRATIONALLY EXCITED MOLECULES BY SUPERELASTIC ELECTRON SCATTERING (K035001); 24 MONTHS \$49,600

RENSSELAER POLYTECHNIC INSTITUTE-RENSSELAER POLYTECHNIC INSTITUTE OF CONN

HODOBS, JAMES L; RESEARCH INITIATION-THE EFFECT OF EXHAUST GAS RECIRCULATION ON SPARK IGNITION ENGINE KNOCK (K038470); 18 MONTHS \$16,000

DISTRICT OF COLUMBIA

CATHOLIC UNIVERSITY OF AMERICA

DEUTSCH, ROBERT W, AND BACHARACH, STEPHEN L; EXPERIMENTAL AND THEORETICAL INVESTIGATION OF NUCLEAR FISSION INDUCED BY LOW-ENERGY PARTICLES (K034437); 12 MONTHS \$34,000

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

ZUBER, NOVAK, AND ISHII, MAMORU; THERMALLY INDUCED FLOW OSCILLATIONS IN TWO PHASE SYSTEMS IN THERMAL EQUILIBRIUM (K018023 001); 12 MONTHS \$46,900

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UNIVERSITY OF HAWAII

FAND, RICHARD M; SIMULTANEOUS BOILING AND CONVECTION HEAT TRANSFER FROM BODIES WITH BOUNDARY LAYER SEPARATION (K014516 001); 9 MONTHS \$9,000

ILLINOIS

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

CUTTING, JOHN C; RESEARCH INITIATION-AXIAL CURRENT LEAKAGE IN COMBUSTION DRIVEN SEGMENTED MHD GENERATORS (K038658); 18 MONTHS \$18,000

UNIVERSITY OF ILLINOIS AT URBANA

COLEMAN, PAUL D; CO AND TRIATOMIC CHEMICAL LASER SYSTEMS (K004351 001); 24 MONTHS \$64,000

CHILTON, ARTHUR B, AND AXFORD, ROY A; APPLICATION OF PARALLEL-ARRAY COMPUTERS TO RADIATION TRANSPORT CALCULATIONS (K031030 001); 12 MONTHS \$22,800

GOLDSTEIN, L, AND MERKELO, H; NEAR-RESONANT QUANTUM INTERACTIONS OF COHERENT LASER RADIATION WITH GASEOUS PLASMA CONSTITUENTS (K037739 001); 12 MONTHS \$39,900

MILEY, GEORGE H, AND JONES, BARCLAY G; EXPERIMENTAL STUDIES OF COUPLED NUCLEAR REACTORS (K033174); 12 MONTHS \$34,400

INDIANA

PURDUE UNIVERSITY

TAYLOR, R E; EVALUATION OF THE FLASH DIFFUSIVITY METHOD FOR HIGH TEMPERATURE MEASUREMENTS (K038347); 24 MONTHS \$62,900

VISKANTA, RAYMOND; THERMAL REMOTE SENSING OF SEMITRANS-PARENT CONDENSED PHASES (K038373 X00); 12 MONTHS \$30,800

UNIVERSITY OF NOTRE DAME

LLOYD, JOHN R; RESEARCH INITIATION-LAMINAR, TRANSITION, AND TURBULENT NATURAL CONVECTION ADJACENT TO DOWNWARD-FACING INCLINED SURFACES (K032658); 18 MONTHS \$18,000

MORRIS, EDGAR E; RESEARCH INITIATION-NEUTRON PENETRATION IN SODIUM (K038873); 18 MONTHS \$19,500

KENTUCKY

UNIVERSITY OF KENTUCKY

REUCROFT, P J; CHARACTERIZATION OF FACTORS INFLUENCING ENERGY STORAGE, CONVERSION AND DETECTION PROCESSES IN ORGANIC SOLIDS (K038134); 12 MONTHS \$23,900

CREMERS, CLIFFORD J; STUDY OF ENERGY TRANSFER IN ELECTRIC ARC SYSTEMS (K031433); 24 MONTHS \$66,900

EICHHORN, ROGER, AND LIENHARD, JOHN H; HEAT REMOVAL MECHANISMS AND THE NATURE OF PLUMES IN STRATIFIED FLUIDS (K032938); 12 MONTHS \$36,500

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SMULLIN, LOUIS D, LIDSKY, LAWRENCE M, AND BERS, ABRAHAM; PLASMA DYNAMICS (K038888 X01); 12 MONTHS \$312,000

MIKIC, BORIVOJE; STUDY OF EFFECTS OF PRESENCE OF NON-CONDENSABLE GASES ON HEAT TRANSFER COEFFICIENT IN DROPWISE CONDENSATION (K032138); 24 MONTHS \$50,700

HARLEMAN, DONALD R F; ENGINEERING ASPECTS OF HEAT DISPOSAL (K032178); 12 MONTHS \$33,000

GEORGE, E VICTOR, AND HOFF, PAUL W; ANOMALOUS HEATING OF PLASMAS BY INTERFERING CO₂ LASER IRRADIATION (K038845); 12 MONTHS \$56,900

NORTHEASTERN UNIVERSITY

BOWMAN, H FREDERICK; TRANSIENT BOILING PHENOMENA AND ITS RELATIONSHIP TO HEATER SURFACE PROPERTIES IN POOL-BOILING CRYOGENIC LIQUIDS (K031111); 24 MONTHS \$44,900

UNIVERSITY OF MASSACHUSETTS, AMHERST

TANG, TING-WEI; *STUDY OF NONLINEAR ELECTROMAGNETIC WAVE INTERACTIONS IN AN INHOMOGENEOUS MAGNETOPLASMA* (K018114 001); 6 MONTHS \$5,000

HORVAY, GABRIEL, AND ZINSMEISTER, GEORGE E; *TRANSIENT HEAT CONDUCTION IN COMPOSITES* (K033141); 12 MONTHS \$29,200

WILLIAMS COLLEGE

BROWN, FIELDING; *FAR-INFRARED LASERS* (K041181); 12 MONTHS \$48,900

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UNIVERSITY OF MICHIGAN

KING, JOHN S; *NEUTRON INELASTIC SCATTERING IN SOLIDS* (K012191 001); 24 MONTHS \$58,800

HAMMITT, FREDERICK G; *BUBBLE NUCLEATION, GROWTH AND COLLAPSE PHENOMENA* (K012081 001); 24 MONTHS \$60,100

GETTY, W D, AND ROWE, J E; *INVESTIGATIONS OF PLASMA HEATING VIA BEAM-PLASMA INTERACTIONS* (K018681 001); 12 MONTHS \$50,400

DUDERSTADT, JAMES J, OSBORN, RICHARD K, AND AKASU, A Z; *THEORETICAL STUDIES OF RADIATION SCATTERING FROM DENSE, MANY PARTICLE SYSTEMS* (K013861 X01); 12 MONTHS \$29,700

SPRINGER, GEORGE S; *INTERFACIAL PHENOMENA DURING LIQUID METAL-VAPOR PHASE CHANGE* (K031197); 12 MONTHS \$32,200

YANG, WEN-JEI, AND CLARK, JOHN A; *AN UNCONVENTIONAL LIQUID SPRAY HEAT EXCHANGER FOR RANKINE CYCLE POWER PLANT APPLICATION* (K033111); 12 MONTHS \$34,000

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UNIVERSITY OF MINNESOTA

OSKAM, H J; *STUDIES OF COLLISION PROCESSES IN GASEOUS DISCHARGE PLASMAS* (K010383 001); 24 MONTHS \$69,100

CHAMPLIN, KEITH S; *INTERACTIONS BETWEEN ULTRAMICROWAVE RADIATION AND THE SEMICONDUCTOR FREE-CARRIER PLASMA* (K011881 001); 24 MONTHS \$67,600

GOLDSTEIN, R J; *HEAT TRANSPORT BY THERMAL CONVECTION* (K01881 001); 24 MONTHS \$77,900

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MISSISSIPPI STATE UNIVERSITY

MURPHREE, DAVID L; *ARC DISCHARGE AND ELECTRODE SPOT BEHAVIOR IN AN APPLIED MAGNETIC FIELD* (K030344); 24 MONTHS \$71,600

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

WARDER, RICHARD; *INVESTIGATION OF THE ELECTRON ENERGY EXCHANGE PROCESSES IN NONEQUILIBRIUM PLASMAS* (K021150); 24 MONTHS \$71,800

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MONTANA STATE UNIVERSITY

SCANLAN, J A; *NATURAL CONVECTION HEAT TRANSFER FROM A HEATED BODY TO ITS FINITE ENCLOSURE* (K031008); 24 MONTHS \$91,100

NEW YORK

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MARSHALL, T C, GROSS, R A, SCHLESINGER, S P, AND SEN, A K; *PLASMA WAVES, STABILITY, AND DISSIPATION* (K02628 001); 12 MONTHS \$101,800

CORNELL UNIVERSITY

NATION, JOHN A; *NEW HIGH-POWER PULSED MICROWAVE GENERATOR* (K021874); 24 MONTHS \$76,100

NEW YORK UNIVERSITY

CHEN, MICHAEL M; *THERMAL CONVECTION OF HORIZONTAL FLUID LAYERS AT HIGH RAYLEIGH NUMBERS* (K023862); 24 MONTHS \$58,200

RENSSELAER POLYTECHNIC INSTITUTE

WAYNER, PETER C JR; *HEAT AND MASS TRANSFER IN EVAPORATING MENISCI* (K021411); 24 MONTHS \$61,000

TURINSKY, PAUL J; *RESEARCH INITIATION - STUDY OF THE MULTI-TERM SEPARABLE KERNEL METHOD IN NEUTRON SLOWING DOWN THEORY* (K033463); 18 MONTHS \$16,000

STATE UNIVERSITY AT BUFFALO

GILL, WILLIAM N; *MIXING PROPERTIES OF MATERIAL AND THERMAL POLLUTION SOURCES* (K041860); 24 MONTHS \$40,000

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NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

ZUMWALT, LLOYD R; *THE DIFFUSION OF FISSION PRODUCTS IN ALPHA THORIUM* (K023111); 12 MONTHS \$30,900

SAXE, R F, AND EDWARDS, J A; *THE DYNAMICS OF BOILING* (K033048); 12 MONTHS \$28,100

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CASE WESTERN RESERVE UNIVERSITY

PAO, YOH-HAN; *LASER WAVELENGTH AND FREQUENCY STANDARDS BASED ON He-Ne LASERS AND 12129 VAPOR* (K021119); 24 MONTHS \$74,700

MAWARDI, OSMAN K; *SHOCK WAVES AND THE INTERACTION OF A PLASMA BEAM WITH A MAGNETIC BARRIER* (K028301 001); 12 MONTHS \$87,600

GRUBER, S; *STUDY OF GAS TURBULENCE USING OPTICAL PROBES* (K021111 X00); 12 MONTHS \$28,100

TIEN, JAMES S; *RESEARCH INITIATION - COMBUSTION IN THE ROTATING BOUNDARY LAYER* (K022612); 18 MONTHS \$16,000

OSTRACH, SIMON; *EFFECT OF SWIRL ON TWO-PHASE FLOWS* (K021114); 12 MONTHS \$25,500

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KNUDSEN, JAMES G; *NATURAL AND FORCED TURBULENT MIXING BETWEEN INTERCONNECTED ADJACENT FLOW CHANNELS* (K030340 X00); 12 MONTHS \$20,700

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COHEN, IRA M; *RESEARCH IN IONIZED GASES - PROBES AND DISCHARGES* (K00881 001); 24 MONTHS \$70,000

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BROWN UNIVERSITY

CLARKE, JOSEPH H; *Nonequilibrium Phenomena in Strong Ionizing Shock Waves* (K031310); 12 MONTHS \$36,600

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VANDERBILT UNIVERSITY

OVERHOLSER, KNOWLES A; *RESEARCH INITIATION-MEASUREMENT OF MINIMUM IGNITION ENERGIES USING A PULSED LASER* (K028637); 18 MONTHS \$16,000

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SOUTHERN METHODIST UNIVERSITY

HOLMAN, JACK P; *EXPERIMENTAL AND ANALYTICAL STUDIES OF JET BOILING COOLING TECHNIQUES* (K021417); 24 MONTHS \$32,900

TEXAS A & M UNIVERSITY

DAVIDSON, JAMES N; *RESEARCH INITIATION - PLASMA DIFFUSION IN ASYMMETRIC TOROIDAL GEOMETRIES AND ITS EFFECT ON BLANKET DESIGN* (K021629); 18 MONTHS \$15,900

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KRISTIANSEN, M; *THEORETICAL AND EXPERIMENTAL INVESTIGATIONS OF RF PLASMA HEATING* (K011657 001); 24 MONTHS \$39,800

UNIV OF TEXAS AT AUSTIN

GAGE, STEPHEN J, AND ATKINSON, GARDNER D JR; *NONDESTRUCTIVE ASSAY OF SPECIAL NUCLEAR MATERIALS BY FISSION GAMMA RAY ANALYSIS USING A CALIFORNIUM-252 NEUTRON SOURCE* (K026042); 24 MONTHS \$49,400

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FISHER, SAMUEL S; *GAS-SURFACE INTERACTION EXPERIMENTAL RESEARCH* (K020020); 12 MONTHS \$27,200

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SLEICHER, CHARLES A; *DYNAMIC RESPONSE OF HOT FILM ANEMOMETERS IN LIQUID METALS* (K030296); 24 MONTHS \$64,800

WOODRUFF, GENE L; *DELAYED NEUTRON SPECTRA FROM FAST FISSION* (K023288); 12 MONTHS \$42,400

DEWEY, CREIGHTON A; *COMBINED FREE AND FORCED CONVECTION IN A HORIZONTAL CIRCULAR TUBE* (K033931); 12 MONTHS \$31,600

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UNIVERSITY OF WISCONSIN, MADISON

SCHARER, J E; *CYCLOTRON WAVE WARM PLASMA STUDIES* (K021367); 24 MONTHS \$63,000

POWELL, HUGH N; *THERMAL CONDUCTIVITY MEASUREMENT IN HIGH TEMPERATURE GASES* (K023779); 24 MONTHS \$63,600

SHOHET, J L; *MICROWAVE HEATING OF PLASMAS* (K021131); 24 MONTHS \$68,300

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KARADI, GABOR, AND GARVEY, WALTER A; *PUMPED STORAGE DEVELOPMENT AND ITS ENVIRONMENTAL EFFECTS* (K031888); 24 MONTHS \$21,700

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KISIEL, CHESTER C; *SPACE-TIME SAMPLING AND RANDOMNESS IN RELATION TO EQUATIONS OF HYDROLOGIC SYSTEMS* (K034014); 12 MONTHS \$18,500

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

WU, THEODORE Y, AND PLESSET, MILTON S; *BIOPHYSICAL FLUID MECHANICS* (K03118) X00; 12 MONTHS \$78,800

VANONI, VITO A, BROOKS, NORMAN H, AND RAICHLIN, FREDRIC; *BASIC RESEARCH IN SEDIMENTATION* (K031802 X00); 12 MONTHS \$61,600

HUDSON, DONALD E; *RECORDING AND ANALYSIS OF DYNAMIC FULL-SCALE EARTH, BUILDING, AND DAM MOTIONS IN YUGOSLAVIA* (K031941); 12 MONTHS \$19,700

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CEBECI, TUNCER, DYER, J, AND KYLE, C R; *PREDICTION OF MEAN AND FLUCTUATING FLOW VARIABLES IN TURBULENT BOUNDARY LAYERS* (K030981); 24 MONTHS \$41,789

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

SANDERS, CHARLES F; *1972 HEAT TRANSFER AND FLUID MECHANICS INSTITUTE MEETING* (K031417); 12 MONTHS \$1,500

CALIFORNIA STATE UNIVERSITY, SAN DIEGO

KAY, J NEIL; *RESEARCH INITIATION - INTERLOCK TENSION IN CELLULAR SHEET PILE TYPE STRUCTURES* (K032834); 18 MONTHS \$16,000

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ACRIVOS, ANDREAS; *TRANSPORT PHENOMENA WITHIN REGIONS OF CLOSED STREAMLINE FLOWS* (K031432 X01); 12 MONTHS \$39,200

REMSON, IRWIN; *HYDROLOGIC MODELS FOR PREDICTING THE EFFECTS OF URBANIZATION* (K028133 X01); 12 MONTHS \$21,800

VINCENTI, WALTER G; *EXPERIMENTAL DETERMINATION OF MOLECULAR NONEQUILIBRIUM PARAMETERS* (K030635); 22 MONTHS \$73,300

HSU, E Y, AND STREET, R L; *STUDIES OF SEA-AIR INTERACTIONS* (K031805 X00); 12 MONTHS \$61,300

HAYES, WILSON C; *RESEARCH INITIATION - STRESS-REMODELING RELATIONSHIPS IN BONE* (K032636); 18 MONTHS \$16,000

RICHARDS, CEDRIC W, AND HELMUTH, RICHARD A; *MICROMECHANICS OF EXPANSIVE REACTIONS IN CONCRETE* (K034011 X00); 12 MONTHS \$59,800

KARAMCHETI, K; *EIGHTH INTERNATIONAL SYMPOSIUM ON RAREFIED GAS DYNAMICS* (K03116); 12 MONTHS \$2,700

UNIVERSITY OF CALIFORNIA, BERKELEY

POLIVKA, MILOS; *MECHANISM OF CREEP OF CONCRETE UNDER THE EFFECTS OF CYCLIC CHANGES IN TEMPERATURE AND HUMIDITY* (K003901 001); 24 MONTHS \$42,500

HURLBUT, F C, AND TALBOT, L; *MOLECULAR DISTRIBUTION FUNCTIONS IN RAREFIED GAS FLOW* (K011831 001); 24 MONTHS \$131,900

LUBLINER, JACOB, AND MCNIVEN, H D; *FINITE DEFORMATION WAVES IN ARTERIES* (K031491 X01); 12 MONTHS \$34,700

MITCHELL, JAMES K; *COLLABORATIVE RESEARCH ON SOIL-CEMENT SLOPE PROTECTION FOR EARTH EMBANKMENTS* (K025975); 24 MONTHS \$19,100

SCORDELIS, ALEXANDER C; *STRESS ANALYSIS OF CRACKED REINFORCED CONCRETE MEMBERS AND SYSTEMS* (K028073 X01); 12 MONTHS \$26,300

HSU, CHIEH S; *DYNAMIC STABILITY OF RETARDED ELASTIC AND AEROELASTIC SYSTEMS* (A311025); 24 MONTHS \$56,200

BOUWKAMP, J G, AND WILSON, E L; *STRUCTURAL ANALYSIS OF HIGH-RISE BUILDINGS CONSTRUCTED BY INDUSTRIALIZED METHODS* (K031586 X00); 12 MONTHS \$57,600

GREIF, RALPH; *GAS FLOWS AT HIGH TEMPERATURES* (K031773); 24 MONTHS \$36,000

MIKA, THOMAS S; *RESEARCH INITIATION - MODELING BATCH SIZE REDUCTION PROCESSES* (K032635); 18 MONTHS \$16,000

UNIVERSITY OF CALIFORNIA, DAVIS

SHEN, CHIH-KANG; *COLLABORATIVE RESEARCH ON SOIL-CEMENT SLOPE PROTECTION FOR EARTH EMBANKMENTS* (K025972); 24 MONTHS \$25,700

UNIVERSITY OF CALIFORNIA, LOS ANGELES

MAL, A K, AND KNOPOFF, LEON; *ELASTIC WAVES IN COMPOSITES* (K018775); 24 MONTHS \$47,300

MUKI, R, AND WESTMANN, R A; *MECHANICS OF ADHESIVE JOINTS* (K030773); 24 MONTHS \$62,000

DUBOWSKY, STEVEN; *RESEARCH INITIATION - DYNAMICS OF HIGH SPEED NONLINEAR MECHANISMS* (K032635); 18 MONTHS \$20,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

FUNG, Y C; *CARDIO-PULMONARY DYNAMICS* (K032978 X00); 12 MONTHS \$72,600

VAN ATTA, CHARLES W; *SPECTRAL TRANSFER IN HIGH REYNOLDS NUMBER TURBULENT FLOWS* (K033789); 12 MONTHS \$46,000

WOO, SAVIO L-Y, AND AKESON, WAYNE H; *ARTICULAR CARTILAGE OF THE HUMAN FEMORAL HEAD* (K034013); 12 MONTHS \$23,800

HEGEMIER, G A; *WAVE PROPAGATION IN NONHOMOGENEOUS ELASTIC AND ANELASTIC MEDIA* (K034017); 12 MONTHS \$64,800

UNIVERSITY OF SOUTHERN CALIFORNIA

WEINGARTEN, VICTOR I; *EFFECTS OF NONLINEARITIES ON THE DYNAMIC RESPONSE OF SHELLS* (K03318 X01); 12 MONTHS \$17,500

MUNTZ, E P; *COLLABORATIVE EXPERIMENTAL STUDY OF A NEW GASEOUS SEPARATION PROCESS* (K030982); 24 MONTHS \$80,200

MARGOLIAS, DAVID S; *RESEARCH INITIATION - BUCKLING OF HYPERBOLOIDAL COOLING TOWERS* (K032625); 18 MONTHS \$16,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO-REVELLE COLLEGE

REISSNER, ERIC; *SPECIAL PROBLEMS OF ELASTIC BEAMS, PLATES, AND SHELLS* (K030989); 24 MONTHS \$35,500

COLORADO

COLORADO STATE UNIVERSITY

BODIG, JOZSEF, AND GOODMAN, JAMES R; *STRESS-STRAIN CURVES OF WOOD IN COMPRESSION* (K015785 001); 12 MONTHS \$10,400

MERONEY, ROBERT N; *LAMINAR/TURBULENT TRANSITION IN TRANSPICED BOUNDARY LAYER FLOWS* (K032989); 24 MONTHS \$41,000

NICKERSON, EVERETT C; *AN EXTREMAL STUDY OF STRATIFIED SHEAR FLOWS* (K030536); 24 MONTHS \$37,800

VANDERBILT, M D, GOODMAN, J R, CRISWELL, M E, AND BODIG, J; *A RATIONAL ANALYSIS AND DESIGN PROCEDURE FOR WOOD JOIST FLOOR SYSTEMS* (K030831); 24 MONTHS \$205,700

YEVJEVICH, V; *STOCHASTIC PROCESSES IN WATER RESOURCES* (K031514 X00); 12 MONTHS \$85,400

YEVJEVICH, VUJICA; *INVESTIGATION OF WATER RESOURCES IN KARST REGIONS* (K031529 X00); 12 MONTHS \$33,800

VANDER WERFF, TERRY J; *RESEARCH INITIATION - EFFECTS OF LOCALIZED ABNORMALITIES ON BLOOD FLOW IN ARTERIES* (K032847); 18 MONTHS \$20,000

LONGENBAUGH, R A; *SECOND FORT COLLINS INTERNATIONAL SYMPOSIUM IN HYDROLOGY ON FLOODS, DROUGHTS, AND DECISION MAKING WITH SCARCE DATA* (K033375); 12 MONTHS \$33,900

MERONEY, ROBERT N; *NUMERICAL AND PHYSICAL MODELS OF URBAN HEAT ISLAND* (K032800); 9 MONTHS \$17,900

BALDWIN, KIONEL V; *AN EXPERIMENTAL AND SIMULATION STUDY OF TURBULENT SHEAR FLOW* (K031421); 4 MONTHS \$10,000

UNIVERSITY OF COLORADO

SNYDER, HOWARD; *GEOPHYSICAL MODELING EXPERIMENTS AND NONLINEAR INSTABILITY* (K025290); 24 MONTHS \$39,600

SCHIFFMAN, ROBERT L; *SPECIAL CONFERENCE ON COMPUTER SOFTWARE FOR CIVIL ENGINEERING* (K030332); 12 MONTHS \$13,500

KREITH, FRANK; *LABORATORY MODELING OF THE LOWER ATMOSPHERE* (K030584); 24 MONTHS \$33,500

SCHIFFMAN, ROBERT L; *COLLABORATIVE RESEARCH - COMPUTER BASED TECHNOLOGY TRANSFER IN CIVIL ENGINEERING* (K032971 X00); 12 MONTHS \$73,700

CONNECTICUT

YALE UNIVERSITY

WEGENER, PETER P; *BUBBLE INDUCED VERTICAL MASS TRANSPORT IN WATER* (K033038 X00); 12 MONTHS \$18,500

DISTRICT OF COLUMBIA

GEORGE WASHINGTON UNIVERSITY

TORIDIS, THEODORE G; *ULTIMATE STRENGTH OF BUILDING SYSTEMS SUBJECTED TO DYNAMIC LOADS* (K034051 X00); 12 MONTHS \$43,000

CHI, S W; *WIND LOADINGS OF GROUND STRUCTURES IN INTENSE ATMOSPHERIC VORTICES* (K034052); 12 MONTHS \$16,500

NATIONAL ACADEMY OF ENGINEERING

DILLON, ROBERT M; *SUPPORT OF THE U.S. NATIONAL COMMITTEE FOR THE INTERNATIONAL COUNCIL FOR BUILDING RESEARCH STUDIES AND DOCUMENTATION* (C310186 001); 12 MONTHS \$30,000

NATIONAL ACADEMY OF SCIENCES

DILLON, ROBERT M; *PRECOORDINATED SUBSYSTEMS FOR BUILDING* (C310337); 15 MONTHS \$15,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

CLIFFE, ROBERT A; *INSPECTION OF DAMAGE DUE TO NATURAL DISASTERS* (C310115 008); 12 MONTHS \$14,300

FLORIDA

UNIVERSITY OF FLORIDA
PARTHENIADES, EMMANUEL; DEPOSITION OF FINE SEDIMENTS IN
TURBULENT FLOWS (K031133); 24 MONTHS \$49,700

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL
EXPERIMENT STATION
SHEMIDIN, O H; GENERATION AND GROWTH OF WIND WAVES
(K031103); 24 MONTHS \$139,700

SHEMIDIN, O H; LABORATORY INVESTIGATION OF GENERATION AND
GROWTH OF WIND WAVES (K031103 001); \$0
NEVILL, O E JR; LOWER BOUNDS ON DISPLACEMENTS OF DYNAMI-
CALLY LOADED STRUCTURES (K031030); 12 MONTHS \$30,300

UNIVERSITY OF MIAMI-SCHOOL OF MARINE AND ATMOSPHERIC
SCIENCES
VAN DE KREEKE, J; RESEARCH INITIATION - INVESTIGATION INTO
THE TIDE-INDUCED MASS TRANSPORT IN SHALLOW LAGOONS
(K031041); 18 MONTHS \$16,000

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY
WINER, WARD O, AND SANBORN, DAVID M; RHEOLOGICAL EFFECTS
IN THIN FILM LUBRICATION (K031114); 24 MONTHS \$69,100
BROWN, RUSSELL H; RESEARCH INITIATION - PREDICTION OF COM-
PRESSIVE STRENGTH OF MASONRY STRUCTURAL SYSTEMS (K031040);
18 MONTHS - \$15,900

HAWAII

UNIVERSITY OF HAWAII
HARRENSTIEN, H P; INTERNATIONAL CONFERENCE ON
HYDROMECHANICALLY LOADED SHELLS (K030116); 14 MONTHS \$15,900
GERSCH, WILL, AND NIELSEN, N NORBY; THE IDENTIFICATION OF
RANDOMLY EXCITED LINEAR STRUCTURAL SYSTEMS (K031172); 24
MONTHS \$131,600

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY
BARNETT, RALPH L; MINIMUM COST STRUCTURAL DESIGN BASED
ON NONDESTRUCTIVE PROOF TESTING (K030878); 24 MONTHS \$43,300
LEONARD, JOHN W; NONLINEAR DYNAMICS OF CABLE NETWORKS
AND REINFORCED MEMBRANES WITH SMALL INITIAL TENSIONS
(K031041); 24 MONTHS \$32,200

NORTHWESTERN UNIVERSITY
ACHENBACH, JAN D; FRACTURE OF BRITTLE MATERIALS UNDER
IMPACT LOADS (K04117); 24 MONTHS \$54,200
NEMAT-NASSER, S; CONSISTENCY AND ERROR-ESTIMATE IN NU-
MERICAL ANALYSIS OF PRE- AND POST-CRITICAL RESPONSE OF
ELASTIC CONTINUA AT FINITE STRAINS (K031132); 24 MONTHS \$44,500
MURA, TOSHIO; A VARIATIONAL PRINCIPLE FOR MICRO-
MECHANICS OF COMPOSITE MATERIALS (K031020 X09); 12 MONTHS
\$23,400

UNIVERSITY OF ILLINOIS AT URBANA
ANG, ALFREDO H S; PROBABILISTIC ASPECTS OF STRUCTURAL
MECHANICS RELEVANT TO SAFETY AND DESIGN (K001114 X02); 12
MONTHS \$44,800

KARARA, H M; RATIONAL DESIGN OF CLOSE-RANGE PHOTOGRAM-
METRIC SYSTEMS (K011035 001); 12 MONTHS \$41,200
HOLLEY, E R; TRACER MIXING FOR DISCHARGE MEASUREMENTS
IN PIPES (K021031); 24 MONTHS \$49,300
LAWRENCE, F V JR, YOUNG, J F, AND HILSDORF, H K; IMPROVE-
MENT OF THE MECHANICAL PROPERTIES OF PORTLAND CEMENT
CONCRETE (K030774 X00); 12 MONTHS \$85,200
LIN, Y K; RANDOM VIBRATIONS OF ALMOST PERIODIC STRUCTURES
(K031116 X00); 12 MONTHS \$41,900

INDIANA

PURDUE UNIVERSITY
KOVACS, WILLIAM D; THE LIQUEFACTION BEHAVIOR OF SATU-
RATED SANDS IN CYCLIC SIMPLE SHEAR (K030124); 12 MONTHS \$9,100
YAO, JAMES T P; RELIABILITY IN THE DESIGN OF STRUCTURES FOR
DYNAMIC LOADS (K030551); 24 MONTHS \$64,100
SCHIFF, ANSHEL J; DETERMINING DYNAMIC STRUCTURAL
RESPONSE (K031157); 24 MONTHS \$91,400

UNIVERSITY OF NOTRE DAME
NEE, VICTOR W, AND YANG, KWANG-TZU; PHENOMENOLOGICAL AP-
PROACH TO TURBULENT BOUNDARY-LAYERS (K031024); 24 MONTHS
\$65,300
NEE, VICTOR W; FEASIBILITY STUDY OF A MULTI-PURPOSE
METEOROLOGICAL WIND TUNNEL (K031177); 12 MONTHS \$60,000

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY
KIRKHAM, DON; NON-ORTHONORMAL POLYNOMIAL METHOD AP-
PLIED TO SOME POTENTIAL FLOW PROBLEMS (K031117); 24 MONTHS
\$46,100
DEMIREL, TURGUT, AND LOHNES, ROBERT A; CLAY STRENGTH AND
RATE PROCESS THEORY (K031041 X00); 18 MONTHS \$32,900

KENTUCKY

UNIVERSITY OF KENTUCKY
BROCK, LOUIS M; RESEARCH INITIATION - INTERFACE FLOW EX-
TENSION IN LAMINATED COMPOSITE MATERIALS (K031117); 18
MONTHS \$15,300
HSU, NELSON N; RESEARCH INITIATION - STRESS ANALYSIS USING
THE ACOUSTICAL BIREFRINGENCE OF ULTRASONIC WAVES (K031018);
18 MONTHS \$15,900

LOUISIANA

TULANE UNIVERSITY
COWIN, S C; GRAVITY FLOW OF GRANULAR MATERIALS (K031071); 24
MONTHS \$58,700

MARYLAND

JOHNS HOPKINS UNIVERSITY
ERICKSEN, J L; NONLINEAR CONTINUUM THEORIES (K031004 001); 24
MONTHS \$86,000
CORRSIN, STANLEY; FLUID MECHANICS PROBLEMS RELATED TO
BIOLOGICAL FLOW PHENOMENA (K031004 X01); 12 MONTHS \$45,100
DAVIS, STEPHEN H; INTERFACIAL FLUID DYNAMICS (K031714); 24
MONTHS \$57,550
CORRSIN, STANLEY; BASIC RESEARCH ON TURBULENT FLOW AND
ITS EFFECTS (K031010); 12 MONTHS \$31,000
UNIVERSITY OF MARYLAND, COLLEGE PARK
ASIMOW, R M; PLANE STRESS FATIGUE CRACK PROPAGATION
(K031172); 12 MONTHS \$7,400
HOLLOWAY, DAVID C; RESEARCH INITIATION - INVESTIGATIONS
INTO THE HOLOGRAPHIC AND DIFFRACTION METHODS IN DYNAMIC
STRESS ANALYSIS (K031040); 18 MONTHS \$16,000
REBUCK, ERNEST C; RESEARCH INITIATION - NUMERICAL AND
FIELD EVALUATION OF UNCONFINED FLOW TO A SINGLE WELL
(K031040); 18 MONTHS \$16,000

MASSACHUSETTS

BOSTON ARCHITECTURAL CENTER
WILSON, DUNCAN M; FIRST INTERNATIONAL SYSTEMS BUILDING
ROUND TABLE DISCUSSION CONFERENCE (K030813); 12 MONTHS \$18,500
WILSON, DUNCAN M; FIRST INTERNATIONAL SYSTEMS BUILDING
ROUND TABLE DISCUSSION CONFERENCE (K030813 101); 6 MONTHS
\$8,900

HARVARD UNIVERSITY
MCMAHON, THOMAS A; RESEARCH INITIATION - RHEOLOGY OF
SUSPENSIONS-DOPPLER FLOWMETER EXPERIMENTS (K031066); 18
MONTHS \$16,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
MCCLEINTOCK, FRANK A, AND ARGON, ALI S; MECHANICS OF DUC-
TILE FRACTURE (K031173 X02); 12 MONTHS \$103,200
CRANDALL, STEPHEN H; SOUND REINFORCEMENT BY STRUCTURAL
INTERACTION (K010100 002); 6 MONTHS \$13,500
NEWMAN, JOHN N; APPLICATIONS OF WATER-WAVE THEORY TO
FLOATING BODIES (K010100 001); 24 MONTHS \$68,000
KEIL, ALFRED H; SYSTEMATIC SUPPORT FOR MARINE APPLIED
MECHANICS (K020100 X01); 12 MONTHS \$78,200
LYON, RICHARD H; SOUND TRANSMISSION IN BUILDINGS (K031173
X01); 12 MONTHS \$89,900
HANSEN, ROBERT J; RESEARCH IN BUILDING SYSTEMS (K025310
X01); 15 MONTHS \$186,300
DEVANNEY, J W; STUDY OF HARBOR TRAFFIC CONTROL (K030947); 22
MONTHS \$58,400
SHAPIRO, ASCHER H, AND JAFFRIN, MICHEL Y; SELF-INDUCED DIF-
FUSION OF SOLID PARTICLES IN SUSPENSIONS (K031103); 24 MONTHS
\$70,600

JAFFRIN, MICHEL Y; OSCILLATORY FLUID FLOW IN LUNGS (K031006);
24 MONTHS \$52,100
GELHAR, LYNN W; INTERACTION BETWEEN TURBULENT FLOWS
AND PERMEABLE BOUNDARIES (K031174 X00); 12 MONTHS \$24,100
MADSEN, OLE S; RESEARCH INITIATION - THE STABILITY OF A
SAND BED UNDER THE ACTION OF BREAKING WAVES (K031045); 18
MONTHS \$18,000
WILLIAMS, JAMES H JR; RESEARCH INITIATION-FRACTURE
MECHANISMS OF GRAPHITE COMPOSITES DUE TO PARTICLE
IMPINGEMENT (K031071); 18 MONTHS \$16,000
MILGRAM, JEROME H; WAVE EFFECTS ON THE CONTAINMENT AND
COLLECTION OF OIL SLICKS (K031010); 12 MONTHS \$60,000

LAMBE, T WILLIAM; PREDICTING THE PERFORMANCE OF CONSTRUCTED FACILITIES (K044016); 12 MONTHS \$100,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

BOOTHROYD, GEOFFREY, AND MCLENNAN, GEORGE A; INTERFACE DAMPING IN MACHINE TOOL STRUCTURES (K041460); 24 MONTHS \$49,100

KIRCHHOFF, ROBERT H; THE DIRECT MEASUREMENT OF VELOCITY GRADIENTS IN FLUID FLOW (K030481); 18 MONTHS \$11,500

ARCHER, ROBERT R; SOME CONTINUUM MECHANICAL MODELS FOR THE STUDY OF PLANT GROWTH PHENOMENON (K031490); 24 MONTHS \$70,100

CROSSLEY, F R ERSKINE; DYNAMICS OF MECHANISMS WITH TWO REGIMES AND SHOCK (K028774); 24 MONTHS \$63,900

CROSSLEY, F R E, AND LIANDER, BERTIL; WORKSHOP ON NATIONAL PRODUCTIVITY IN DURABLE GOODS MANUFACTURING (K031180); 12 MONTHS \$43,500

MICHIGAN

UNIVERSITY OF MICHIGAN

LUDEMA, KENNETH C; ELASTO-HYDRODYNAMICS AND WET TIRE TRACTION (K030490); 24 MONTHS \$45,700

WILLMARTH, WILLIAM W; STRUCTURE OF TURBULENCE IN THE BOUNDARY LAYER (K030482); 24 MONTHS \$45,100

TAYLOR, JOHN E; ANALYTICAL METHODS FOR OPTIMAL STRUCTURAL DESIGN (K041174); 24 MONTHS \$49,900

CHACE, MILTON A; GENERALIZED DYNAMICS OF MACHINERY - DETERMINATION AND DEVELOPMENT OF ANALYTICAL AND COMPUTER METHODS (K031800); 24 MONTHS \$45,100

SHERMAN, PAULINE M, AND GLASS, D R; AN INVESTIGATION OF ACOUSTIC FEEDBACK FOR THE REDUCTION OF JET NOISE (K033801); 12 MONTHS \$60,000

WAYNE STATE UNIVERSITY

WHITMAN, A B, AND DESILVA, C N; NONLINEAR RESPONSE OF RODS AND SHELLS TO TIME-DEPENDENT LOADS AND TEMPERATURE FIELDS (K031081); 24 MONTHS \$61,500

MINNESOTA

UNIVERSITY OF MINNESOTA

JOSEPH, DANIEL D; STUDIES IN HYDRODYNAMIC STABILITY (K018500 001); 24 MONTHS \$60,400

FOSDICK, ROGER L; INVESTIGATIONS IN CONTINUUM MECHANICS (K033199); 24 MONTHS \$55,900

KILLEN, JOHN M, AND WETZEL, JOSEPH M; ZERO-CROSSING-RATE TECHNIQUE FOR SHEAR FLOW MEASUREMENTS (K030386); 12 MONTHS \$33,100

FORSTROM, RICHARD J; RESEARCH INITIATION - RED BLOOD CELL PERMEABILITY IN SHEAR FIELDS (K032669); 18 MONTHS \$16,000

ERDMAN, ARTHUR G; RESEARCH INITIATION - KINETO-ELASTODYNAMIC DESIGN OF MECHANISMS (K033672); 18 MONTHS \$15,900

SILBERMAN, EDWARD; THE MECHANISM OF TURBULENCE IN STEADY HELICAL PIPE FLOW (K033817); 12 MONTHS \$27,000

ANDERSON, ALVIN G; DEVELOPMENT OF MEANDER SYSTEMS WITH SPECIAL REFERENCE TO THE DISCHARGE SPECTRUM (K034631); 12 MONTHS \$33,100

UNIVERSITY OF MINNESOTA-INSTITUTE OF TECHNOLOGY

LAMBERT, ROBERT F, AND MORAN, JOHN P; PREDICTION AND MEASUREMENT OF SOUND PROPAGATION IN LINED FLOW DUCTS (K034041); 12 MONTHS \$37,800

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI

PRASAD, SHYAM N, AND GEORGE, K P; SHRINKAGE DEFORMATION IN PANELS OF CRACKED PAYEMENTS (K025604); 24 MONTHS \$61,900

MISSOURI

UNIVERSITY OF MISSOURI, ROLLA

URAL, OKTAY; SECOND INTERNATIONAL SYMPOSIUM ON LOWER-COST HOUSING PROBLEMS (K031504); 12 MONTHS \$4,100

URAL, OKTAY; SECOND INTERNATIONAL SYMPOSIUM ON LOWER-COST HOUSING PROBLEMS (K031504 001); 9 MONTHS \$5,300

WASHINGTON UNIVERSITY

WEINBERG, STEVEN L; RESEARCH INITIATION - AN INVESTIGATION OF UPPER URINARY FLUID MECHANICS (K033668); 18 MONTHS \$16,000

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

ERNST, GEORGE C, AND SMITH, GERALD M; STATIC AND DYNAMIC BEHAVIOR OF REINFORCED CONCRETE FRAMEWORKS (K031103); 24 MONTHS \$55,900

NEW JERSEY

PRINCETON UNIVERSITY

BOGDONOFF, S M, LAM, S H, AND BIENKOWSKI, O K; STUDIES OF HIGH MACH NUMBER LOW DENSITY FLOWS (K031804 X00); 12 MONTHS \$72,000

MOON, FRANCIS C; DYNAMICS OF ELASTIC STRUCTURES WITH HIGH CURRENTS (K03 311); 24 MONTHS \$65,200

RUTGERS UNIVERSITY

PESKIN, RICHARD L; INVESTIGATION OF PARTICLE MOTION IN SHEAR FLOWS (K031784 X00); 12 MONTHS \$39,200

NEW YORK

AMERICAN SOCIETY OF CIVIL ENGINEERS

TAYLOR, DONALD C; CONFERENCE ON THE GOALS OF CIVIL ENGINEERING RESEARCH - THE RESPONSIVENESS TO THE NEEDS, DESIRES AND ASPIRATIONS OF MAN (K030716); 12 MONTHS \$10,000

MCPHERSON, MURRAY B; A CONFERENCE ON URBAN WATER POLICY - A REVIEW OF PRELIMINARY FINDINGS OF THE NATIONAL WATER COMMISSION (K031288); 9 MONTHS \$9,700

WISELY, WILLIAM H; A FEASIBILITY STUDY FOR THE CIVIL ENGINEERING SOFTWARE CENTER CONCEPT (K031488); 12 MONTHS \$24,900

TURCHICK, ALBERT W; ASCE SYSTEMS BUILDING CONFERENCE (K031509); 8 MONTHS \$10,200

WISELY, WILLIAM H; SUPPORT OF A RESEARCH LECTURE ON PROBLEMS AND SOLUTIONS RELATED TO METRIC CONVERSION IN THE U.S.A. (K033409); 6 MONTHS \$1,000

TAYLOR, DONALD C; EVALUATION OF CURRENT METHODS OF STRUCTURAL DYNAMICS ANALYSIS USING NUCLEAR-INDUCED TRANSIENT EXCITATION (K033874*); 12 MONTHS \$37,000

AMERICAN SOCIETY OF MECHANICAL ENGINEERS

ADAMCZAK, R L; 1972 ASME-ASLE INTERNATIONAL LUBRICATION CONFERENCE (K034197); 12 MONTHS \$10,000

CITY COLLEGE

LOWEN, GERARD; OPTIMIZATION OF MASS DISTRIBUTION IN MECHANISMS (K031871); 24 MONTHS \$68,900

ZOLLO, RONALD F; RESEARCH INITIATION - EXTRUSION OF WIRE FIBER REINFORCED CONCRETE (K031861); 18 MONTHS \$20,000

COLUMBIA UNIVERSITY

FREUDENSTEIN, FERDINAND; MATHEMATICAL AND KINEMATIC ANALYSIS OF THE SURFACES GENERATED IN PLANE AND SPATIAL MOTIONS OF MECHANISMS (K025146); 24 MONTHS \$42,900

CORNELL UNIVERSITY

SLATE, FLOYD O, AND NILSON, ARTHUR H; NATURE OF THE STRESS-STRAIN RESPONSE AND FRACTURE OF CONCRETE IN BIAXIAL LOADING (K031470); 24 MONTHS \$89,300

NEW YORK UNIVERSITY

BENNETT, LEON; SEMI-HOVERING AERODYNAMICS (K031815 X00); 12 MONTHS \$34,700

KELLER, JOSEPH B; MATHEMATICAL PROBLEMS OF ELECTROMAGNETIC THEORY AND OTHER APPLIED FIELDS (K033894 X00*); 12 MONTHS \$30,000

POLYTECHNIC INSTITUTE OF BROOKLYN

GOLDBERG, MARTIN A; THERMOELASTIC STRESS DISTRIBUTION AT A CRACK-TIP (K034018); 12 MONTHS \$26,000

RENSSELAER POLYTECHNIC INSTITUTE

KREMPL, ERHARD; CYCLIC STRAIN HARDENING AND SOFTENING OF STRUCTURAL METALLIC MATERIALS DURING LOW-CYCLE FATIGUE (K023549); 24 MONTHS \$39,200

MOW, VAN C; BIOMECHANICS OF SYNOVIAL JOINTS (K030841); 24 MONTHS \$100,000

STATE UNIVERSITY AT BUFFALO

SOONG, T T, AND LEE, GEORGE C; STOCHASTIC MODELING AND ANALYSIS OF LUNG TISSUE ELASTICITY (K031819); 24 MONTHS \$70,900

STATE UNIVERSITY AT STONY BROOK

CHEVRAY, RENE; PREFERENTIAL TRANSPORT IN THE INTERMITTENT REGION OF A HEATED JET (K031178); 24 MONTHS \$29,300

TASI, JAMES; RESPONSE OF A LATTICE LOCATION IN A LINEAR CHAIN TO A TRAVELLING STRESS WAVE (K031513); 24 MONTHS \$30,400

SYRACUSE UNIVERSITY

ESKINAZI, S; CONVECTION OF JETS AT AN ANGLE OF INCIDENCE TO A FREE STREAM (K031744); 12 MONTHS \$38,000

LI, WEN-HSIUNG; DISPERSION OF POLLUTANTS IN TIDAL ENVIRONMENT (K033815); 12 MONTHS \$60,500

LIU, H W; CYCLIC DEFORMATION AND FATIGUE STRENGTH (K034017); 12 MONTHS \$31,900

UNIVERSITY OF ROCHESTER

WEYMANN, HELMUT D; RELAXATION BEHAVIOR OF THIXOTROPIC SUSPENSIONS (K030874); 24 MONTHS \$54,100

WEBB INSTITUTE OF NAVAL ARCHITECTURE

WARD, LAWRENCE W.; EXPERIMENTAL DETERMINATION OF SHIP RESISTANCE IN MODEL AND FULL SCALE (K031019); 12 MONTHS \$30,100

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

HAYNER, KERRY S.; ANALYTICAL AND QUANTITATIVE STUDIES IN THEORETICAL POLYCRYSTALLINE PLASTICITY (K031114); 24 MONTHS \$55,500

OHIO

CASE WESTERN RESERVE UNIVERSITY

ADLER, ROBERT J. AND EDWARDS, ROBERT V.; SECONDARY FLOW CONTROL OF AXIAL DISPERSION (K031112); 12 MONTHS \$75,000
 SAADA, ADEL B.; STRESS-STRAIN RELATION AND FAILURE OF ANISOTROPIC NATURAL CLAYS (K031014); 3 MONTHS \$8,000

OHIO STATE UNIVERSITY

WELLS, MICHAEL K.; RESEARCH INITIATION - NONINVASIVE MEASUREMENT OF PHYSIOLOGICAL FLOW PARAMETERS (K031153); 18 MONTHS \$30,000
 WU, T. H. AND HOOPER, J. R.; ENVIRONMENTAL INFLUENCES ON STABILITY OF SOIL MASSES (K031022 X00); 12 MONTHS \$42,100

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

MCLAUGHLIN, DENNIS K.; RESEARCH INITIATION - INTERACTION OF INSTABILITIES AND ACOUSTIC RADIATION IN LAMINAR JETS (K031166); 18 MONTHS \$16,000

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

HUGHES, W. F. AND ROULEAU, W. T.; WAVES, TRANSIENTS AND STABILITY IN VISCOUS AND HYDROMAGNETIC FLUID FLOW (K031014); 18 MONTHS \$62,700

AU, TUNG, AND WONO, ANDREW K. C.; SYSTEMS APPROACH TO ENVIRONMENTAL PLANNING AND DESIGN (K031090); 24 MONTHS \$93,000
 DYM, CLIVE L.; OPTIMUM DESIGN OF PARTITIONS FOR MINIMUM SOUND TRANSMISSION (K031117); 24 MONTHS \$43,600

PARTI, ERNEST W.; RESEARCH INITIATION - A COMPUTERIZED LAYOUT MODEL FOR URBAN REGIONAL PLANNING (K031112); 18 MONTHS \$18,000

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DICESARE, FRANK; *RESEARCH INITIATION - MODELLING THE DYNAMIC-RESIDENTIAL GROWTH OF AN URBAN AREA* (K031998); 18 MONTHS \$16,000

ROCHESTER INSTITUTE OF TECHNOLOGY

RHODY, HARVEY E; *RESEARCH INITIATION - SPEECH COMPRESSION BY SEGMENT CODING* (K031707); 18 MONTHS \$19,800

STATE UNIVERSITY AT BUFFALO

SCOTT, PETER D; *RESEARCH INITIATION - OPTIMAL CHEBYSHEV REGULATION* (K031703); 18 MONTHS \$16,000

STATE UNIVERSITY AT STONY BROOK

CHANG, SHELDON S L; *MULTISTAGE DECISION PROCESSES USING FUZZY DYNAMIC PROGRAMMING* (K018017 001); 12 MONTHS \$10,100

DUNCAN, TYRONE E; *STOCHASTIC PROBLEMS IN COMMUNICATION AND CONTROL* (K031348); 12 MONTHS \$15,400

STROKE, GEORGE W; *FUNDAMENTAL STUDIES IN ENGINEERING OPTICS* (K031842 X00); 12 MONTHS \$67,500

SYRACUSE UNIVERSITY

HARRINGTON, ROGER F; *MATRIX METHODS FOR ELECTROMAGNETIC FIELD COMPUTATIONS* (K004227 002); 24 MONTHS \$52,000

RUDOLPH, LUTHER D; *SEQUENTIAL CODE REDUCTION* (K031415); 24 MONTHS \$60,000

UNITED ENGINEERING TRUSTEES

PRESTON, KENDALL JR, AND FU, K S; *CONFERENCE ON PATTERN INFORMATION PROCESSING* (K031935); 12 MONTHS \$16,000

PRESTON, KENDALL JR; *CONFERENCE ON AUTOMATIC CYTOLOGY* (K031937); 12 MONTHS \$6,900

UNIVERSITY OF ROCHESTER

STREIFER, WILLIAM; *GUIDANCE AND GENERATION OF OPTICAL RADIATION* (K031042); 12 MONTHS \$34,200

NEW YORK UNIVERSITY-UNIVERSITY HEIGHTS CENTER

RUDD, MICHAEL J; *RESEARCH INITIATION - ACOUSTIC DOPPLER RADAR* (K031860); 18 MONTHS \$16,000

POLYTECHNIC INSTITUTE OF BROOKLYN-GRADUATE CENTER

OLINER, ARTHUR A; *ACOUSTIC SURFACE WAVEGUIDES* (K031994); 12 MONTHS \$45,000

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

ELMAGHRABY, SALAH E; *THEORY OF SCHEDULING AND ACTIVITY NETWORKS* (K031954); 24 MONTHS \$51,000

OHIO

CASE WESTERN RESERVE UNIVERSITY

BLANKENSHIP, GILMER L; *RESEARCH INITIATION - ESTIMATION IN NONLINEAR STATE SPACE* (K031700); 15 MONTHS \$16,000

SHAPIRO, JEFFREY H; *SPATIAL COMMUNICATION THEORY FOR THE TURBULENT ATMOSPHERE* (K031811); 24 MONTHS \$56,100

OHIO STATE UNIVERSITY

GARBACZ, ROBERT J; *CHARACTERISTIC MODE THEORY APPLIED TO ANTENNA ARRAYS* (K031938); 12 MONTHS \$36,300

PEAKE, WILLIAM H; *RADIOMETER ANTENNAS* (K031874); 12 MONTHS \$45,800

RUDDUCK, ROGER C; *INVESTIGATION OF APERTURE NEAR FIELD PHENOMENA* (K031895); 12 MONTHS \$23,000

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

HADY, M ABDEL; *REMOTE SENSING APPLICATIONS TO AGRICULTURE AND REGIONAL DEVELOPMENT PROJECTS* (F031866*); 12 MONTHS \$2,520

HADY, M ABDEL, AND MUSTAFA, HASAN; *APPLICATIONS OF MODERN AIRBORNE REMOTE SENSING AND AERIAL RECONNAISSANCE TECHNIQUES TO AGRICULTURE AND REGIONAL DEVELOPMENT* (F031866 001*); 12 MONTHS \$3,000

MULHOLLAND, R J; *EXPONENTIAL REPRESENTATIONS OF LINEAR PHYSICAL SYSTEMS* (K031041); 24 MONTHS \$54,600

UNIVERSITY OF TULSA

BEDNAR, J BEE; *TWO-DIMENSIONAL RECURSIVE DIGITAL FILTERS* (K031764); 12 MONTHS \$25,600

OREGON

OREGON STATE UNIVERSITY

MOHLER, RONALD R; *BILINEAR CONTROL PROCESSES* (K031818); 12 MONTHS \$11,000

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

LEE, SING H, AND JORDAN, A G; *ALL-OPTICAL ANALOG COMPUTATION* (K031801); 24 MONTHS \$47,000

LEE, SING H; *ALL-OPTICAL ANALOG COMPUTATION* (K031801 001); 12 MONTHS \$3,900

KORTANEK, KENNETH O; *NUMERICAL ASPECTS OF POLLUTION ABATEMENT* (K031831*); 24 MONTHS \$20,100

REICHERT, T A; *INFORMATION STORED IN SHORT CODE SEQUENCES* (K031714); 24 MONTHS \$45,500

UNIVERSITY OF PITTSBURGH

VOGT, WILLIAM G, AND MICKLE, MARLIN H; *OPTIMAL ESTIMATION AND CONTROL OF DYNAMIC SYSTEMS* (K031817); 24 MONTHS \$60,000

RHODE ISLAND

BROWN UNIVERSITY

LASALLE, J P, AND KUSHNER, H J; *THEORY OF SYSTEMS WITH EMPHASIS ON COMPUTATIONAL PROBLEMS* (K031073 X00*); 12 MONTHS \$35,000

BOLLE, DONALD M; *THEORETICAL AND NUMERICAL INVESTIGATION OF MICROWAVE AND MILLIMETER WAVE COMPONENT STRUCTURES* (K031581); 24 MONTHS \$78,900

UNIVERSITY OF RHODE ISLAND

MOFFETT, MARK B; *RESEARCH INITIATION - PARAMETRIC SOURCES OF TRANSIENT SIGNALS* (K031861); 18 MONTHS \$19,700

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VANDERBILT UNIVERSITY

WELLS, FRANCIS M; *RESEARCH INITIATION - DISCONTINUOUS CONTROL OF ELECTRIC SPACE CONDITIONING PROCESSES* (K031708); 18 MONTHS \$16,000

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RICE UNIVERSITY

KIM, DAE M, TITTLE, FRANK K, AND RABSON, THOMAS A; *COHERENT OPTICAL DEVICES FOR COMMUNICATIONS* (K031813); 24 MONTHS \$40,000

SOUTHERN METHODIST UNIVERSITY

SAGE, ANDREW P; *SYSTEM IDENTIFICATION IN LARGE SCALE SYSTEMS* (K031449); 12 MONTHS \$35,200

TEXAS TECH UNIVERSITY

LIBERTY, STANLEY R; *RESEARCH INITIATION - STOCHASTIC LINEAR REGULATION* (K031704); 18 MONTHS \$16,000

UNIV OF TEXAS AT AUSTIN

AGGARWAL, J K; *REAL-TIME VISUAL RECOGNITION BY DIGITAL COMPUTER* (K031833 X00*); 12 MONTHS \$12,500

UNIVERSITY OF HOUSTON
ANDERSON, WALLACE L; OPTICAL PATTERN RECOGNITION (K031411); 24 MONTHS \$49,000
SHEN, LIANO-CHI; YAGI ARRAY OF DIPOLES AND YAGI ARRAY OF LOOPS (K031111); 24 MONTHS \$41,500

VIRGINIA

UNIVERSITY OF VIRGINIA
MCVEY, EUGENE B, AND PARRISH, EDWARD A; IMAGE PROCESSING FOR AUTOMATION (K031111); 24 MONTHS \$92,100

WASHINGTON

UNIVERSITY OF WASHINGTON
HARRIS, JAY H; OPTICAL THIN FILM TECHNIQUES (K016111 001); 12 MONTHS \$30,400

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON
NORDMAN, J E, PARMENTIER, R D, AND SCOTT, A C; SUPERCONDUCTIVE INFORMATION PROCESSING SYSTEMS (K011101 001); 12 MONTHS \$40,000
REDINBO, O ROBERT; RESEARCH INITIATION - OPTIMUM BLOCK AND CONVOLUTIONAL CODES (K031700); 18 MONTHS \$16,000
KIME, C R; DIAGNOSTIC SYSTEMS FOR DIGITAL NETWORKS (K033017); 24 MONTHS \$49,000
UNIVERSITY OF WISCONSIN, MILWAUKEE
DAVIDA, GEORGE I; RESEARCH INITIATION - CODING OF GRAPHS (K031700); 18 MONTHS \$16,000

SPECIAL ENGINEERING PROJECTS

CALIFORNIA

UNIVERSITY OF CALIFORNIA, BERKELEY
BARRISON, D J; STUDY OF THE HUMAN VISUAL SYSTEM (K011411); 12 MONTHS \$30,000
LEWIS, E R; THEORETICAL AND EXPERIMENTAL STUDY IN NEUROPHYSIOLOGY (K031411); 12 MONTHS \$29,800
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LYMAN, JOHN; REFLEX CONTROL FOR ARTIFICIAL LIMBS (K031700); 12 MONTHS \$36,200
UNIVERSITY OF CALIFORNIA, SAN DIEGO
ZWEIFACH, B W, AND FUNG, Y C; FLOW AND EXCHANGE IN SMALL BLOOD VESSELS (K031101 X00); 30 MONTHS \$30,000

DISTRICT OF COLUMBIA

AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES
OLIVE, JOHN R; INTERNATIONAL WORKSHOP SERIES ON BIOMEDICAL ENGINEERING (K031111 X01); 18 MONTHS \$95,500
NATIONAL ACADEMY OF ENGINEERING
BINNS, K B; APPLICATION OF TECHNOLOGY TO IMPROVE PRODUCTIVITY IN THE SERVICE SECTOR OF THE NATIONAL ECONOMY (C410111); 12 MONTHS \$29,000
NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL
CLIFFE, ROBERT A; PUBLICATION AND DISTRIBUTION OF THE PROCEEDINGS OF THE THIRTEENTH GENERAL CONGRESS OF THE INSTITUTE OF REFRIGERATION (C310105 001); \$9,200

FLORIDA

FLORIDA TECHNOLOGICAL UNIVERSITY
WANIELISTA, MARTIN P; RESEARCH INITIATION - OPERATING MODELS FOR WATER TREATMENT PLANTS (K031411); 18 MONTHS \$16,000
UNIVERSITY OF FLORIDA
HUBER, WAYNE C, AND HEANEY, JAMES P; DATA ACQUISITION AND MANAGEMENT FOR WATER QUALITY CONTROL (K031211); 12 MONTHS \$40,300
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PYATT, E E; METHODOLOGY FOR RATIONAL FLOODPLAIN MANAGEMENT (K030111); 12 MONTHS \$5,600

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY
STRAHLE, WARREN C; COMBUSTION GENERATED NOISE (K031111); 24 MONTHS \$27,900
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UNIVERSITY OF HAWAII
WATANABE, MICHAEL S; 1974 HAWAII INTERNATIONAL CONFERENCE ON SYSTEM SCIENCES (HICSS-5) (K031111); 12 MONTHS \$6,400

INDIANA

PURDUE UNIVERSITY
CROCKER, MALCOLM J; CONTROLLING THE NOISE RADIATED FROM DIESEL ENGINES (K031011); 24 MONTHS \$48,800
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SHARPE, DAVID R; RESEARCH INITIATION - DIGITAL ANALYSIS AND CATEGORIZATION OF ELECTROENCEPHALOGRAMS (K031111); 18 MONTHS \$16,000

LOUISIANA

TULANE UNIVERSITY-SCHOOL OF MEDICINE
LIU, Y KING; THE STRUCTURAL BIOMECHANICS OF THE HUMAN SPINE (K031011); 24 MONTHS \$79,900

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY
MANN, ROBERT W; ELECTROMYOGRAPHIC ACTIVATED PROSTHESIS (K031111); 24 MONTHS \$60,000
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MASSACHUSETTS SCIENCE & TECHNOLOGY FOUNDATION
BARTON, ROBERT S; TECHNOLOGY EXCHANGE (T000011 001); 12 MONTHS \$30,000

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HATFIELD, FRANK J; RESEARCH INITIATION - SIMULATION OF TRAFFIC FLOW TO MINIMIZE INDIVIDUAL TIME (K031111); 18 MONTHS \$16,000
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SINGH, TRILCHAN; RESEARCH INITIATION - EFFECT OF AMBIENT AEROSOL CONCENTRATIONS ON PARTICULATE EMISSION FROM SPARK IGNITION ENGINES (K031111); 18 MONTHS \$16,000

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UNIVERSITY OF NEW MEXICO
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AMERICAN INSTITUTE OF PHYSICS
JOHNSON, JOHN C; CONFERENCE ON ACOUSTICS AND SOCIETAL PROBLEMS (K031111); 24 MONTHS \$30,000
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LEE, ROBERT E; LATENCY TO DILATION IN THE HUMAN VISUAL SYSTEM (K031111 001); \$4,700
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MATES, ROBERT E; MODELING OF THE CARDIOVASCULAR SYSTEM (K031111); 24 MONTHS \$51,400
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STROKE, GEORGE W, PELLEGRINO, EDMUND D, GABOR, DENNIS, GOLDMARK, PETER C, AND BAUER, BEN; SONO-RADIOGRAPHY (K031111 001); 18 MONTHS \$160,000
UNIVERSITY OF ROCHESTER
DUNN, H SEARL; AUTOMOTIVE PROPULSION SYSTEM (K030011); 12 MONTHS \$31,600
DUNN, H SEARL; AUTOMOTIVE PROPULSION SYSTEM (K030011 001); \$10,100

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

EL-SHIEKH, ALY H; *SNAO BEHAVIOR OF KNIT FABRIC (K032012)*; 24 MONTHS \$60,200

OHIO

OHIO STATE UNIVERSITY

NEREM, ROBERT M; *FLUID MECHANICS PROBLEMS IN ARTERIAL DISEASE (K031026)*; 24 MONTHS \$75,700

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HOAG, LAVERNE L; *RESEARCH INITIATION - THE ROLE OF PSYCHOLOGICAL STRESS IN JOB SELECTION AND SATISFACTION (K032645)*; 18 MONTHS \$16,000

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CARNEGIE-MELLON UNIVERSITY

HUNG, TIN-KAN; *BLOOD FLOW PAST AORTIC HEART VALVES (K031514)*; 24 MONTHS \$40,000

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KLAFTER, RICHARD D; *RESEARCH INITIATION - AN OPTIMALLY ENERGIZED CARDIAC PACEMAKER (K032644)*; 18 MONTHS \$20,000

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MCCARTHY, GREGORY J; *WORKSHOP ON GLASS RESEARCH FOR THE CONTAINER INDUSTRY (K031372)*; 6 MONTHS \$1,500

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REETHOF, GERHARD; *ACOUSTICALLY ABSORBENT MATERIALS (K032384)*; 12 MONTHS \$54,200

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CARNEGIE-MELLON UNIVERSITY-CARNEGIE INSTITUTE OF TECHNOLOGY

TOLLE, JOHN E; *SENSITIVITY AND STABILITY IN TRAFFIC STREAM MOVEMENT (K031441)*; 18 MONTHS \$16,000

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TEXAS TECH UNIVERSITY

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UNIVERSITY OF VIRGINIA

DEMETSKY, MICHAEL J; *RESEARCH INITIATION - THE UTILIZATION OF URBAN PASSENGER TRANSIT SYSTEMS FOR COMMODITY TRANSPORT (K032612)*; 18 MONTHS \$16,000

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YU, JASON C, AND WILHELM, WILBERT E JR; *AIR TERMINAL OPERATION SYSTEMS BY GASP SIMULATION (K030225)*; 24 MONTHS \$76,400

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UNIVERSITY OF WASHINGTON-SCHOOL OF MEDICINE

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UNIVERSITY OF ALASKA

HESSLER, V P, AND HEACOCK, R R; *FINNISH - ALASKAN MICROPULSATION STUDIES (A032280)*; 12 MONTHS \$18,600

UNIVERSITY OF ALASKA-GEOPHYSICAL INSTITUTE

WESCOTT, EUGENE M, AND MURRAY, WALLACE B; *FIELD LINE TRACING WITH BARIUM IONS (A012285 002)*; 12 MONTHS \$40,400

SHERIDAN, ROGER; *HYDROGEN ATOM EXCITATION DURING IMPACT ON ATMOSPHERIC GASES (A032859 001)*; 12 MONTHS \$50,600

BATES, HOWARD F; *INCOHERENT SCATTER STUDIES IN THE AURORAL ZONE (A032640 001)*; 8 MONTHS \$51,200

WENDLER, GIRD; *ICE, WATER AND HEAT BALANCE OF THE MCCALL GLACIER, BROOKS RANGE, ALASKA (A028878 X01)*; 12 MONTHS \$118,900

SWIFT, DANIEL W; *MAGNETIC STORM AND POLAR SUBSTORM PHENOMENA (A028158 X01)*; 12 MONTHS \$44,800

WILSON, CHARLES R; *AUROLAL INFRASONIC WAVES (A029541 X01)*; 12 MONTHS \$71,400

OHTAKE, TAKESHI, AND JAYAWEEA, K O L F; *FALL VELOCITIES OF SOLID HYDROMETEORS (A031587)*; 24 MONTHS \$57,500

AKASOFU, AYUN-ICHI; *THE NORTH-SOUTH CHAIN OF GEOPHYSICAL STATIONS IN ALASKA (A031700)*; 12 MONTHS \$25,500

ROMICK, GERALD J; *PARTICLE PRECIPITATION AND THE TERRESTRIAL ATMOSPHERE (A031874 X00)*; 12 MONTHS \$92,600

BELON, ALBERT E; *OPTICAL OBSERVATIONS OF THE AURORAS WITH HIGH SPECTRAL AND SPATIAL RESOLUTION (A032119)*; 12 MONTHS \$20,100

HEACOCK, RICHARD R; *RELATION OF MICROPULSATIONS TO THE PLASMASPHERE, PLASMA TROUGH, AND PLASMA SHEET REGIONS (A032390)*; 12 MONTHS \$27,100

HEACOCK, RICHARD R; *RELATIONS OF MICROPULSATIONS TO THE PLASMASPHERE, PLASMA TROUGH, AND PLASMA SHEET REGIONS (A032390 001)*; 12 MONTHS \$3,500

DEGEN, VLADIMIR; *VIBRATIONAL ENHANCEMENT OF NITROGEN EMISSION IN THE QUIET HYDROGEN ARC (A032500)*; 12 MONTHS \$39,300

BROWN, NEAL B; *SUPPORT OF POKER FLAT RESEARCH FACILITY THROUGH FISCAL YEAR 1972 (A032521)*; 12 MONTHS \$100,000

BROWN, NEAL B; *SUPPORT OF POKER FLAT RESEARCH FACILITY (A032521 001)*; \$28,000

ONWUMECHILLI, A, AND AKASOFU, S-I; *RELATIONSHIPS BETWEEN THE AUROLAL AND EQUATORIAL ELECTROJETS (A032978)*; 12 MONTHS \$22,400

JAYAWEEA, K O L F, AND OHTAKE, TAKESHI; *FIELD EXPERIMENTS AT MCCALL GLACIER TO DETERMINE THE GROWTH RATE, GROWTH MODE AND BULK DENSITY OF COLUMNAR ICE CRYSTALS (A032389)*; 12 MONTHS \$40,000

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HALL, JOHN S; *SOLAR VARIATION AND ATMOSPHERIC TRANSPARENCY PROGRAM (A030687 X00)*; 12 MONTHS \$50,200

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CALIFORNIA INSTITUTE OF TECHNOLOGY

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 ZIRIN, HAROLD; RESEARCH IN CIRCULATION OF THE SOLAR ATMOSPHERE (A091015 001); 2 MONTHS \$11,300

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LESTER, PETER F; TURBULENCE ZONES IN THE LOWER TROPOSPHERE IN THE LEE OF MOUNTAINS (A031404); 12 MONTHS \$23,700

ACRAMENTO CITY COLLEGE

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 VORPAHL, JOAN; THE IMPULSIVE PHASE OF FLARES (A041587 001); 1,500

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 BATES, HOWARD F, AND HODGES, JAMES C; A PROPOSAL TO OPERATE THE NORTHERN POLAR AURORAL RADAR IN 1971-74 (A016889 01); 13 MONTHS \$53,300
 UTHE, EDWARD E; LIDAR OBSERVATIONS IN ST. LOUIS (A030445); 6 MONTHS \$24,000
 SMITH, FELIX T, AND OLSON, RONALD E; COLLISION SPECTROSCOPY IN DIATOMIC SYSTEMS (A031118); 24 MONTHS \$98,600
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DA ROSA, ALDO V; COLLECTION AND ANALYSIS OF IONOSPHERIC ELECTRON CONTENT DATA (A021101 001); 12 MONTHS \$90,700
 DA ROSA, A V; STUDY OF IONOSPHERIC STORMS (A028177 001); 12 MONTHS \$49,000
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UNIVERSITY OF CALIFORNIA, LOS ANGELES

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 SISCOE, GEORGE; SOLAR WIND STRUCTURE RESEARCH (A031814 X00); 12 MONTHS \$50,300
 PRUPPACHER, HANS R; A WIND TUNNEL INVESTIGATION OF MICROPHYSICAL PROCESSES IN ATMOSPHERIC CLOUDS AT TEMPERATURES ABOVE AND BELOW 0 DEGREES C (A032814 X00); 12 MONTHS \$53,400
 WURTELE, MORTON G; ATMOSPHERIC THERMAL VORTICES (A033317); 12 MONTHS \$17,100
 KENNEL, CHARLES F; MAGNETIC STORMS (A031148 X00); 12 MONTHS \$14,900

UNIVERSITY OF CALIFORNIA, SAN DIEGO

BOOKER, HENRY G, AND RUMSEY, VICTOR H; RADIOWAVE DIAGNOSTIC STUDIES OF THE EARTH'S PLASMA ENVIRONMENT (A020591 001); 12 MONTHS \$127,100
 SUSS, HANS E; SOLAR RELATED SECULAR VARIATION OF THE ATMOSPHERIC CARBON-14 LEVEL (A021181 001); 3 MONTHS \$3,800
 DOUPNIK, JOE R, BANKS, PETER M, AND AXFORD, W IAN; BEHAVIOR OF THERMAL PLASMA IN THE IONOSPHERE AND MAGNETOSPHERE (A036451); 12 MONTHS \$36,700
 FEJER, JULES A, BOOKER, HENRY G, AND LEWAK, GEORGE J; ROLE OF PLASMA INSTABILITIES IN IONOSPHERIC MODIFICATION BY RADIO WAVES (A030828); 12 MONTHS \$45,000
 DOUPNIK, JOE R; THE FORMATION AND DYNAMICS OF THE PLASMA-SPHERE AND PLASMAPAUSE (A033352); 12 MONTHS \$38,300

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

KEELING, CHARLES D; THE ABUNDANCE OF CARBON DIOXIDE IN THE ATMOSPHERE AND ITS EXCHANGE WITH THE OCEANS (A031324 X00); 12 MONTHS \$156,900

GIBSON, CARL H; TURBULENT MIXING OF SCALAR FLUID PROPERTIES (A031189); 12 MONTHS \$39,400

LOCKHEED AIRCRAFT CORPORATION-LOCKHEED RESEARCH LABORATORY

JOHNSON, RICHARD G; CONTRACT FOR ANALYSIS OF SATELLITE DATA ON ENERGETIC AURORAL HELIUM IONS (C679000); 24 MONTHS \$48,863

COLORADO

COLORADO STATE UNIVERSITY

RASMUSSEN, JAMES L; HYDROMETEOROLOGICAL RESEARCH (A028147 001); 12 MONTHS \$37,800

UNIVERSITY OF COLORADO

REES, MANFRED H, AND RENSE, WILLIAM A; THEORETICAL PHYSICS OF THE UPPER ATMOSPHERE (A016890 001); 24 MONTHS \$101,800
 LONDON, JULIUS; THE DISTRIBUTION OF OZONE AND THE ENERGETICS OF THE ATMOSPHERE (A028688 X01); 12 MONTHS \$45,400
 HAAS, J EUGENE; USER NEEDS AND DISSEMINATION REQUIREMENTS FOR ATMOSPHERIC INFORMATION (A031488); 12 MONTHS \$49,300
 BILLINGS, DONALD E; TEMPERATURE STRUCTURE OF THE CORONA CLOSE TO THE SUN (A031177); 24 MONTHS \$23,700
 BLUMEN, WILLIAM; STABILITY AND ENERGY PARTITION IN STRATIFIED FLUID (A031868); 24 MONTHS \$36,600
 CHIMONAS, GEORGE, EINAUDI, FRANCO, AND HOOKE, WILLIAM H; STUDY OF WAVE DYNAMICS IN THE LOWER TROPOSPHERE (A031801); 12 MONTHS \$38,200
 LAWRENCE, GEORGE M; DISSOCIATION FRAGMENT SPECTROSCOPY BY UV AND ELECTRONS (A033080); 12 MONTHS \$44,200
 BARRY, ROGER G; DOCTORAL DISSERTATION RESEARCH IN METEOROLOGY (A033177); 16 MONTHS \$900
 BEATY, EARL C; A STUDY OF SECONDARY ELECTRONS PRODUCED IN ELECTRON IMPACT IONIZATION (A033119); 24 MONTHS \$87,800
 HART, JOHN E; THE DYNAMICS OF ROTATING STRATIFIED FLUIDS (A031837); 24 MONTHS \$35,000

UNIVERSITY OF DENVER

ROEDERER, JUAN G; MAGNETOSPHERIC PARTICLE INJECTION AND TRANSFER (A031114 X00); 12 MONTHS \$35,500
 UNIVERSITY OF DENVER-DENVER RESEARCH INSTITUTE
 MURCRAY, DAVID G; DISTRIBUTION OF NITRIC ACID IN THE STRATOSPHERE (A028228 001); \$30,500
 NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION- ENVIRONMENTAL RESEARCH LABORATORIES
 HESS, WILMOT N; AERONOMICAL RESEARCH AT THE JICAMARCA RADIO OBSERVATORY (A030376); 12 MONTHS \$90,000

CONNECTICUT

CENTER FOR THE ENVIRONMENT AND MAN INC

ATWATER, MARSHALL A; EFFECTS OF POLLUTANTS ON THE ATMOSPHERIC THERMAL STRUCTURE- A NUMERICAL STUDY (A031486); 12 MONTHS \$49,300

YALE UNIVERSITY

REIFSNYDER, WILLIAM E; QUANTITY AND QUALITY OF INCIDENT LIGHT IN FOREST SUNFLECKS (A015017 001); 6 MONTHS \$2,800
 WALKER, JAMES C G, AND WICKWAR, VINCENT B; EXPERIMENTAL STUDIES USING THE INCOHERENT BACKSCATTER AT COLLEGE, ALASKA (A033384); 12 MONTHS \$10,200
 HERZBERG, ARVID; THEORY OF ATMOSPHERIC COLLISION PROCESSES (A031118); 12 MONTHS \$33,000

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (04AWDS); \$16,258

CATHOLIC UNIVERSITY OF AMERICA

WHANG, Y C; MAGNETOHYDRODYNAMIC STRUCTURE OF THE SOLAR WIND (A029057 X01); 12 MONTHS \$28,600
 CHANG, C C; DYNAMICS OF ATMOSPHERIC VORTICES - TORNADO, DUST WHIRLS, AND WATERSPOUTS (A032017); 24 MONTHS \$60,400

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

HAYES, R V; 1974 CHURCHILL SKYHOOK PROGRAM (AG00217 001); 12 MONTHS \$85,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

SIEVERS, JOHN R; COMMITTEE ON ATMOSPHERIC SCIENCES (C310008 016); 12 MONTHS \$17,900
 ODISHAW, HUGH; SUPPORT OF THE GEOPHYSICS RESEARCH BOARD AND ITS AFFILIATES (C310048 009*); 12 MONTHS \$103,825

FLORIDA

EDWARD WATERS COLLEGE

GANGULI, GOURANOA; COMPARISON OF TECHNIQUES FOR MEASURING TRACE SPECIES IN THE ATMOSPHERE (A031142); 15 MONTHS \$21,400

FLORIDA STATE UNIVERSITY

STEPHENS, JESSE J; TRANSCIENT SCATTERING BY HYDROMETEORS (A030944); 12 MONTHS \$20,000

UNIVERSITY OF FLORIDA

GREEN, ALEX E S; ATMOSPHERIC RADIATIVE TRANSFER AND ATMOSPHERIC PHYSICS (A024436 001); 12 MONTHS \$42,000

UMAN, MARTIN A; THE CALCULATION OF LIGHTNING RETURN STROKE CURRENTS OVER LAND AND WATER FROM MEASURED ELECTRIC FIELDS (A031176); 12 MONTHS \$39,100

UNIVERSITY OF MIAMI-SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES

LHERMITTE, ROGER M; DUAL-DOPPLER RADAR PROBINO (A028443 X01); 12 MONTHS \$74,900

WENZEL, ALAN R; WAVE PROPAGATION IN RANDOM MEDIA (A031381); 24 MONTHS \$43,600

KRAUS, ERIC B; OCEAN-ATMOSPHERE INTERACTION (A033550 X00); 12 MONTHS \$79,800

GEORGIA

CLARK COLLEGE

KIANG, C S; NUCLEATION THEORY AND ITS APPLICATIONS (A024402); 6 MONTHS \$7,200

KIANG, C S, AND WALKER, G H; STUDY OF NUCLEATION THEORY (A033482); 24 MONTHS \$63,100

GEORGIA INSTITUTE OF TECHNOLOGY

ROPER, R G; WIND IN THE 80-100 KILOMETER REGION (A028428 001); 24 MONTHS \$65,800

HAWAII

UNIVERSITY OF HAWAII

STEIGER, WALTER R; DYNAMICS AND MAINTENANCE OF THE NIGHTTIME IONOSPHERE AT HAWAII (A018876 001); 12 MONTHS \$35,300

ROELOFS, T H, AND YUEN, PAUL C; IONOSPHERE STUDIES USING TOTAL ELECTRON CONTENT (A017330 001); 12 MONTHS \$62,000

YUEN, PAUL C, NAJITA, KAZUTOSHI, AND FANG, GAUTIER T; CAUSES OF IONOSPHERIC VARIATIONS (A034441 001); 7 MONTHS \$22,200

MCCABE, MARIE K, AND ZIRKER, J B; SOLAR CORONAL ACTIVITY (A033903 001); 12 MONTHS \$52,200

WOLSTENCROFT, R D; NIGHT-SKY OBSERVATIONS (A028901 001); 12 MONTHS \$40,000

TAKAHASHI, TSUTOMU; SIMULTANEOUS OBSERVATION OF THE IN CLOUD ELECTRICAL CHARGE ON IONS, CLOUD DROPLETS AND RAIN-DROPS (A030977); 24 MONTHS \$108,500

ILLINOIS

UNIVERSITY OF CHICAGO

ATLAS, DAVID, AND SRIVASTAVA, R C; DOPPLER RADAR STUDIES OF STRATIFORM PRECIPITATION (A027480 X01); 12 MONTHS \$83,600

SIMPSON, JOHN A; SOLAR, INTERPLANETARY AND MAGNETOSPHERIC STUDIES WITH ENERGETIC PARTICLES (A028348 X01); 12 MONTHS \$159,600

MEYER, PETER; PROPAGATION, MODULATION AND ACCELERATION OF ELECTRONS AND NUCLEI IN THE SOLAR SYSTEM (A031787 X00); 12 MONTHS \$83,900

UNIVERSITY OF ILLINOIS AT URBANA

YEH, K C, AND LIU, C H; STUDY OF CERTAIN IONOSPHERIC WAVE PROPAGATION PROBLEMS (A013724 001); 12 MONTHS \$26,700

BOWHILL, SIDNEY A; STUDY OF PRODUCTION AND LOSS PROCESSES FOR ATMOSPHERIC IONIZATION (A035480 001); 12 MONTHS \$57,500

BOWHILL, S A; STUDIES OF IONOSPHERIC DYNAMICS BY THOMSON SCATTER (A027283 001); 12 MONTHS \$64,900

SHER, MICHAEL S, AND OGURA, MASAKO; EFFICIENCY OF ILLIAC IV COMPUTER IN ATMOSPHERIC DYNAMICS CALCULATIONS (A031407); 12 MONTHS \$43,200

MAX, MAN-KIN; THEORETICAL STUDIES ON GENERAL PLANETARY BOUNDARY LAYERS (A031143); 12 MONTHS \$20,500

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

WINKLER, ROBERT L; PROBABILISTIC PREDICTION IN METEOROLOGY (A017725); 24 MONTHS \$30,500

PURDUE UNIVERSITY

SMITH, PHILLIP, AND VINCENT, DAYTON; THE ENERGETICS OF OPEN ATMOSPHERIC SYSTEMS (A019933 001); 12 MONTHS \$61,500

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

STANFORD, JOHN L; ELECTROMAGNETIC STUDIES OF SEVERE CONVECTIVE STORMS (A031776); 24 MONTHS \$92,700

UNIVERSITY OF IOWA

JOYCE, GLENN, AND SHAWHAN, STANLEY D; NUMERICAL INVESTIGATION OF PLASMAS (A031876); 12 MONTHS \$24,900

KANSAS

UNIVERSITY OF KANSAS

BEARD, DAVID B; THE EXTERNAL GEOMAGNETIC FIELD AND MAGNETOSPHERIC PHENOMENA (A014089 001); 12 MONTHS \$41,700

MARYLAND

APPLIED PHYSICS LABORATORY

KRIMIGIS, S M; STUDIES OF MULTIPLE-CHARGED ENERGETIC TRAPPED NUCLEI IN THE RADIATION BELT (A030841); 24 MONTHS \$77,500

ATOMIC ENERGY COMMISSION

COX, ARTHUR N; TOTAL SOLAR ECLIPSE, JULY 10, 1978 (A006317); 8 MONTHS \$12,000

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

TOVNSEND, J W; IONOSPHERIC STUDIES AT JICAMARCA RADIO OBSERVATORY (A000819 003); 12 MONTHS \$25,900

UNIVERSITY OF MARYLAND, COLLEGE PARK

LANDSBERG, H E; CLIMATIC CHANGES THROUGH URBANIZATION (A01394 X01); 12 MONTHS \$38,800

MASSACHUSETTS

HARVARD UNIVERSITY

GOODY, RICHARD; ATMOSPHERIC PHYSICS AND DYNAMICS (A033990 X00); 12 MONTHS \$206,300

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

STARR, VICTOR P; OBSERVATIONAL AND THEORETICAL STUDIES OF PLANETARY ATMOSPHERES (A001110 X03); 12 MONTHS \$194,400

SANDERS, FREDERICK; ANALYSIS OF SUBSYNOPTIC-SCALE PROCESSES IN EXTRATROPICAL CYCLONES AND THEIR RELATIONSHIP TO THE LARGER-SCALE CIRCULATION (A027908 X01); 12 MONTHS \$78,500

STARR, VICTOR P; OBSERVATIONAL STUDIES OF THE MOTION AND DYNAMICS OF THE JOVIAN ATMOSPHERE (A028387 001); 12 MONTHS \$42,900

MOLLO-CHRISTENSEN, ERIK; THE DYNAMICS OF AIR-SEA INTERACTION (A028622 X01); 12 MONTHS \$77,400

BEARDSLEY, ROBERT C; EXPERIMENTAL RESEARCH IN GEOPHYSICAL FLUID DYNAMICS (A030415); 24 MONTHS \$70,700

MALKUS, WILLIAM V R; GEOPHYSICAL FLUID DYNAMICS (A033333); 24 MONTHS \$60,900

EVANS, JOHN V; DESIGN STUDIES FOR AN UPPER ATMOSPHERE OBSERVATORY (A033902); 12 MONTHS \$181,600

UNIVERSITY OF MASSACHUSETTS, AMHERST

GOLDENBERG, H MARK; MEASUREMENT OF THE SOLAR OBLATENESS (A028043 001); \$5,600

HARVARD UNIVERSITY-OBSERVATORY

DALGARNO, A; METASTABLE OXYGEN ATOMS IN THE MESOSPHERE AND STRATOSPHERE (A030181); 12 MONTHS \$22,100

MICHIGAN

UNIVERSITY OF MICHIGAN

EPSTEIN, EDWARD S; STOCHASTIC DYNAMIC PREDICTION (A019248 001); 4 MONTHS \$28,000

HAYS, PAUL B, AND NAGY, ANDREW F; EXPERIMENTAL AND THEORETICAL AIRGLOW STUDIES (A028690 X01); \$15,400

HAYS, PAUL B, AND NAGY, ANDREW F; EXPERIMENTAL AND THEORETICAL AIRGLOW STUDIES (A028690 X02); 12 MONTHS \$70,000

JONES, LESLIE M, AND BARTMAN, FREDERICK L; THE ATMOSPHERIC INFORMATION CONTENT OF AIRCRAFT SOUND (A031886); 12 MONTHS \$22,500

MISSOURI

UNIVERSITY OF MISSOURI, ROLLA

STAMPFER, JOSEPH F JR; THE EFFECTS AND AMOUNTS OF SURFACE ACTIVE MATERIALS IN THE ATMOSPHERE (A001809 001); 24 MONTHS \$77,100

LEVENSON, LEONARD L; WATER VAPOR-SURFACE REACTIONS, DYNAMIC AND STEADY STATE STUDIES WITH MOLECULAR BEAMS AND QUARTZ CRYSTAL MICROBALANCES (A018948 001); 12 MONTHS \$29,800

KASSNER, JAMES L JR; EXPERIMENTAL AND THEORETICAL STUDIES OF NUCLEATION PHENOMENA (A028711 X01); 12 MONTHS \$62,500

ALOYS, DARRYL J. QUANTITATIVE STUDIES OF THE NUCLEATION PROCESS (A030276); 24 MONTHS \$59,800
 PLUMMER, PATRICIA L. M. HALE, BARBARA N. AND LUND, LOUIS H.; THE HOMOGENEOUS NUCLEATION OF WATER FROM A SUPERSATURATED VAPOR (A030386); 24 MONTHS \$40,500

WASHINGTON UNIVERSITY

GARDNER, RICHARD A.; URBAN MICROMETEOROLOGY- THE ROLE OF THE URBAN HEAT ISLAND IN THE AIR POLLUTION EPISODE (A030789); 18 MONTHS \$20,000

NEVADA

DESERT RESEARCH INSTITUTE

TELFORD, JAMES W.; AIRBORNE INVESTIGATIONS OF THE STRUCTURE OF ATMOSPHERIC CONVECTION AND BOUNDARY LAYER TRANSFERS (A030698 X00); 18 MONTHS \$170,000

NEW HAMPSHIRE

DARTMOUTH COLLEGE

STROHBEHN, JOHN W.; ELECTROMAGNETIC WAVE PROPAGATION IN THE ATMOSPHERE (A031482); 24 MONTHS \$104,400

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

FROST, ALBERT D.; TO CONDUCT RESEARCH AT THE UNIVERSITY OF SHEFFIELD (ENGLAND) DURING THE PERIOD SEPTEMBER 1, 1971 TO JULY 1, 1974 (A030334); 18 MONTHS \$545

KAUFMANN, RICHARD L.; MAGNETOHYDRODYNAMIC WAVES NEAR THE MAGNETOPAUSE (A030501 X00); 12 MONTHS \$25,100

LOCKWOOD, JOHN A.; INTENSITY-TIME VARIATIONS IN THE COSMIC RADIATION (A031771 X00); 12 MONTHS \$39,400

LOCKWOOD, JOHN A.; MEASUREMENTS OF THE NEUTRON AND GAMMA-RAY INTENSITY IN THE ATMOSPHERE (A030858); 24 MONTHS \$95,900

NEW JERSEY

PRINCETON UNIVERSITY

MELLOR, GEORGE L. AND SMAGORINSKY, JOSEPH; RESEARCH IN GEOPHYSICAL FLUID DYNAMICS (A014334 001); 24 MONTHS \$60,700

RUTGERS UNIVERSITY

PESKIN, RICHARD L.; TURBULENCE AND TURBULENT DIFFUSION IN STRATIFIED FLOW (A030481); 24 MONTHS \$60,000

NEW MEXICO

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

BROOK, MARK; THUNDERSTORM ELECTRIFICATION (A030491 X00); 12 MONTHS \$76,300

UNIVERSITY OF NEW MEXICO

REGENER, VICTOR H. AND SWINSON, DEREK B.; INVESTIGATION OF COSMIC RAY ANISOTROPIES IN INTERPLANETARY SPACE USING UNDERGROUND COSMIC RAY DETECTORS (A030591); 24 MONTHS \$41,400

NEW YORK

CLARKSON COLLEGE OF TECHNOLOGY

NEWELL, ALLAN; NONLINEAR PROCESSES IN GEOPHYSICAL FLUID DYNAMICS (A031717 001); 24 MONTHS \$58,200

CORNELL UNIVERSITY

FARLEY, DONALD T.; STUDIES OF THE EQUATORIAL IONOSPHERE AND MAGNETOSPHERE (A004330 001); 12 MONTHS \$32,600

BRICE, NEIL; STUDIES OF MAGNETOSPHERIC RESEARCH (A011415 001); 12 MONTHS \$49,900

SAGAN, CARL; INVESTIGATIONS OF THE ATMOSPHERES OF VENUS AND JUPITER (A030815 001); 12 MONTHS \$38,600

AUER, P. L. AND MORSE, D. L.; LABORATORY SIMULATION OF PARTICLE THERMALIZATION IN THE EARTH'S BOW SHOCK (A031173); 12 MONTHS \$50,900

NEW YORK UNIVERSITY

FRIEND, JAMES, AND LEIFER, ROBERT; FORMATION OF STRATOSPHERIC CONDENSATION NUCLEI (A030985); 12 MONTHS \$49,900

STATE UNIVERSITY AT ALBANY

ORVILLE, RICHARD E.; QUANTITATIVE STUDY OF LIGHTNING (A011048 001); 4 MONTHS \$14,600

MOHREN, VOLKER A.; ION MOLECULE REACTIONS OF ATMOSPHERIC IMPORTANCE (A030760 001); 12 MONTHS \$46,200

BLANCHARD, DUNCAN C.; MECHANISM FOR THE CONCENTRATION OF BACTERIA IN JET AND FILM DROPS (A031113 001); 12 MONTHS \$29,200

CHESSIN, HENRY; ATMOSPHERIC AEROSOL ANALYSIS BY X-RAY SPECTROMETRIC TECHNIQUES (A031003); 24 MONTHS \$44,200

ARNASON, GEIRMUNDUR; NUMERICAL SIMULATION OF THE MICROPHYSICAL AND MACROPHYSICAL PROCESSES OF MOIST CONVECTION (A030830 X00); 12 MONTHS \$58,700

SCHAEFER, VINCENT J. AND HOGAN, AUSTIN W.; AEROSOL CONCENTRATIONS ON A GLOBAL SCALE (A030502*); 12 MONTHS \$25,000

UNIVERSITY OF ROCHESTER

BADHWAR, GAUTAM; RESEARCH IN COSMIC RAY PHYSICS (A031140); 12 MONTHS \$6,900

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL

OBSERVATORY
 HERRON, THOMAS J.; IONOSPHERIC MOTIONS (A030480); 24 MONTHS \$50,100

DONN, WILLIAM L.; WAVES IN THE NEUTRAL AND IONIZED ATMOSPHERE (A030710 X00); 12 MONTHS \$75,500

NORTH CAROLINA

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

RIPPERTON, LYMAN A.; CHEMICAL AND ENVIRONMENTAL FACTORS AFFECTING OZONE CONCENTRATION IN THE LOWER TROPOSPHERE (A014875 001); 12 MONTHS \$60,000

OHIO

CASE WESTERN RESERVE UNIVERSITY

TANENBAUM, B. SAMUEL; RESEARCH ON IONOSPHERIC PHYSICS (A010717 001); 24 MONTHS \$103,000

FRYE, GLENN M. JR.; ATMOSPHERIC HIGH ENERGY NEUTRONS (A030933 001); 12 MONTHS \$133,700

JANOWITZ, GERALD S.; THE FLOW OF STABLY STRATIFIED FLUIDS OVER OBSTACLES (A031889); 24 MONTHS \$30,100

OREGON

OREGON STATE UNIVERSITY

ELLIOTT, WILLIAM P.; PRECIPITATION PROCESSES IN WESTERN OREGON (A031141); 24 MONTHS \$124,300

PETERSON, ERNEST W.; COMPUTER MODELING OF FLOW OVER INHOMOGENEOUS TERRAIN (A031889); 24 MONTHS \$34,000

HEWSON, E. WENDELL, AND GAY, LLOYD; DOCTORAL DISSERTATION RESEARCH IN THE ENVIRONMENTAL SCIENCES (A031743*); 12 MONTHS \$500

PENNSYLVANIA

LAVOIE, RONALD L.; OTHER PROGRAM AWARDS (OIAWDS); 14 MONTHS \$37,900

DREXEL UNIVERSITY

COONEY, JOHN A.; LASER RADAR (LIDAR) RESEARCH FOR MEASURING ATMOSPHERIC WATER VAPOR PROFILES (A031881); 12 MONTHS \$40,000

PENNSYLVANIA STATE UNIVERSITY

PANOFSKY, HANS A. AND BLACKADAR, ALFRED K.; ENERGETICS AND INTERACTIONS OF ATMOSPHERIC MOTION (A001393 X01); 12 MONTHS \$99,900

HEICKLEN, JULIAN P. AND SIMONAITIS, ROMUALDAS; CHEMICAL REACTIONS OF IMPORTANCE IN THE EARTH'S AND PLANETARY ATMOSPHERES (A014383 001); 24 MONTHS \$99,900

FERRARO, A. J. AND LEE, H. S.; D-REGION STUDIES AT MID-LATITUDE BY MEANS OF WAVE INTERACTION (A013883 001); 24 MONTHS \$100,000

HAGEN, JOHN P.; MULTI-FREQUENCY SOLAR OBSERVATIONAL PROGRAM (A030812 001); 12 MONTHS \$50,100

HOVERMALE, JOHN B. AND CAHIR, JOHN J.; WEATHER PRODUCING CIRCULATIONS OF SUBSYNOPTIC SCALES (A030850); 12 MONTHS \$30,900

NISBET, JOHN S.; IONOSPHERIC INVESTIGATIONS (A031140 X00); 12 MONTHS \$56,400

UNIVERSITY OF PENNSYLVANIA

FRIEDMAN, IRVING; STABLE ISOTOPES IN RAINDROPS- GEOCHEMISTRY AND METEOROLOGY (A030860); 24 MONTHS \$28,200

UNIVERSITY OF PITTSBURGH

DONAHUE, T. M.; AIRGLOW AND AURORAS IN PLANETARY ATMOSPHERES (A030738 001); 12 MONTHS \$119,900

SHEMANSKY, DONALD E.; LABORATORY STUDY OF THE NITROGEN AFTERGLOW (A030881 001); 12 MONTHS \$34,300

FRANKLIN INSTITUTE-BARTOL RESEARCH FOUNDATION

POMERANTZ, MARTIN A.; SOLAR-TERRRESTRIAL RELATIONSHIPS MANIFESTED BY COSMIC RAY VARIATIONS (A030351); 12 MONTHS \$75,000

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

DUCE, ROBERT A.; LEAD AND GASEOUS IODINE AND BROMINE IN POLLUTED AIR (A031818); 24 MONTHS \$60,300

TENNESSEE

SOUTHWESTERN AT MEMPHIS

STREETE, J. L.; MEASUREMENT OF INTENSITY RATIOS OF INFRARED EMISSION LINES OF HELIUM IN SOLAR PROMINENCES (A630815); 12 MONTHS \$12,700

UNIVERSITY OF TENNESSEE, KNOXVILLE

FOX, KENNETH; COLLABORATIVE RESEARCH IN ULTRA-LONG PATH, HIGH RESOLUTION MOLECULAR SPECTROSCOPY (A630715); 12 MONTHS \$30,200

TEXAS

RICE UNIVERSITY

WOLF, R. A. AND DESSLER, A. J.; MAGNETOSPHERIC CONVECTION (A637206 001); 24 MONTHS \$85,400

MICHEL, F. CURTIS, AND CLOUTIER, PAUL A.; THEORETICAL STUDY OF THE INTERACTION OF THE SOLAR WIND WITH PLANETARY ATMOSPHERES (A638033 X01); 12 MONTHS \$19,400

FEW, ARTHUR A. JR.; CHANNEL STRUCTURE AND ELECTRIC CHARGE STORAGE IN THUNDERSTORM CLOUDS LIGHTNING (A631951); 24 MONTHS \$106,700

TEXAS A & M UNIVERSITY

THOMPSON, AYLMEY H.; INVERSION FORMATION, MAINTENANCE, AND BREAKDOWN PROCESSES OVER NORTHWEST NORTH AMERICA (A630619); 15 MONTHS \$29,100

BYERS, HORACE R. AND DAS, PHANINDRAMOHAN; MICRODYNAMICS OF WARM CUMULUS CONGESTUS (A633319); 12 MONTHS \$31,100

UNIV OF TEXAS AT AUSTIN

CLARK, JOHN H. E.; DYNAMICS OF THE STRATOSPHERE (A631108); 24 MONTHS \$14,200

UNIV OF TEXAS AT DALLAS

PALMEIRA, R. A. R.; DALLAS AND CHURCHILL SUPER NEUTRON MONITOR STATIONS (A638962 001); 12 MONTHS \$43,000

HANSON, W. B. AND MCCLURE, J. P.; OGO VI HIGH RESOLUTION ION TRAP STUDIES OF IONOSPHERIC IRREGULARITIES (A631318); 24 MONTHS \$100,000

TINSLEY, BRIAN A. AND CHRISTENSEN, ANDREW B.; TROPICAL MID AND HIGH LATITUDE STUDIES OF SELECTED AIRGLOW EMISSIONS (A633362 X00); 12 MONTHS \$50,600

UTAH

UNIVERSITY OF UTAH

KETCHAM, WARREN M.; CLOUD DROPLET SIZE DISTRIBUTION USING OPTICAL CHARACTER RECOGNITION TECHNIQUES (A631164); 12 MONTHS \$29,000

UTAH STATE UNIVERSITY

DESPAIN, ALVIN M. AND BAKER, KAY D.; STUDY OF INFRARED AURORAS (A619132 001); \$5,000

MEGILL, LAWRENCE R.; STUDY OF MESOSPHERIC TRACE CONSTITUENTS WITH ROCKET PROBES (A633894 001); 12 MONTHS \$29,400

MEGILL, LAWRENCE R.; STUDY OF MESOSPHERIC TRACE CONSTITUENTS WITH ROCKET PROBES (A633894 002); \$6,000

WASHINGTON

UNIVERSITY OF WASHINGTON

VALLI, VICTOR, AND GOLDSTEIN, RAYMOND; COLLABORATIVE RESEARCH IN ULTRA-LONG PATH, HIGH RESOLUTION MOLECULAR SPECTROSCOPY (A630714); 12 MONTHS \$42,500

VALLI, VICTOR, AND GOLDSTEIN, RAYMOND; ULTRA-LONG PATH, HIGH RESOLUTION MOLECULAR SPECTROSCOPY (A630714 001); \$6,500

BUSINGER, J. A. AND FLEAGLE, R. G.; COMPREHENSIVE STUDY OF THE STRUCTURE OF THE PLANETARY BOUNDARY LAYER (A631317 X00); 12 MONTHS \$132,100

CLARK, KENNETH C.; UPPER ATMOSPHERE EXCITATION (A633392 X00); 12 MONTHS \$56,800

PARKS, GEORGE K.; AURORAL BREMSSTRAHLUNG X-RAYS FROM CONJUGATE REGION OF THE GEOSTATIONARY SATELLITE (A633021 X00); 12 MONTHS \$64,100

PARKS, GEORGE K. AND WINCKLER, JOHN R.; ANALYSIS OF BALLOON X-RAY DATA OBTAINED FROM ATS-1 AURORAL CONJUGATE (A632719); 12 MONTHS \$19,300

HODGE, PAUL W. AND CHARLSON, ROBERT J.; ASTRONOMICAL AND SPACE TECHNIQUES FOR RESEARCH ON THE ATMOSPHERE (A631116); 24 MONTHS \$100,000

WASHINGTON STATE UNIVERSITY

CRAINE, LLOYD B.; INFRA-SONIC WAVES IN THE ATMOSPHERE PACIFIC NORTHWEST (A632176 001); 6 MONTHS \$3,700

HOWER, GLEN L. AND SCHRADER, DAVID H.; COORDINATED STUDY OF THE LOWER IONOSPHERIC REGIONS (A631913); 12 MONTHS \$32,700

BATTELLE MEMORIAL INSTITUTE-BATTELLE NORTHWEST

HOCH, RICHMOND J.; CONNECTION BETWEEN THE MAGNETOSPHERE AND SAR-ARCS (A631461); 12 MONTHS \$34,900

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

KUTZBACH, JOHN E. AND BRYSON, REID A.; INTERDISCIPLINARY RESEARCH PROGRAM IN CLIMATOLOGY (A610661 X02); 16 MONTHS \$180,000

WAHL, EBERHARD W.; DYNAMIC - CLIMATOLOGICAL STUDIES OF HEMISPHERIC CIRCULATION PARAMETERS (A611806 001); 12 MONTHS \$53,400

ROESLER, F. L.; HIGH-RESOLUTION SPECTROSCOPIC STUDIES IN AERONOMY (A615113 001); 12 MONTHS \$35,500

BIRKEMEIER, WILLIAM P., LETTAU, HEINZ H., FONTAINE, ARTHUR B. AND SECHRIST, F. S.; MICROWAVE TROPOSCATTER PROBING OF THE ATMOSPHERE (A616818 002); 12 MONTHS \$67,000

JOHNSON, DONALD R. AND HORN, LYLE H.; ENERGY, MASS AND ANGULAR MOMENTUM BUDGETS OF EXTRATROPICAL CYCLONES (A630978 X00); 12 MONTHS \$129,900

MCCLINTOCK, MICHAEL, AND HOUGHTON, DAVID; NUMERICAL MODELING OF ATMOSPHERIC CIRCULATION CHANGES CAUSED BY AIR POLLUTION (A631118); 12 MONTHS \$41,700

WEINMAN, JAMES A.; RADIATIVE AND PHOTO CHEMICAL PROPERTIES OF STRATOSPHERIC CONSTITUENTS (A631562); 24 MONTHS \$41,800

WYOMING

UNIVERSITY OF WYOMING

HOFMANN, DAVID J.; MODULATION OF SOLAR COSMIC RAYS DURING GEOMAGNETIC STORMS (A614917 003); 4 MONTHS \$6,800

EARTH SCIENCES

ALASKA

UNIVERSITY OF ALASKA-GEOPHYSICAL INSTITUTE

OSTERKAMP, T. E. AND JENSON, C. S.; EFFECTS OF ICE FORMATION ON AN ALASKAN STREAM (A630742); 12 MONTHS \$34,900

PULPAN, HANS, AND BERG, EDUARD; SEISMIC ENGINEERING STUDIES IN ALASKA (A631945); 24 MONTHS \$21,500

ARIZONA

ARIZONA STATE UNIVERSITY

MOORE, CARLETON B.; ANALYSIS OF SELECTED ELEMENTS IN METEORITES AND RELATED TERRESTRIAL ROCKS (A631297 X00); 12 MONTHS \$31,400

HOLLOWAY, JOHN R.; INVESTIGATIONS OF C-H-O-N FLUIDS AT HIGH PRESSURES AND TEMPERATURES WITH APPLICATION TO EXPERIMENTAL PETROLOGY (A631142); 24 MONTHS \$33,900

UNIVERSITY OF ARIZONA

DAMON, PAUL E.; CARBON-14 FLUCTUATIONS IN THE ENVIRONMENT OF EARTH AND ATMOSPHERE (A617495 001); 24 MONTHS \$40,000

DAMON, PAUL E.; CORRELATION AND CHRONOLOGY OF ORE DEPOSITS AND VOLCANIC ROCKS (A631120); 24 MONTHS \$70,100

DAMON, PAUL E. AND LIVINGSTON, DONALD E.; GEOCHEMICAL DATING OF PRECAMBRIAN ROCKS IN SOUTHWESTERN UNITED STATES AND MEXICO (A631418); 12 MONTHS \$28,300

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

ANDERSON, DON L.; STUDY OF THE ELASTIC AND ANELASTIC PROPERTIES OF ROCKS AND ROCK-FORMING MINERALS AT HIGH TEMPERATURE AND HIGH PRESSURE (A612704 001); 24 MONTHS \$100,000

ALBEE, ARDEN L.; CHEMICAL EQUILIBRIUM IN COEXISTING PHASES OF QUARTZ-MUSCOVITE ROCK (A612687 001); 24 MONTHS \$109,700

SILVER, LEON T.; FIELD AND ISOTOPIC STUDIES OF THE OLDER GEOLOGIC HISTORY OF THE SOUTHWESTERN MARGIN OF NORTH AMERICA (A615349 001); 8 MONTHS \$58,000

TAYLOR, RUGH P. JR.; OXYGEN AND HYDROGEN ISOTOPE STUDIES OF ROCKS AND MINERALS (A630997 X00); 12 MONTHS \$49,800

EPSTEIN, SAMUEL; OXYGEN, HYDROGEN, CARBON AND SILICON ISOTOPE STUDIES OF NATURALLY OCCURRING MATERIALS (A631325 X00); 12 MONTHS \$67,100

WASSERBURG, G. J. AND ALBEE, A. L.; GEOCHRONOLOGY AND ABUNDANCE OF RARE GASES IN NATURE (A631749); 24 MONTHS \$80,800

AHRENS, THOMAS J.; GEOPHYSICAL LIGHT GAS GUN (A631107); 12 MONTHS \$67,300

PATTERSON, CLAIR C.; BIOLOGICAL DISCRIMINATION FACTORS FOR METALS WITHIN NATURAL ECOSYSTEMS (B631038); 12 MONTHS \$18,000

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

COLBURN, IVAN P.; ANALYSIS OF PALEOCURRENT FRAMEWORK OF CRETACEOUS TURBIDITES IN CALIFORNIA (A612860); \$1,562

COLBURN, IVAN P.; ANALYSIS OF THE PALEOCURRENT FRAMEWORK OF THE CALIFORNIA CRETACEOUS TURBIDITE TERRANE AND ITS BEARING ON IMPORTANT GEOLOGIC HYPOTHESES (A612860 001); 12 MONTHS \$11,188

EARTHQUAKE TECTONICS INC

BLOXSON, DANIEL E JR; *FIELD MEASUREMENTS OF EMBRYONIC EARTHQUAKES* (A031049); 3 MONTHS \$12,900

STANFORD UNIVERSITY

LUTH, W C, AND JAHNS, R H; *THE GRANITIC ROCKS* (A001684 004); 24 MONTHS \$110,000

COX, ALLAN V; *EFFECT OF COSMIC RAY EXPOSURE ON MAGNETIC PROPERTIES OF METEORITES AND LUNAR SAMPLES* (A030883); 24 MONTHS \$49,000

CLAERBOUT, JON F; *NUMERICAL MODELING OF GEOMAGNETIC FIELD GENERATION* (A030714); 12 MONTHS \$17,200

LONGWELL, CHESTER R; *GEOLOGICAL STUDY OF HENDERSON QUADRANGLE AND EASTERN PART OF LAS VEGAS QUADRANGLE* (A031800); 6 MONTHS \$4,100

UNIVERSITY OF CALIFORNIA, BERKELEY

VERHOOGEN, JOHN; *THE EARTH'S CORE* (A001684 002); 24 MONTHS \$36,000

BOLT, BRUCE A; *INFERENCES ON THE EARTH'S INTERIOR* (A001101 001); 24 MONTHS \$90,000

HELGESON, HAROLD C; *PREDICTION OF MASS TRANSFER IN GEOCHEMICAL PROCESSES INVOLVING AQUEOUS SOLUTIONS* (A035311 001); \$30,000

HELGESON, HAROLD C; *PRACTICAL APPLICATIONS OF THEORETICAL GEOCHEMISTRY TO GEOLOGIC PROBLEMS* (A030578); 12 MONTHS \$9,900

MORRISON, H FRANK; *THE USE OF VLF FIELDS IN GEOLOGICAL MAPPING* (A030465); 12 MONTHS \$9,900

CARMICHAEL, IAN S E; *STUDIES IN IGNEOUS PETROLOGY* (A032445 X00); 12 MONTHS \$26,100

UNIVERSITY OF CALIFORNIA, DAVIS

MOORES, ELDRIDGE M; *EMPLACEMENT OF FRANCISCAN-TYPE ROCKS AND ORIGIN OF RELATED MAFIC AND ULTRAMAFIC ROCKS* (A014288 001); 12 MONTHS \$15,000

GREEN, HARRY W II, AND RADCLIFFE, S VICTOR; *HIGH VOLTAGE TRANSMISSION ELECTRON MICROSCOPY STUDY OF THE DEFORMATION OF ROCK-FORMING MINERALS* (A031355); 24 MONTHS \$77,400

UNIVERSITY OF CALIFORNIA, LOS ANGELES

KAULA, WILLIAM M, AND SCHUBERT, GERALD; *THEORY OF MOTIONS IN THE EARTH'S MANTLE* (A010984 001); 24 MONTHS \$48,800

SCHOFF, J WILLIAM; *MORPHOLOGIC AND GEOCHEMICAL STUDIES OF PRIMITIVE MICROORGANISMS* (A034751 001); 12 MONTHS \$27,200

SHREVE, RONALD L; *GLACIER HYDRAULICS* (A030731); 24 MONTHS \$29,000

RUMBLE, DOUGLAS III; *THERMODYNAMIC PROPERTIES OF THE FLUID PHASE OF REGIONAL METAMORPHISM* (A031808); 24 MONTHS \$33,100

KNOPOFF, LEON; *SURFACE WAVE AND FREE MODE ANALYSIS AND INTERPRETATION* (A031878); 12 MONTHS \$61,300

KENNEDY, GEORGE C, AND KIEFFER, SUSAN; *THERMAL CONDUCTIVITY OF SOLIDS AT HIGH PRESSURE* (A031897); 12 MONTHS \$60,500

WASSON, JOHN T; *ORIGIN AND COMPOSITION OF METEORITIC AND TERRESTRIAL SAMPLES* (A03204 X00); 12 MONTHS \$37,900

DOLLASE, WAYNE A, AND ERNST, W G; *MOSSBAUER AND CRYSTAL STRUCTURE ANALYSES OF NATURAL AND SYNTHETIC ROCK-FORMING MINERALS* (A032168); 24 MONTHS \$42,800

KNOPOFF, LEON; *STOCHASTIC SEISMOLOGY* (A031477); 24 MONTHS \$18,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

GILBERT, FREEMAN, AND HAUBRICH, RICHARD A; *OBSERVATIONS OF THE EARTH'S FREE MODES* (A015924 001); 12 MONTHS \$60,000

LOVBERG, RALPH H, BERGER, JONATHAN, AND BRUNE, JAMES N; *FIELD DEPLOYMENT OF LASER STRAIN METER* (A025700 001); 12 MONTHS \$60,900

BRUNE, JAMES N, AND GILBERT, FREEMAN; *EARTH STRUCTURE AND EARTHQUAKE SOURCE MECHANISMS* (A030765); 12 MONTHS \$70,000

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

TILTON, G R; *ISOTOPIC GEOCHEMISTRY OF LEAD AND STRONTIUM* (A011478 001); 24 MONTHS \$50,000

CROWELL, JOHN C; *EARLY DISPLACEMENT HISTORY OF THE SAN ANDREAS FAULT SYSTEM, SOUTHERN CALIFORNIA* (A030901); 24 MONTHS \$50,000

UNIVERSITY OF SOUTHERN CALIFORNIA

DAVIS, GREGORY A; *THE STRUCTURAL DEVELOPMENT OF THE SOUTHERN CORDILLERAN OROGEN, CALIFORNIA* (A021101 001); 24 MONTHS \$24,000

HENYEV, THOMAS L, PALMER, DONALD F, AND SMITH, TODD I; *TO CONSTRUCT AND TEST A JOSEPHSON-EFFECT MAGNETOMETER FOR THE MEASUREMENT OF REMANENT MAGNETIZATION* (A031961); 12 MONTHS \$4,500

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

ENGEL, ALBERT E J; *NATURE, ORIGIN AND EVOLUTION OF THE EARTH'S CRUST* (A03441 X00); 12 MONTHS \$30,200

UNIVERSITY OF CALIFORNIA, SAN DIEGO-REVELLE COLLEGE

GOODKIND, JOHN M; *WIDE-BAND GRAVIMETRY WITH THE SUPER-CONDUCTING GRAVIMETER* (A015985 002); 18 MONTHS \$43,400

COLORADO

COLORADO SCHOOL OF MINES

KELLER, GEORGE V; *ELECTROMAGNETIC SOUNDING OF THE CRUST AND UPPER MANTLE* (A013191 002); 6 MONTHS \$3,600

SOUTHERN COLORADO STATE COLLEGE

CHASE, R B; *THE ROLE OF THE IDAHO BATHOLITH IN THE STRUCTURAL EVOLUTION OF NORTHWEST MONTANA* (A031790); 24 MONTHS \$15,800

UNIVERSITY OF COLORADO

FARRELL, W E, AND HARRISON, J C; *FREE OSCILLATION AND EARTH TIDE STUDIES* (A030519); 12 MONTHS \$19,200

BRADDOCK, WILLIAM A; *DOCTORAL DISSERTATION RESEARCH IN GEOPHYSICS* (A031986); 21 MONTHS \$3,400

LARSON, EDWIN E; *DOCTORAL DISSERTATION RESEARCH IN GEOPHYSICS* (A033447); 24 MONTHS \$3,600

WALKER, THEODORE R; *DIAGENETIC ALTERATIONS IN FIRST-CYCLE NON-MARINE SANDSTONES* (A033560); 24 MONTHS \$37,100

CONNECTICUT

YALE UNIVERSITY

WAAGE, KARL M; *PALEONTOLOGICAL EVIDENCE ON THE CHANGES IN THE EARTH'S MOMENT OF INERTIA SINCE EARLY PROTEROZOIC* (A031834); 12 MONTHS \$22,000

DISTRICT OF COLUMBIA

CARNEGIE INSTITUTION OF WASHINGTON

CHAYES, FELIX; *DEVELOPMENT OF A PUBLICLY AVAILABLE ELECTRONIC LIBRARY OF ROCK ANALYSES* (A031201); 12 MONTHS \$18,800

SACKS, I SELWYN, AND LINDE, ALAN T; *ANELASTICITY STUDIES IN THE UPPER MANTLE AND STRESS RELEASE OF EARTHQUAKES* (A031869); 24 MONTHS \$49,000

GEORGE WASHINGTON UNIVERSITY

MILTON, CHARLES; *MINERALOGY AND PETROLOGY OF THE GREEN RIVER FORMATION OF UTAH, WYOMING AND COLORADO* (A004433 001); 24 MONTHS \$47,300

LEWIS, JOHN F; *PETROCHEMISTRY AND PETROLOGY OF SOME WEST INDIAN IGNEOUS ROCKS* (A029199 001); 12 MONTHS \$8,300

WASILEWSKI, PETER; *PRELIMINARY EVALUATION OF THE MECHANICAL AND THERMAL ALTERATIONS IN DREDGED OCEAN BASALTS* (A031840); 24 MONTHS \$28,800

NATIONAL ACADEMY OF SCIENCES

BOVE, ALBERT N; *SUPPORT OF THE U. S. NATIONAL COMMITTEE FOR GEOCHEMISTRY* (C310158 002); 12 MONTHS \$13,100

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

ODISHAW, HUGH; *SUPPORT OF THE GEOPHYSICS RESEARCH BOARD AND ITS AFFILIATES* (C310049 009*); 12 MONTHS \$101,175

HEINDL, L A; *U. S. NATIONAL COMMITTEE FOR THE INTERNATIONAL HYDROLOGICAL DECADE* (C310153 005*); 12 MONTHS \$99,000

BOVE, ALBERT N; *TASK ORDER FOR PARTIAL SUPPORT OF THE U. S. NATIONAL COMMITTEE FOR ROCK MECHANICS* (C310159 002); 12 MONTHS \$14,000

FLORIDA

FLORIDA STATE UNIVERSITY

CRAMER, FRITZ H; *SILURIAN PALYOMORPHS OF KENTUCKY AND TENNESSEE* (A030879); 12 MONTHS \$4,900

HARPER, CHRISTOPHER T, AND ODOM, A LEROY JR; *POTASSIUM-ARGON, RUBIDIUM-STRONTIUM AND URANIUM LEAD ISOTOPE STUDIES IN THE BLUE RIDGE AND INNER PIEDMONT, SOUTHERN APPALACHIANS* (A033359); 24 MONTHS \$32,600

UNIVERSITY OF SOUTH FLORIDA

HUANG, WEN HSING; *THE INFLUENCE OF ORGANIC MATTER ON ALTERATION OF CLAY MINERALS* (A033358); 24 MONTHS \$19,000

UNIVERSITY OF MIAMI-SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES

BONATTI, ENRICO, HARRISON, C G A, AND BALL, MAHLON M; *GEOLOGICAL AND GEOPHYSICAL FIELD TRIP TO THE AFAR DEPRESSION, ETHIOPIA* (A026263 001); \$2,500

NAGLE, FREDERICK, AND STIFF, JERRY J; *REGIONAL STRATIGRAPHIC VARIATIONS AND K/AR AGE DISTRIBUTIONS: THE LESSER ANTILLES* (A027121 001); 12 MONTHS \$25,400

GINSBURG, ROBERT N; *EARLY SUBMARINE CEMENTATION OF REEF* (A028902 X01); \$5,000

GINSBURG, ROBERT N; EARLY SUBMARINE CEMENTATION OF REEFS (A029202 X00); 12 MONTHS \$41,700

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY
LONG, LELAND TIMOTHY; A STUDY OF MICROEARTHQUAKES IN THE SOUTHEASTERN UNITED STATES (A031264); 12 MONTHS \$16,800

UNIVERSITY OF GEORGIA

MELTON, CHARLES E; THE ORIGIN OF DIAMONDS (A033357); 12 MONTHS \$20,900

HAWAII

UNIVERSITY OF HAWAII

NAUGHTON, JOHN J; POTASSIUM-ARGON DATING OF HAWAIIAN VOLCANICS (A01685 002); 24 MONTHS \$46,100

WALKER, DANIEL A, AND SUTTON, GEORGE H; SEISMOLOGICAL INVESTIGATION OF THE WESTERN AND SOUTH PACIFIC UPPER MANTLE (A018851 001); 12 MONTHS \$44,400

SUTTON, GEORGE H; LONG REFRACTION EXPERIMENT USING THE CANNIKIN NUCLEAR EXPLOSION AS A SOURCE (A031188); 6 MONTHS \$29,200

GARRELS, ROBERT M; WET SYNTHESIS OF SILICATES AT LOW TEMPERATURES, AND PROPERTIES OF SEDIMENT-WATER SYSTEMS (A010588); 6 MONTHS \$11,500

WOOLLARD, GEORGE P; COOPERATIVE GEOPHYSICAL AND GEOLOGICAL INVESTIGATION OF THE ANDEAN REGION OF SOUTH AMERICA (A032935); 12 MONTHS \$30,000

ILLINOIS

NORTHWESTERN UNIVERSITY

SPEED, ROBERT C; PERMO-TRIASSIC CONTINENTAL MARGIN TECTONICS IN NEVADA AND CALIFORNIA (A028308 001); \$5,700

MACKENZIE, FRED T; DOCTORAL DISSERTATION RESEARCH IN GEOCHEMISTRY (A031883); 24 MONTHS \$2,200

MACKENZIE, FRED T; EXPERIMENTAL CARBONATE DIAGENESIS (A031180); 24 MONTHS \$45,000

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

COHEN, ARTHUR D; GEOLOGY OF THE PEATS OF THE OKFENOKEE SWAMP (A015884 001); 24 MONTHS \$48,800

UNIVERSITY OF CHICAGO

MOORE, PAUL B; SYSTEMATIC ANALYSIS OF ATOMIC ARRANGEMENTS IN MINERALS (A010332 001); 24 MONTHS \$82,000

HAFNER, STEFAN S; INFRARED ABSORPTION, NUCLEAR MAGNETIC RESONANCE AND MOSSBAUER EFFECT APPLIED TO MINERALOGY (A014811 001); 24 MONTHS \$80,000

JAMIESON, JOHN C; THE PHYSICAL BEHAVIOR OF SOLIDS UNDER VERY HIGH PRESSURE (A018875 001); 24 MONTHS \$79,800

WYLLIE, PETER J; ORIGIN OF PLUTONIC IGNEOUS ROCK SERIES (A029448 001); 12 MONTHS \$35,100

WYLLIE, PETER J; PETROGENETIC LINKS BETWEEN CARBONATITES AND KIMBERLITES (A032268 X00); 12 MONTHS \$23,300

CLAYTON, ROBERT N, AND SMITH, JOSEPH V; CHEMICAL AND ISOTOPE ANALYSIS WITH AN ION MICROPROBE (A033111*); 12 MONTHS \$84,700

UNIVERSITY OF ILLINOIS AT URBANA

STEVENSON, F J; BIOGEOCHEMISTRY OF NITROGEN (A013707 001); 24 MONTHS \$34,000

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

DODD, J ROBERT; PALAEOECOLOGY OF THE MARINE PIOCENE OF THE PACIFIC COAST (A036432); 24 MONTHS \$30,400

PURDUE UNIVERSITY

ROY, ROBERT F; HEAT FLOW STUDIES OF CRUST AND MANTLE IN NORTHWESTERN MEXICO (A030189); 24 MONTHS \$29,000

KULLERUD, GUNNAR; PURCHASE OF EQUIPMENT FOR PHASE RELATIONS IN SULFIDE-TYPE SYSTEMS (A031727); 12 MONTHS \$65,000

TAYLOR, LAWRENCE A, AND MEYER, HENRY O; PHASE RELATIONS IN SULFIDE AND SILICATE SYSTEMS (A031688); 24 MONTHS \$45,000

LOW, PHILIP F; RELATION BETWEEN THE CRYSTAL-LATTICE DIMENSIONS OF MONTMORILLONITE AND THE PROPERTIES OF THE ASSOCIATED WATER (A032117); 24 MONTHS \$50,900

KANSAS

UNIVERSITY OF KANSAS

VAN SCHMUS, W R; MIDDLE PRECAMBRIAN CRUSTAL EVOLUTION IN THE PENOCAN FOLD BELT SUBPROVINCE, WISCONSIN AND UPPER MICHIGAN (A015851 001); 24 MONTHS \$37,000

LOUISIANA

GRAMBLING COLLEGE

SABU, DWARKA D; THE STUDY OF NOBLE GAS ANOMALIES IN THE TERRESTRIAL ORE SAMPLES (A031004); 12 MONTHS \$7,800

MAINE

UNIVERSITY OF MAINE, ORONO

GREEN, E JEWETT; PREDICTIVE THERMODYNAMIC MODELS FOR MINERAL SYSTEMS AND THEIR GEOLOGICAL APPLICATIONS (A031053); 24 MONTHS \$18,000

MARYLAND

JOHNS HOPKINS UNIVERSITY

EUGSTER, HANS P; CONTROL OF PH IN HYDROTHERMAL ENVIRONMENTS (A001101 001); 28 MONTHS \$68,800

HARDIE, LAWRENCE A, AND EUGSTER, HANS P; SEDIMENTARY ENVIRONMENT OF MARINE EVAPORITES (A031076); 24 MONTHS \$60,000

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

HESS, WILMOT N; FOREIGN STANDARD SEISMOLOGICAL STATIONS AND RELATED SEISMOLOGICAL DATA CENTER ACTIVITIES (A000848 001); 12 MONTHS \$283,500

MASSACHUSETTS

HARVARD UNIVERSITY

THOMPSON, JAMES B JR, AND KLEIN, CORNELIS JR; COEXISTING MINERALS IN METAMORPHIC ROCKS (A011438 001); 24 MONTHS \$63,700

BURNHAM, CHARLES W; CRYSTAL CHEMISTRY OF SILICATES (A018858 002); 24 MONTHS \$75,700

SIEVER, RAYMOND; PETROLOGY AND GEOCHEMISTRY OF FINE-GRAINED SILICEOUS SEDIMENTS (A018865 002); 21 MONTHS \$37,500

SHANKLAND, T J; SYNTHETIC FORSTERITE FOR GEOPHYSICAL RESEARCH (A031090); 12 MONTHS \$23,600

DZIBOWSKI, ADAM M; INVESTIGATION OF THE PROPERTIES OF THE EARTH INTERIOR BY MEANS OF OBSERVATION OF SURFACE WAVES AND FREE OSCILLATIONS (A031320); 24 MONTHS \$53,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

CHUNG, D H, AND SIMMONS, GENE; GEOPHYSICAL PROPERTIES OF POSSIBLE EARTH MANTLE MATERIALS (A011091 001); 24 MONTHS \$77,100

FREY, FREDERICK A; PHASE EQUILIBRIA OF BIOTITES AND AMPHIBOLES (A013092 001); 12 MONTHS \$28,500

AKI, KEIITI; GLOBAL TECTONIC SYNTHESIS FROM THE SPECTRAL ANALYSIS OF EARTHQUAKE SURFACE WAVES (A018211 001); 24 MONTHS \$75,000

SHAPIRO, IRWIN I; GEOPHYSICAL APPLICATIONS OF ATOMIC-CLOCK RADIO INTERFEROMETRY (A015134 001); 12 MONTHS \$58,900

BURNS, ROGER G; THE MOSSBAUER EFFECT IN MINERALS AT ELEVATED PRESSURES (A028904 X01); \$20,000

BURNS, ROGER G; THE MOSSBAUER EFFECT IN MINERALS AT ELEVATED PRESSURES (A028904 X02); 12 MONTHS \$40,000

SOUTHARD, JOHN B; GLACIER HYDRAULICS (A031439); 24 MONTHS \$31,100

MCGETCHIN, THOMAS R; DIATREME STUDIES (A031788); 24 MONTHS \$51,000

HURLEY, PATRICK M, AND FAIRBAIRN, HAROLD W; RADIOMETRIC AGE DATING OF PRECAMBRIAN ROCKS AND JOIDES CORES (A031878); 12 MONTHS \$37,100

WALSH, JOSEPH B; INTERNAL STRESS IN POLYCRYSTALLINE ROCK (A031900); 24 MONTHS \$41,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

MORSE, STEARNS A; GEOCHEMICAL STUDIES IN THE KICLAPAIT LAYERED INTRUSION AND NAIN ANORTHOSITE COMPLEX, LABRADOR (A031847); 12 MONTHS \$4,500

HUBERT, JOHN F; SEDIMENTOLOGY OF THE CAMBRO-ORDOVICIAN COW HEAD GROUP, NORTHWESTERN NEWFOUNDLAND (A031870); 24 MONTHS \$28,400

JAFFE, HOWARD W, AND ROBINSON, PETER; PHASE RELATIONS IN METAMORPHIC ROCKS OF CENTRAL MASSACHUSETTS AND THE CENTRAL ADIRONDACKS (A031859); 24 MONTHS \$48,400

MORSE, S A; EVOLUTION OF ANORTHOSITE AND RELATED CRUSTAL ROCKS IN COASTAL LABRADOR (A031844); 24 MONTHS \$60,000

ROBINSON, PETER; STRATIGRAPHY AND STRUCTURE OF NAPPES AND GNEISS DOMES OF THE BRONSON HILL ANTICLINORIUM AND MERRIMACK SYNCLINORIUM, WEST-CENTRAL MASSACHUSETTS (A033837); 24 MONTHS \$30,600

WILLIAMS COLLEGE

BOND, GERARD C; SEDIMENTATION, PALEOGEOGRAPHY, AND PALEOTECTONICS OF UPPER PALEOZOIC STRATA IN THE EASTERN ALASKA RANGE, ALASKA (A031617); 24 MONTHS \$28,100

MICHIGAN

ADRIAN COLLEGE

MADOLE, R F, AND BACHHUBER, F W; STRATIGRAPHIC AND PALYNOLOGIC STUDY OF FORMER ICE-MARGINAL LAKES AND A RADIOCARBON CORRELATION OF STADES OF PINEDALES GLACIATION IN BOULDER COUNTY, COLORADO (A048127 001); \$4,275

MADOLE, R F, AND BACHHUBER, F W; STRATIGRAPHIC AND PALYNOLOGIC STUDY OF FORMER ICE-MARGINAL LAKES AND A RADIOCARBON CORRELATION OF STADES OF PINEDALES GLACIATION IN BOULDER COUNTY, COLORADO (A048131 002); \$800

UNIVERSITY OF MICHIGAN

KELLY, WILLIAM C; FLUID INCLUSIONS IN TIN-TUNGSTEN VEINS (A049054 X01); 12 MONTHS \$35,200

DORR, JOHN A JR; FOSSIL VERTEBRATE INTERCONTINENTAL FAUNAL RELATIONSHIPS AND PLATE TECTONICS, DEVONIAN-CRETACEOUS (A030790); 12 MONTHS \$22,300

MINNESOTA

UNIVERSITY OF MINNESOTA

SAWKINS, FREDERICK J; FLUID INCLUSION STUDIES RELATED TO ORE GENESIS IN POSTMAGMATIC, METAMORPHIC AND SEDIMENTARY ENVIRONMENTS (A001333 008); 12 MONTHS \$24,900

HOOKE, ROGER LEB; GLACIOLOGICAL STUDIES ON THE BARNES ICE CAP, BAFFIN ISLAND, CANADA (A019910 008); 12 MONTHS \$20,000

BANERJEE, SUBIR K; STUDY OF REMANENCE IN FINE PARTICLES OF SYNTHESIZED (AND NATURAL) IRON TITANIUM OXIDES (A031899); 12 MONTHS \$9,000

MISSOURI

SOUTHWEST MISSOURI STATE COLLEGE

KURTZ, V E; CAMBRIAN-LOWER ORDOVICIAN PALEONTOLOGY, STRATIGRAPHY AND SEDIMENTOLOGY, BIGHORN MOUNTAINS, WYOMING (A001538 001); 12 MONTHS \$14,300

ST LOUIS UNIVERSITY

STAUDER, WILLIAM; RESEARCH IN EARTH STRAINS AND LOCAL MECHANISMS (A013416 001); 24 MONTHS \$99,300

NUTTLL, OTTO W; SEISMOLOGICAL STUDIES RELATED TO THE EARTHQUAKE HAZARD PROBLEM IN THE CENTRAL AND EASTERN UNITED STATES (A020115 001); 12 MONTHS \$40,000

VINCENZ, STANISLAW A; PALEOMAGNETIC INVESTIGATIONS OF HISPANIOLA (A031614); 12 MONTHS \$19,700

UNIVERSITY OF MISSOURI, COLUMBIA

HOSTETLER, PAUL B, AND BAUMAN, JOHN E; THERMODYNAMICS OF IONIC INTERACTIONS (A031121); 24 MONTHS \$64,000

JOHNS, WILLIAM D; COMPLETION OF AN X-RAY DIFFRACTOMETER SYSTEM (A031140); 12 MONTHS \$5,500

UNIVERSITY OF MISSOURI, ROLLA

MANUEL, OLIVER K; NOBLE GASES IN THE EARTH AND ITS ATMOSPHERE (A016618 001); 24 MONTHS \$50,000

MONTANA

UNIVERSITY OF MONTANA

TALBOT, J L; THE ROLE OF THE IDAHO BATHOLITH IN THE STRUCTURAL EVOLUTION OF NORTHWEST MONTANA (A033768); 24 MONTHS \$30,000

NEW JERSEY

PRINCETON UNIVERSITY

PHINNEY, ROBERT A; MAGNETOTELLURIC EXPLORATION FOR CRUSTAL THERMAL ANOMALIES (A012287 001); 12 MONTHS \$31,000

KINSMAN, DAVID J J; PROCESSES CONTROLLING THE CHEMICAL COMPOSITIONS OF SURFACE AND SHALLOW GROUND WATERS (A011041); 24 MONTHS \$62,300

WALDBAUM, DAVID R; CALORIMETRIC INVESTIGATION OF THE THERMODYNAMIC PROPERTIES OF MINERALS (A031163); 24 MONTHS \$17,400

MORGAN, W JASON; THEORETICAL STUDIES IN PLATE TECTONICS (A031341); 24 MONTHS \$60,300

BONINI, WILLIAM E; ANALYSIS OF GRAVITY ANOMALIES - SOUTHERN MARGIN OF THE CARIBBEAN SEA IN VENEZUELA (A031277); 24 MONTHS \$44,700

HOLLAND, H D; PLANNING CONFERENCE ON MINERAL EXPLORATION (A031143); 12 MONTHS \$7,000

SUPPE, JOHN; TECTONIC DEVELOPMENT AND PROGRESSIVE METAMORPHISM OF THE FRANCISCAN TERRAIN, CALIFORNIA (A033354); 24 MONTHS \$31,000

NEW MEXICO

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

SANFORD, ALLAN R; DETERMINATION OF CRUSTAL STRUCTURE IN THE RIO GRANDE RIFT ZONE (A030787); 12 MONTHS \$10,900

UNIVERSITY OF NEW MEXICO

ANDERSON, ROGER Y; CLIMATIC CYCLES AND PATTERNS IN VARVED SEDIMENTS-CASTILE PROJECT (A014374 001); 12 MONTHS \$35,100

BROOKINS, DOUGLAS G; RUBIDIUM - STRONTIUM GEOCHRONOLOGY (A031149); 12 MONTHS \$21,100

NEW YORK

COLUMBIA UNIVERSITY

KAY, MARSHALL; DUNNAGE MELANGE (NEWFOUNDLAND) AND THE PROTO-ATLANTIC PROBLEM (A015350 001); 12 MONTHS \$10,100

YFMA, PETER J M; DOCTORAL DISSERTATION RESEARCH IN GEOCHEMISTRY (A040064); 12 MONTHS \$3,600

KERR, PAUL F; THE ROLE OF CLAY MINERALS IN LANDSLIDES (A031801); 6 MONTHS \$3,300

CORNELL UNIVERSITY

OLIVER, JACK; COLLABORATIVE RESEARCH ON THE DETAILED SEISMICITY OF THE ALPINE FAULT, NEW ZEALAND (A030388); 24 MONTHS \$59,600

OLIVER, JACK; TECTONICS AND STRUCTURE OF THE TONGA ISLAND ARC (A030174); 24 MONTHS \$136,400

WHEELER, E P II; PETROLOGY OF NAIN ANORTHOSITE - ADAMELITE COMPLEX (A041041); 24 MONTHS \$3,700

ISACKS, BRYAN L; SEISMOLOGICAL STUDIES OF THE DESCENT OF LITHOSPHERE INTO THE MANTLE (A031140); 24 MONTHS \$76,000

NEW YORK UNIVERSITY

BURRIDGE, ROBERT; ELASTICITY PROBLEMS IN SEISMOLOGY (A031870); 24 MONTHS \$50,000

STATE UNIVERSITY AT ALBANY

WILLIAMS, P F, AND MEANS, W D; FOLDING AND FABRIC DEVELOPMENT IN EXPERIMENTALLY DEFORMED SYNTHETIC MATERIALS (A015918 001); 24 MONTHS \$38,000

MIYASHIRO, AKIHO; STUDY OF IGNEOUS AND METAMORPHIC ROCKS OF THE OCEANIC REGION (A020742); 12 MONTHS \$40,000

BIRD, JOHN M, AND DEWEY, JOHN F; STUDIES OF OPHIOLITE COMPLEXES AND RELATED ROCKS IN THE NORTHERN APPALACHIANS (A031814); 24 MONTHS \$55,000

STATE UNIVERSITY AT BINGHAMTON

VIDALE, ROSEMARY J; STUDY OF LOCALLY DERIVED VEIN MINERAL ASSEMBLAGES IN METAMORPHIC ROCKS (A030888); 24 MONTHS \$30,600

STATE UNIVERSITY AT STONY BROOK

PAPIKE, JAMES J, AND PREWITT, CHARLES T; PHASE TRANSITIONS AND INTRACRYSTALLINE EQUILIBRIA IN PYROXENES AND AMPHIBOLES (A012874 001); 24 MONTHS \$110,200

BENCE, ALFRED E; METAMORPHIC PETROGENESIS, DUTCHESS COUNTY, NEW YORK (A015838 001); 12 MONTHS \$20,000

GEBELEIN, CONRAD D; STRATIGRAPHY AND ECOLOGY OF RECENT SHALLOW MARINE CARBONATE SEDIMENTS, SOUTHWEST ANDROS ISLAND, BAHAMAS (A025245 001); 12 MONTHS \$31,000

HANSON, GILBERT N; EVOLUTION OF EARLY PRECAMBRIAN TERRANE (A030717); 12 MONTHS \$20,900

CARTER, NEVILLE L; SOLID FLOW IN THE EARTH'S MANTLE (A031589); 24 MONTHS \$85,000

SYRACUSE UNIVERSITY

GROSHONG, RICHARD H JR; TWINNED CALCITE AS A NATURAL STRAIN GAGE-VERIFICATION AND ACCURACY (A031094); 12 MONTHS \$10,500

DE WAARD, DIRK; PETROLOGY AND STRUCTURE OF ROCKS BORDERING ON ANORTHOSITE MASSES IN THE NAIN AREA, LABRADOR (A031870); 24 MONTHS \$35,000

UNIVERSITY OF ROCHESTER

BASSETT, WILLIAM A, AND LIU, LIN-GUN; INVESTIGATION OF THE EFFECT OF PRESSURE ON THE MELTING OF IRON AND ITS ALLOYS (A031808); 12 MONTHS \$21,900

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

KAY, ROBERT W; DISPERSED ELEMENTS, LEAD AND STRONTIUM ISOTOPE COMPOSITIONS IN OCEANIC VOLCANIC ROCKS (A016457 001); 24 MONTHS \$47,200

EWING, MAURICE, AND NOWROOZI, ALI A; OCEAN BOTTOM PROJECT (A021172 001); 12 MONTHS \$50,800

SYKES, LYNN R, AND WYSS, MAX; A DETAILED STUDY OF THE REYKJANES PENINSULA, ICELAND. THE LANDWARD EXTENSION OF AN ACTIVELY SPREADING MID-OCEAN RIDGE (A031405 001); 20 MONTHS \$68,000

SCHOLZ, CHRISTOPHER, AND OLIVER, JACK; THE DETAILED SEISMICITY OF THE ALPINE FAULT, NEW ZEALAND (A030388); 24 MONTHS \$60,700

EWING, MAURICE, AND KUO, JOHN T; SOLID-EARTH TIDE STUDIES IN U.S.A. AND WESTERN EUROPE (A030887); 12 MONTHS \$38,000

MICHIGAN

ADRIAN COLLEGE

MADOLE, R. F. AND BACHHUBER, F. W.; STRATIGRAPHIC AND PALYNOLOGIC STUDY OF FORMER ICE-MARGINAL LAKES AND A RADIOCARBON CORRELATION OF STADES OF PINEDALE GLACIATION IN BOULDER COUNTY, COLORADO (A02117 001); \$4,878

MADOLE, R. F. AND BACHHUBER, F. W.; STRATIGRAPHIC AND PALYNOLOGIC STUDY OF FORMER ICE-MARGINAL LAKES AND A RADIOCARBON CORRELATION OF STADES OF PINEDALE GLACIATION IN BOULDER COUNTY, COLORADO (A02117 002); \$800

UNIVERSITY OF MICHIGAN

KELLY, WILLIAM C.; FLUID INCLUSIONS IN TIN-TUNGSTEN VEINS (A021254 X01); 12 MONTHS \$35,200

DORR, JOHN A. JR.; FOSSIL VERTEBRATE INTERCONTINENTAL FAUNAL RELATIONSHIPS AND PLATE TECTONICS, DEVONIAN-CRETACEOUS (A030730); 12 MONTHS \$22,300

MINNESOTA

UNIVERSITY OF MINNESOTA

SAWKINS, FREDERICK J.; FLUID INCLUSION STUDIES RELATED TO ORE GENESIS IN POSTMAGMATIC, METAMORPHIC AND SEDIMENTARY ENVIRONMENTS (A011553 002); 12 MONTHS \$24,900

HOOKER, ROGER LEB; GLACIOLOGICAL STUDIES ON THE BARNES ICE CAP, BAFFIN ISLAND, CANADA (A011910 002); 12 MONTHS \$20,000

BANERJEE, SUBIR K.; STUDY OF REMNANCE IN FINE PARTICLES OF SYNTHESIZED (AND NATURAL) IRON-TITANIUM OXIDES (A031199); 12 MONTHS \$9,000

MISSOURI

SOUTHWEST MISSOURI STATE COLLEGE

KURTZ, V. E.; CAMBRIAN-LOWER ORDOVICIAN PALEONTOLOGY, STRATIGRAPHY AND SEDIMENTOLOGY, BIGHORN MOUNTAINS, WYOMING (A001558 001); 12 MONTHS \$14,300

ST LOUIS UNIVERSITY

STAUDER, WILLIAM; RESEARCH IN EARTH STRAINS AND FOCAL MECHANISMS (A015816 001); 24 MONTHS \$99,300

NUTTLI, OTTO W.; SEISMOLOGICAL STUDIES RELATED TO THE EARTHQUAKE HAZARD PROBLEM IN THE CENTRAL AND EASTERN UNITED STATES (A020115 001); 12 MONTHS \$40,000

VINCENZ, STANISLAW A.; PALEOMAGNETIC INVESTIGATIONS OF HISPANIOLA (A031147); 12 MONTHS \$19,700

UNIVERSITY OF MISSOURI, COLUMBIA

HOSTETLER, PAUL B. AND BAUMAN, JOHN E.; THERMODYNAMICS OF IONIC INTERACTIONS (A031111); 24 MONTHS \$64,000

JOHNS, WILLIAM D.; COMPLETION OF AN X-RAY DIFFRACTOMETER SYSTEM (A031140); 12 MONTHS \$5,500

UNIVERSITY OF MISSOURI, ROLLA

MANUEL, OLIVER K.; NOBLE GASES IN THE EARTH AND ITS ATMOSPHERE (A011619 001); 24 MONTHS \$50,000

MONTANA

UNIVERSITY OF MONTANA

TALBOT, J. L.; THE ROLE OF THE IDAHO BATHOLITH IN THE STRUCTURAL EVOLUTION OF NORTHWEST MONTANA (A033188); 24 MONTHS \$30,000

NEW JERSEY

PRINCETON UNIVERSITY

PHINNEY, ROBERT A.; MAGNETOTELLURIC EXPLORATION FOR CRUSTAL THERMAL ANOMALIES (A018247 001); 12 MONTHS \$31,000

KINSMAN, DAVID J. J.; PROCESSES CONTROLLING THE CHEMICAL COMPOSITIONS OF SURFACE AND SHALLOW GROUND WATERS (A031011); 24 MONTHS \$62,200

WALDBAUM, DAVID R.; CALORIMETRIC INVESTIGATION OF THE THERMODYNAMIC PROPERTIES OF MINERALS (A031163); 24 MONTHS \$77,400

MORGAN, W. JASON; THEORETICAL STUDIES IN PLATE TECTONICS (A031361); 24 MONTHS \$60,300

BONINI, WILLIAM E.; ANALYSIS OF GRAVITY ANOMALIES - SOUTHERN MARGIN OF THE CARIBBEAN SEA IN VENEZUELA (A031877); 24 MONTHS \$44,700

HOLLAND, H. D.; PLANNING CONFERENCE ON MINERAL EXPLORATION (A031143); 12 MONTHS \$7,000

SUPPE, JOHN; TECTONIC DEVELOPMENT AND PROGRESSIVE METAMORPHISM OF THE FRANCISCAN TERRAIN, CALIFORNIA (A033551); 24 MONTHS \$31,900

NEW MEXICO

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

SANFORD, ALLAN R.; DETERMINATION OF CRUSTAL STRUCTURE IN THE RIO GRANDE RIFT ZONE (A030747); 12 MONTHS \$10,900

UNIVERSITY OF NEW MEXICO

ANDERSON, ROGER Y.; CLIMATIC CYCLES AND PATTERNS IN VARVED SEDIMENTS-CASTILE PROJECT (A013313 001); 12 MONTHS \$35,100

BROOKINS, DOUGLAS G.; RUBIDIUM - STRONTIUM GEOCHRONOLOGY (A031158); 12 MONTHS \$21,100

NEW YORK

COLUMBIA UNIVERSITY

KAY, MARSHALL; DUNNAGE MELANOE (NEWFOUNDLAND) AND THE PROTO-ATLANTIC PROBLEM (A013350 001); 12 MONTHS \$10,100

YPMA, PETER J. M.; DOCTORAL DISSERTATION RESEARCH IN GEOCHEMISTRY (A030661); 12 MONTHS \$3,500

KERR, PAUL F.; THE ROLE OF CLAY MINERALS IN LANDSLIDES (A031801); 6 MONTHS \$5,300

CORNELL UNIVERSITY

OLIVER, JACK; COLLABORATIVE RESEARCH ON THE DETAILED SEISMICITY OF THE ALPINE FAULT, NEW ZEALAND (A030388); 24 MONTHS \$59,600

OLIVER, JACK; TECTONICS AND STRUCTURE OF THE TONGA ISLAND ARC (A030473); 24 MONTHS \$135,400

WHEELER, E. P. II; PETROLOGY OF MAIN ANORTHOSITE - ADAMELITE COMPLEX (A031024); 24 MONTHS \$3,700

ISACKS, BRYAN L.; SEISMOLOGICAL STUDIES OF THE DESCENT OF LITHOSPHERE INTO THE MANTLE (A031110); 24 MONTHS \$75,000

NEW YORK UNIVERSITY

BURRIDGE, ROBERT; ELASTICITY PROBLEMS IN SEISMOLOGY (A031570); 24 MONTHS \$50,000

STATE UNIVERSITY AT ALBANY

WILLIAMS, P. F. AND MEANS, W. D.; FOLDING AND FABRIC DEVELOPMENT IN EXPERIMENTALLY DEFORMED SYNTHETIC MATERIALS (A015918 002); 24 MONTHS \$38,000

MIYASHIRO, AKIHO; STUDY OF IONEOUS AND METAMORPHIC ROCKS OF THE OCEANIC REGION (A020718); 12 MONTHS \$40,000

BIRD, JOHN M. AND DEWEY, JOHN F.; STUDIES OF OPHIOLITE COMPLEXES AND RELATED ROCKS IN THE NORTHERN APPALACHIANS (A033114); 24 MONTHS \$55,000

STATE UNIVERSITY AT BINGHAMTON

VIDALE, ROSEMARY J.; STUDY OF LOCALLY DERIVED VEIN MINERAL ASSEMBLAGES IN METAMORPHIC ROCKS (A030688); 24 MONTHS \$30,600

STATE UNIVERSITY AT STONY BROOK

PAPIKE, JAMES J. AND PREWITT, CHARLES T.; PHASE TRANSITIONS AND INTRACRYSTALLINE EQUILIBRIA IN PYROXENES AND AMPHIBOLES (A018673 001); 24 MONTHS \$110,200

BENCE, ALFRED E.; METAMORPHIC PETROGENESIS, DUTCHESS COUNTY, NEW YORK (A015638 001); 12 MONTHS \$20,000

GEBELEIN, CONRAD D.; STRATIGRAPHY AND ECOLOGY OF RECENT SHALLOW MARINE CARBONATE SEDIMENTS, SOUTHWEST ANDROS ISLAND, BAHAMAS (A023345 001); 12 MONTHS \$31,000

HANSON, GILBERT N.; EVOLUTION OF EARLY PRECAMBRIAN TERRANE (A030717); 12 MONTHS \$20,900

CARTER, NEVILLE L.; SOLID FLOW IN THE EARTH'S MANTLE (A031589); 24 MONTHS \$25,000

SYRACUSE UNIVERSITY

GROSHONG, RICHARD H. JR.; TWINNED CALCITE AS A NATURAL STRAIN GAGE-VERIFICATION AND ACCURACY (A031091); 12 MONTHS \$10,500

DE WAARD, DIRK; PETROLOGY AND STRUCTURE OF ROCKS BORDERING ON ANORTHOSITE MASSES IN THE NAIN AREA, LABRADOR (A031874); 24 MONTHS \$35,000

UNIVERSITY OF ROCHESTER

BASSETT, WILLIAM A. AND LIU, LIN-GUN; INVESTIGATION OF THE EFFECT OF PRESSURE ON THE MELTING OF IRON AND ITS ALLOYS (A031902); 12 MONTHS \$21,900

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

KAY, ROBERT W.; DISPERSED ELEMENTS, LEAD AND STRONTIUM ISOTOPE COMPOSITIONS IN OCEANIC VOLCANIC ROCKS (A018437 001); 24 MONTHS \$47,200

EWING, MAURICE, AND NOWROOZI, ALI A.; OCEAN BOTTOM PROJECT (A021173 001); 12 MONTHS \$50,900

SYKES, LYNN R. AND WYSS, MAX; A DETAILED STUDY OF THE REYKJANES PENINSULA, ICELAND - THE LANDWARD EXTENSION OF AN ACTIVELY SPREADING MID-OCEAN RIDGE (A021465 001); 20 MONTHS \$58,000

SCHOLZ, CHRISTOPHER, AND OLIVER, JACK; THE DETAILED SEISMICITY OF THE ALPINE FAULT, NEW ZEALAND (A030388); 24 MONTHS \$60,700

EWING, MAURICE, AND KUO, JOHN T.; SOLID-EARTH TIDE STUDIES IN U.S.A. AND WESTERN EUROPE (A030687); 12 MONTHS \$38,000

BROECKER, WALLACE S; DOCTORAL DISSERTATION RESEARCH IN GEOCHEMISTRY (A031202); 12 MONTHS \$2,600

OPDYKE, NEIL D; MAGNETIC STRATIGRAPHY, CORRELATION AND ABSOLUTE AGE OF PLEISTOCENE-PLIOCENE TERRESTRIAL SEDIMENTS IN THE SOUTHERN BASIN AND RANGE PROVINCE (A033353); 24 MONTHS \$30,500

RICHARDS, PAUL G; INVESTIGATION OF PULSE DEFORMATION IN SEISMIC BODY WAVES (A034109); 24 MONTHS \$39,700

HAYS, JAMES D; CONFERENCE ON THE EXTINCTION OF ANIMAL LIFE IN THE GEOLOGIC PAST (A034318); 6 MONTHS \$4,600

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA

TING, FRANCIS T C; PETROGRAPHIC CHARACTERIZATION OF LOW-RANK COALS OF NORTH CENTRAL UNITED STATES (A031930); 24 MONTHS \$34,900

OHIO

CASE WESTERN RESERVE UNIVERSITY

NAIRN, ALAN E M; PALEOMAGNETIC INVESTIGATION OF MESOZOIC ROCKS (A030741); 24 MONTHS \$39,800

OHIO STATE UNIVERSITY

FAURE, GUNTER; DOCTORAL DISSERTATION RESEARCH IN GEOCHEMISTRY (A030663); 24 MONTHS \$4,000

OKLAHOMA

NORTHEASTERN STATE COLLEGE

REED, LANNY JOE; ORIENTATION OF PARTICLES EMBEDDED IN A VISCOUS MATRIX AS THE MATRIX IS DEFORMED (A030770); 12 MONTHS \$11,300

UNIVERSITY OF OKLAHOMA

DUBOIS, ROBERT L; STUDIES OF SECULAR VARIATION BY ARCHEOMAGNETIC METHODS (A034110); 12 MONTHS \$25,000

OREGON

OREGON STATE UNIVERSITY

JOHNSON, J GRANVILLE; A STANDARD BIOSTRATIGRAPHIC SEQUENCE FOR THE DEVONIAN IN WESTERN NORTH AMERICA (A017417 001); 24 MONTHS \$40,000

HARWARD, M E; CLAYS IN VOLCANIC ASH DEPOSITS FROM MT. MAZAMA, OREGON (A031184); 24 MONTHS \$30,000

TAUBENECK, WILLIAM H; GRANITIC ROCKS IN THE MESOZOIC EVOLUTION OF THE PACIFIC NORTHWEST (A031852); 24 MONTHS \$29,200

UNIVERSITY OF OREGON - EUGENE

GOLES, GORDON O, AND BAKER, BRIAN H; GEOCHEMICAL, PETROGENETIC AND VOLCANO-TECTONIC STUDIES OF THE ALKALINE VOLCANIC ROCKS OF THE KENYAN RIFT (A033333); 24 MONTHS \$58,000

GOLES, GORDON G; COMPOSITIONAL VARIATIONS IN COLUMBIA RIVER BASALTS AND RELATED ROCKS (A033181 X00); 12 MONTHS \$33,700

PENNSYLVANIA

FRANKLIN AND MARSHALL COLLEGE

MORSE, S A; EVOLUTION OF ANORTHOSITE AND RELATED CRUSTAL ROCKS IN COASTAL LABRADOR (A031326 001); \$2,800

BEUTNER, EDWARD C; ONSHORE GEOLOGIC EVIDENCE OF CRUSTAL PLATE MOVEMENTS, CAPE MENDOCINO AREA CALIFORNIA (A032178); 24 MONTHS \$33,500

LEHIGH UNIVERSITY

PARKS, J M; DOCTORAL DISSERTATION RESEARCH- BIOSTRATIGRAPHIC AND EVOLUTIONARY STUDY OF CONODONTS FROM THE TYPE CHAZY (MIDDLE ORDOVICIAN) OF NEW YORK AND VERMONT (A030332); 12 MONTHS \$1,250

PENNSYLVANIA STATE UNIVERSITY

BOETTCHER, ARTHUR L; HIGH-PRESSURE HYDROTHERMAL PHASE TRANSFORMATIONS AND THE GENERATION OF MAGMAS (A012727 001); 24 MONTHS \$40,100

SPACKMAN, WILLIAM; THE CHARACTERISTICS OF MODERN ORGANIC SEDIMENTS AND THEIR USE IN THE IDENTIFICATION, DESCRIPTION AND INTERPRETATION OF CARBONACIOUS ROCKS AND ROCK SEQUENCES (A024941 001); \$5,200

BURNHAM, C WAYNE; P-V-T-X RELATIONS IN THE SYSTEM H₂O-NACL TO 10 KILOBARS AND 1000 DEGREES C (A031062); 18 MONTHS \$72,200

WEBER, JON N; GEOCHEMICAL STUDIES OF CARBONATES FROM CORAL REEF ENVIRONMENTS (A031117); 24 MONTHS \$28,000

DEINES, P; EXPERIMENTAL DETERMINATION OF OXYGEN ISOTOPE FRACTIONATIONS BETWEEN MAGNETITE AND QUARTZ AND BETWEEN MAGNETITE AND SANIDINE (A031284); 24 MONTHS \$22,000

OHMOTO, HIROSHI; SULFUR ISOTOPIC EQUILIBRIA IN HYDROTHERMAL SYSTEMS (A031901); 24 MONTHS \$30,600

UNIVERSITY OF PENNSYLVANIA

RALPH, ELIZABETH K; C-14 MEASUREMENTS OF KNOWN AGE SAMPLES (A012572 001); 24 MONTHS \$46,100

UNIVERSITY OF PITTSBURGH

FULLER, M, ITO, HARUAKI, AND SCHMIDT, VICTOR A; PALEOMAGNETIC STUDIES OF REVERSALS OF THE EARTH'S MAGNETIC FIELD (A013135 001); 24 MONTHS \$49,500

FULLER, M, ITO, HARUAKI, AND SCHMIDT, VICTOR A; PALEOMAGNETIC STUDIES OF REVERSALS OF THE EARTH'S MAGNETIC FIELD (A013135 002); 12 MONTHS \$500

BIKERMAN, MICHAEL; K-AR DATING OF VOLCANIC ROCKS IN SOUTHWESTERN NEW MEXICO (A016004 001); 12 MONTHS \$7,800

CASSIDY, WILLIAM A; FIELD STUDIES AT CAMPO DEL CIELO, ARGENTINA (A031822); 12 MONTHS \$9,700

ROLLINS, HAROLD B, AND DONAHUE, JACK; MARINE CYCLES AND SYMMETRY (A031822); 24 MONTHS \$41,400

RHODE ISLAND

BROWN UNIVERSITY

GILETTI, BRUNO J; NATURAL AND ARTIFICIALLY INDUCED ISOTOPIC AGE DISCORDANCES IN MINERALS (A001649 002); 12 MONTHS \$34,700

CHAPPEL, WILLIAM M; MECHANICS OF STRESS TRANSMISSION ACROSS A FOLD AND THRUST BELT (A004184 001); 24 MONTHS \$34,200

MATTHEWS, R K; CARBONATE DIAGENESIS WITH SPECIAL EMPHASIS ON THE PLEISTOCENE OF BARBADOS, WEST INDIES (A0416103 001); 24 MONTHS \$47,600

IMBRIE, JOHN; PALEOECOLOGY OF THE OCEANIC FORMATION (A028755 001); 15 MONTHS \$11,300

HESS, PAUL C; SOLUTION THEORIES OF SILICATE MELTS (A031785); 24 MONTHS \$11,600

HERMANC, JOHN F; MAGNETOTELLURIC AND TELLURIC STUDIES AT MICROPULSATION PERIODS ON THE AZORES (A033444); 12 MONTHS \$19,100

TULLIS, TERRY E; RELATIONSHIP BETWEEN FINITE STRAIN AND PREFERRED ORIENTATION IN SLATE (A033553); 24 MONTHS \$19,900

UNIVERSITY OF RHODE ISLAND

WATKINS, N D; PURCHASE AND OPERATION OF A SUPERCONDUCTING ROCK MAGNETOMETER (A034111); 12 MONTHS \$16,000

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

KENNETT, JAMES P, AND WATKINS, NORMAN D; PALEOMAGNETIC POLARITY HISTORY AND BIOSTRATIGRAPHY OF SELECTED UPPER TERTIARY-QUATERNARY MARINE SEQUENCES IN NEW ZEALAND (A027082 001); 12 MONTHS \$30,300

SCOTLAND

UNIVERSITY OF EDINBURGH

ARNOLD, E P; THE INTERNATIONAL SEISMOLOGICAL CENTRE (A018222 002); 12 MONTHS \$37,500

SOUTH CAROLINA

CLEMSON UNIVERSITY

GRIFFIN, VILLARD S JR; ANALYSIS OF THE STRUCTURAL, PETROLOGIC AND STRATIGRAPHIC INTERRELATIONSHIPS BETWEEN THE INNER PIEDMONT, KINGS MOUNTAIN, CHARLOTTE AND CAROLINA SLATE BELTS IN SOUTH CAROLINA (A014184 001); 18 MONTHS \$20,100

UNIVERSITY OF SOUTH CAROLINA

CONOLLY, JOHN R, KANES, WILLIAM H, AND FERM, JOHN C; INITIAL RIFTING OF EUROPE AND AFRICA AND GROWTH AND FOLDING OF THE JURASSIC ATLAS SEA, MOROCCO (F032510 X00*); 36 MONTHS \$20,700

TEXAS

RICE UNIVERSITY

BURCHFIELD, B C; STRUCTURAL DEVELOPMENT OF THE SOUTHERN CORDILLERAN OROGEN (A013375 001); 24 MONTHS \$29,200

CLARK, H C; PALEOMAGNETISM AND THE EVOLUTION OF MIDDLE AMERICA - A STUDY OF OAXACA STATE, SOUTHWESTERN MEXICO (A031904); 24 MONTHS \$33,900

BAKER, DONALD R; THE DISTRIBUTION AND NATURE OF CARBON IN IGNEOUS ROCKS AND MANTLE DERIVED MATERIALS (A033336); 24 MONTHS \$28,000

SOUTHERN METHODIST UNIVERSITY

BLACKWELL, DAVID D; HEAT FLOW AND CRUSTAL RADIOACTIVITY STUDIES IN THE NORTHWESTERN U.S. (A013351 002); 24 MONTHS \$70,200

BLACKWELL, DAVID D; HEAT FLOW STUDIES IN SOUTHERN MEXICO (A030590); 24 MONTHS \$35,300

TEXAS A & M UNIVERSITY

STANTON, ROBERT J JR; PALEOECOLOGY OF THE MARINE PLEISTOCENE OF THE PACIFIC COAST (A030746); 24 MONTHS \$27,400

UNIV OF TEXAS AT AUSTIN

PARKER, PATRICK L; VARIATIONS IN STABLE CARBON, OXYGEN AND NITROGEN ISOTOPES RATIOS IN NORMAL AND POLLUTED BIOGEOCHEMICAL SYSTEMS (A011111 001); 24 MONTHS \$44,000

MAXWELL, JOHN C; EMBLACEMENT OF FRANCISCAN-TYPE ROCKS AND ORIGIN OF RELATED MAFIC AND ULTRAMAFIC ROCKS (A041322 001); 12 MONTHS \$12,400

MCBRIDE, EARLE F; SEDIMENT PARTICLE MOTION AND THE ORIGIN OF BEDDING IN UNIDIRECTIONAL CURRENT FLOW INVESTIGATED BY USE OF HIGH SPEED MOTION PICTURE PHOTOGRAPHY (A050351); 12 MONTHS \$9,700

SMITH, DOUGLAS; PETROGRAPHIC AND ELECTRON MICROPROBE STUDY OF IRON-RICH PYROXENES AND OLIVINES (A031043); 18 MONTHS \$23,200

BARKER, DANIEL S, AND LONG, LEON E; PETROLOGY AND GEOCHRONOLOGY OF CENOZOIC INTRUSIVE ROCKS, TRANS-PECOS PROVINCE, TEXAS (A010049); 24 MONTHS \$42,700

UNIV OF TEXAS AT DALLAS

HELSLEY, CHARLES E; PALEOMAGNETIC STUDIES ON STRATIGRAPHIC SEQUENCES OF PALEOZOIC AND MESOZOIC AGES FROM THE WESTERN U. S. (A015389 001); 24 MONTHS \$90,000

LANDISMAN, MARK; MULTI-DISCIPLINARY STUDIES OF STABLE AND TECTONICALLY ACTIVE REGIONS OF THE CRUST AND UPPER MANTLE IN THE UNITED STATES (A043483 001); 12 MONTHS \$88,000

HALES, ANTON L; A FIELD PROGRAM FOR THE DETERMINATION OF THE UPPER MANTLE SHEAR VELOCITY (A021394); 24 MONTHS \$80,000

UTAH

BRIGHAM YOUNG UNIVERSITY

BEST, MYRON G; MANTLE-DERIVED INCLUSIONS IN BASALTS (A015088 001); 24 MONTHS \$28,000

HAMBLIN, W KENNETH, AND BEST, MYRON G; K-AR DATES AND PALEOMAGNETIC MEASUREMENTS IN THE LATE CENOZOIC BASALTS IN THE WESTERN GRAND CANYON (A041035); 12 MONTHS \$10,000

UNIVERSITY OF UTAH

SMITH, ROBERT B, AND GOODWIN, JONATHAN H; SEISMIC AND MAGNETIC PROFILING OF INLAND LAKES, WESTERN UNITED STATES (A014470 001); 24 MONTHS \$35,600

COOK, KENNETH L; OPERATION OF UINTA BASIN SEISMOLOGICAL OBSERVATORY (A041120 002); 7 MONTHS \$30,000

COOK, KENNETH L; GRAVITY STUDIES IN UTAH (INCLUDING BOUGUER GRAVITY MAP OF UTAH) (A020182); 24 MONTHS \$16,000

NACKOWSKI, MATTHEW P, AND WARD, STANLEY H; MULTIFREQUENCY ELECTROMAGNETIC EXPLORATION (A031081); 18 MONTHS \$42,800

SHUEY, RALPH T; QUANTITATIVE INTERPRETATION OF REGIONAL MAGNETIC ANOMALIES (A041300); 24 MONTHS \$17,600

WARD, STANLEY H, NASH, WILLIAM P, AND SHUEY, R T; STUDY OF ELECTRICAL PROPERTIES OF ROCKS AND ORES (A031371); 24 MONTHS \$50,000

PERLA, RONALD I; AN INVESTIGATION OF THE STRESS IN NATURAL SNOW SLABS (A031331); 12 MONTHS \$12,500

VIRGINIA

VIRGINIA POLYTECHNIC INSTITUTE

GILBERT, M CHARLES; EXPERIMENTAL DETERMINATION OF AMPHIBOLE STABILITY AND AMPHIBOLE MISCIBILITY GAPS (A014179 001); 24 MONTHS \$31,800

GIBBS, O V, AND RIBBE, P H; BONDING IN MINERALS WITH TETRAHEDRAL IONS (A030584 X00); 12 MONTHS \$55,800

SINHA, AKHAURY K, AND GLOYER, LYNN III; U-PB GEOCHRONOLOGY OF THE CENTRAL AND SOUTHERN APPALACHIANS AND PBU-TH STUDIES OF IRON METEORITES (A011172); 12 MONTHS \$34,800

HEWITT, DAVID A; EXPERIMENTAL STUDY OF BIOTITE PHASE EQUILIBRIA (A021247); 24 MONTHS \$39,700

BLOSS, F DONALD; NEW THERMO-OPTICAL TECHNIQUES AND THEIR APPLICABILITY TO CORDIERITE AND FELDSPAR PROBLEMS (A021144); 24 MONTHS \$34,500

WASHINGTON

UNIVERSITY OF WASHINGTON

PORTER, STEPHEN C; VOLCANIC STRATIGRAPHY AND GEOCHRONOLOGY, WEST RIFT ZONE OF MAUNA KEA VOLCANO, HAWAII (A020280 001); 12 MONTHS \$11,600

EVANS, BERNARD W; PETROLOGIC STUDIES OF ULTRAMAFIC ROCKS (A029767 001); 12 MONTHS \$30,000

HENNES, R G; INTERNATIONAL CONFERENCE ON MICROZONATION (K043312*); 12 MONTHS \$6,000

WESTERN WASHINGTON STATE COLLEGE

BABCOCK, R S, AND BROWN, E H; ORIGIN OF MIGMATITES IN THE GRAND CANYON (A031232); 24 MONTHS \$29,700

BECK, MYRL E JR; ROCK MAGNETISM AND TECTONICS OF THE TWIN SISTERS DUNITE (A031895); 12 MONTHS \$8,100

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

GUIDOTTI, CHARLES V; PETROLOGY AND MINERALOGY OF THE PELTIC SCHISTS OF NORTHWESTERN MAINE (A013415 001); 24 MONTHS \$25,400

CRADDOCK, CAMPBELL; MECHANICS AND HISTORY OF THE DENALI FAULT, ALASKA (A020986 001); 24 MONTHS \$50,000

BENTLEY, CHARLES R; STUDY OF IMPROVEMENTS IN MAGNETOTELLURIC ANALYSIS AND MODELING TECHNIQUES (A020771); 12 MONTHS \$59,000

DOTT, R H JR; MODERN AND ANCIENT GEOSYNCLINAL SEDIMENTATION (A031421); 12 MONTHS \$13,900

BAILLY, STURGES W; STRUCTURES OF LAYER SILICATE MINERALS (A024973); 24 MONTHS \$37,500

UNIVERSITY OF WISCONSIN, MILWAUKEE

WOLD, RICHARD J; SUB-BOTTOM SEISMIC PROFILING OF INLAND LAKES (A030746); 12 MONTHS \$53,400

WYOMING

UNIVERSITY OF WYOMING

SMITHSON, SCOTT B; THREE-DIMENSIONAL STUDIES OF GRANITIC PLUTONS (A012271 001); 24 MONTHS \$30,900

SHIVE, PETER N; MOSSBAUER STUDIES OF MAGNETIC MINERALS (A013728 001); 24 MONTHS \$33,000

SURDAM, RONALD C; THE DEPOSITIONAL ENVIRONMENT OF THE GREEN RIVER FORMATION (A031732); 24 MONTHS \$55,100

OCEANOGRAPHY

PHYSICAL OCEANOGRAPHY AND MARINE CHEMISTRY

ALASKA

UNIVERSITY OF ALASKA-INSTITUTE OF MARINE SCIENCE

KINNEY, P J, AND HOSKINS, L C; TRANSITION METAL COMPLEXATION IN SEA WATER (A031174); 12 MONTHS \$61,400

ROYER, THOMAS C; EVALUATION OF LONG PERIOD SURFACE WAVES IN THE GULF OF ALASKA (A031546); 24 MONTHS \$104,800

MEROY, C PETER, AND GOERING, JOHN J; OCEANOGRAPHY OF THE BERING SEA- PHASE II- PRIMARY PRODUCTIVITY AND FOOD CHAINS OF MARINE MAMMALS (A033387 001*); \$5,000

CALIFORNIA

UNIVERSITY OF CALIFORNIA, DAVIS

MYRUP, LEONARD O, POWELL, THOMAS, RICHESON, PETER J, AND MORGAN, DONALD L; SPATIAL AND TEMPORAL DISTRIBUTION OF LAKE PLANKTON (A031092); 18 MONTHS \$84,700

UNIVERSITY OF CALIFORNIA, LOS ANGELES

KAPLAN, ISAAC R, AND VEN-YAAKOV, S; MECHANISMS FOR CARBONATE SOLUTION IN THE OCEANS (A031104*); 12 MONTHS \$25,900

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

SHEPARD, F P; NATURE AND VELOCITY OF CURRENTS IN SUBMARINE CANYONS AND THEIR MARGINS (A019742 001); 12 MONTHS \$24,800

SMITH, RAYMOND C; MEASUREMENT OF RADIANCE DISTRIBUTIONS IN NATURAL WATERS (A019738 002); 12 MONTHS \$32,900

TYLER, JOHN E; HYDROLOGIC OPTICS (A019830 002); 12 MONTHS \$73,900

CHOW, T J; LEAD POLLUTANTS IN NEAR SHORE MARINE ENVIRONMENTS (A024501 001); 12 MONTHS \$46,000

KEELING, CHARLES D; THE ABUNDANCE OF CARBON DIOXIDE IN THE ATMOSPHERE AND ITS EXCHANGE WITH THE OCEANS (A031284 X00*); 12 MONTHS \$52,000

CONNECTICUT

YALE UNIVERSITY

VERONIS, GEORGE; PHYSICAL OCEANOGRAPHY AND GEOPHYSICAL FLUID DYNAMICS (A025745 001); 12 MONTHS \$73,100

BERNER, ROBERT A; DISSOLUTION KINETICS AND SURFACE CHEMISTRY OF CALCIUM CARBONATE IN SEA WATER (A030488 X00); 12 MONTHS \$67,900

VERONIS, GEORGE; THEORETICAL-NUMERICAL MODELS OF OCEAN CIRCULATION FOR USE WITH TRACER DISTRIBUTIONS (A024179); 12 MONTHS \$22,100

DELAWARE

UNIVERSITY OF DELAWARE

KUPPERMAN, STUART L; MEASUREMENT OF THE RESIDENCE TIME OF WATER ABOVE THE MAIN THERMOCLINE IN THE NORTH ATLANTIC BY MEANS OF A TRACER TECHNIQUE (A029732 X01); 12 MONTHS \$37,000

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (01AWDS); \$34,800

NATIONAL ACADEMY OF SCIENCES

VETTER, RICHARD C; SUPPORT OF THE SCIENTIFIC COMMITTEE ON OCEANIC RESEARCH (C101004 000); 12 MONTHS \$5,000

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

KIRWAN, A DENNIS; SUPPORT OF THE COMMITTEE ON OCEANOGRAPHY OF THE NATIONAL ACADEMY OF SCIENCES (AG0021 000*); 12 MONTHS \$3,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL
HEINDL, L A; U. S. NATIONAL COMMITTEE FOR THE INTERNATIONAL HYDROLOGICAL DECADE (C101153 003*); 12 MONTHS \$30,000

FLORIDA

FLORIDA STATE UNIVERSITY

HSUEH, Y; THE STUDY OF BOUNDARY JETS IN A ROTATING WATER TUNNEL- WITH APPLICATION TO OCEAN CURRENTS (A026543 001); 12 MONTHS \$20,000

O'BRIEN, JAMES J; DYNAMIC MODELS OF THE CONTINENTAL SHELF CIRCULATION (1) (A021713 001); 12 MONTHS \$48,000

NOVA UNIVERSITY

NIILER, PEARL P, AND MOORE, DENNIS W; PLANETARY AND INTERNAL GRAVITY WAVES (A014488 000); 12 MONTHS \$73,600

WEATHERLY, GEORGES L; STUDY ON THE TIME-DEPENDENT TURBULENT EKMAN LAYER (A031772); 8 MONTHS \$13,300

RICHARDSON, WILLIAM S, NIILER, PEARL P, AND WIMBUSH, MARK; EXPERIMENTAL STUDIES OF THE GENERATION OF WATER MOVEMENTS ON THE CONTINENTAL SHELF BY STRONG METEOROLOGICAL DISTURBANCES (A031149); 12 MONTHS \$270,600

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL EXPERIMENT STATION

SHEMDIN, O H; LABORATORY INVESTIGATION OF GENERATION AND GROWTH OF WIND WAVES (K031603 001*); \$39,500

UNIVERSITY OF MIAMI-SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES

MILLERO, FRANK J; STUDY OF IONIC INTERACTIONS IN SEAWATER (A017388 002); 24 MONTHS \$81,100

MOOERS, CHRISTOPHER N K; OCEANIC FRONTS AND THEIR PERTURBATIONS (A027810 X01); 12 MONTHS \$26,100

ESTOQUE, M A; MESOMETEOROLOGICAL EFFECTS OF LAKE ONTARIO (A031209); 12 MONTHS \$52,300

ROOTH, CLAES, AND OSTLUND, GOTE; STUDIES OF OCEANIC EXCHANGE BASED ON THE GLOBAL TRITIUM TRANSIENT (A031982 X00); 12 MONTHS \$67,000

SEGAR, DOUGLAS A; STUDIES OF THE CHEMISTRY OF SEAWATER OVERLYING AREAS OF HIGH HEAT FLOW (A033003); 12 MONTHS \$28,400

DUING, WALTER; EXCHANGE PROCESSES ON CONTINENTAL SHELVES INDUCED BY BAROTROPIC AND BAROCLINIC LONG WAVES (A034009); 12 MONTHS \$215,600

HAWAII

UNIVERSITY OF HAWAII

CHAVE, KEITH E, AND KAY, E ALISON; ECOLOGICAL AND GEOLOGICAL STUDIES OF FANNING ISLAND (A041111*); 12 MONTHS \$21,650

ILLINOIS

UNIVERSITY OF CHICAGO

PLATZMAN, GEORGE W; GLOBAL OSCILLATIONS OF THE WORLD'S OCEANS (A021993 001); 24 MONTHS \$94,800

MARYLAND

NONE; OTHER PROGRAM AWARDS (01AWDS); \$2,165

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

AUSTIN, THOMAS S; WORLD DATA CENTER A FOR OCEANOGRAPHY (AG00317); 12 MONTHS \$102,100

MASSACHUSETTS

AMHERST COLLEGE

BENSON, BRUCE B; MASS SPECTROMETRIC AND MANOMETRIC STUDIES OF THE OCEANS AND THE ATMOSPHERE (A093317 002); 12 MONTHS \$61,300

HARVARD UNIVERSITY

LI, YUAN-HUI; DETERMINATION OF THE APPARENT DISSOCIATION CONSTANTS OF CARBONIC ACIDE (K₁' AND K₂') IN SEA WATER (A030117); 12 MONTHS \$16,100

SIEVER, RAYMOND; THE DISTRIBUTION OF CADMIUM IN THE OPEN NORTH ATLANTIC OCEAN (A333001); 24 MONTHS \$19,500

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

STOMMEL, HENRY M; RESEARCH IN OCEANIC PHYSICS (A030728 X00); 12 MONTHS \$176,900

WUNSCH, CARL; SEA LEVEL AND TIDES (A028970); 12 MONTHS \$44,500

WOODS HOLE OCEANOGRAPHIC INSTITUTION

BREWER, PETER G, AND SPENCER, DEREK W; TRACE ELEMENT DISTRIBUTIONS IN THE OCEAN (A013574 001); 24 MONTHS \$106,700

BRUCE, JOHN G; STUDY OF THE SOMALI CURRENT AND ASSOCIATED CIRCULATION DURING THE SOUTHWEST MONSOON (A017319 001); 12 MONTHS \$34,000

VOORHIS, ARTHUR D; ACOUSTIC DROPSONDE TO STUDY THE OCEANIC CIRCULATION (A018533 001); 6 MONTHS \$7,600

METCALF, WILLIAM G; CARIBBEAN SEA INFLOW INVESTIGATION (A027829 001); 6 MONTHS \$103,000

SAYLES, FREDERICK L; SEA WATER - SEDIMENT INTERACTION- THE DIFFUSIVE FLUXES OF IONS BETWEEN THE OCEANS AND THE UNDERLYING SEDIMENTS (A032243*); 12 MONTHS \$19,150

MICHIGAN

UNIVERSITY OF MICHIGAN

MONHAN, EDWARD C; DOCTORAL DISSERTATION RESEARCH IN OCEANOGRAPHY (A031557); 6 MONTHS \$2,600

NEVADA

DESERT RESEARCH INSTITUTE

TELFORD, JAMES W; APPLICATION OF THE BUFFALO RESEARCH SYSTEM TO ATTAIN IFYGL LAKE METEOROLOGY OBJECTIVES (A032806); 12 MONTHS \$79,300

NEW JERSEY

PRINCETON UNIVERSITY

STEGEN, GILBERT R; THREE-DIMENSIONAL STRUCTURE OF THE THERMOCLINE (A031970); 12 MONTHS \$21,400

NEW YORK

CORNELL AERONAUTICAL LABORATORY

PIECH, KENNETH R; OPTICAL PROPERTIES OF LAKE ONTARIO (A032907); 12 MONTHS \$36,500

UNIVERSITY OF ROCHESTER

DIMENT, WILLIAM H; TRANSPORT PROCESSES WITHIN THE ROCHESTER EMBAYMENT OF LAKE ONTARIO (A032809); 12 MONTHS \$78,600

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

BROECKER, WALLACE S; GAS EXCHANGE RATE STUDIES (A031124); 12 MONTHS \$52,500

NEW YORK UNIVERSITY-UNIVERSITY HEIGHTS CENTER

FREY, HENRY R; INVESTIGATION OF NATURALLY OCCURRING WATERBORNE TURBULENCE BY STEREPHOTOGRAMMETRY (A025741); 12 MONTHS \$22,500

OHIO

UNIVERSITY OF CINCINNATI

MARK, HARRY B JR; IN SITU ANALYSIS OF TRACE METAL IONS IN SEA WATER SYSTEMS (A023583 001); 12 MONTHS \$12,100

OREGON

OREGON STATE UNIVERSITY

BYRNE, JOHN V; AIR-SEA GAS EXCHANGE OFF OREGON (A018112 002); 2 MONTHS \$10,000

NESHYBA, STEVE, AND NEAL, V T; NATURE AND CAUSES OF THE LAMINAR STRUCTURE (A027441 001); 12 MONTHS \$30,100

CALDWELL, DOUGLAS R; TIME FLUCTUATIONS IN OCEAN CURRENTS (A030712); 24 MONTHS \$43,100

PENNSYLVANIA

PENNSYLVANIA STATE UNIVERSITY

ALLEN, JOHN S; THREE-DIMENSIONAL MODEL OF UPWELLING IN A STRATIFIED OCEAN (A030397); 24 MONTHS \$58,100

PANOFSKY, HANS A; STRUCTURE OF TURBULENCE (A032803); 12 MONTHS \$48,400

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND

LAMBERT, RICHARD B JR, AND STERN, MELVIN E; STUDIES OF VERTICAL MIXING IN THE OCEAN (A027272 001); 12 MONTHS \$49,900

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

KESTER, DANA R; THE COLLIGATIVE PROPERTIES OF SEAWATER (A012810 001); 12 MONTHS \$19,100

- PILSON, MICHAEL E Q; *DIFFUSION FROM SEDIMENTS* (A02111 001*); 24 MONTHS \$19,100
 DUCE, ROBERT A; *SYMPOSIUM ON NON-GASEOUS CHEMICAL TRANSPORT FROM OCEAN TO ATMOSPHERE* (A030350); 12 MONTHS \$6,400
 KNAUSS, JOHN A; *OBSERVATIONS OF EQUATORIAL CURRENTS IN THE ATLANTIC OCEAN* (A02040); 24 MONTHS \$35,000
 PILSON, MICHAEL E Q; *ARSENIC SPECIATION IN SEAWATER* (A031097); 24 MONTHS \$30,800

TEXAS

- GULF UNIVERSITY RESEARCH CONSORTIUM
 BILHORN, THOMAS W; *THE DYNAMICS OF CIRCULATIONS ON A CONTINENTAL SHELF* (A031008); 12 MONTHS \$38,000
 TEXAS A & M UNIVERSITY
 JEFFREY, LELA M; *ORGANIC COMPOSITION OF NATURAL WATERS* (A031111); 12 MONTHS \$32,300

UTAH

- UNIVERSITY OF UTAH
 LIN, ANCHING; *AN IN-SITU STUDY OF DIFFUSION IN THE HALOCLINE OF THE GREAT SALT LAKE* (A030883); 18 MONTHS \$31,300

WASHINGTON

- LARSEN, LAWRENCE; *OTHER PROGRAM AWARDS (O)AWDS*; 18 MONTHS \$43,500
 UNIVERSITY OF WASHINGTON
 COACHMAN, LAWRENCE K; *PHYSICAL OCEANOGRAPHY OF THE BERING SEA* (A01114 001); 24 MONTHS \$135,400
 SMITH, J DUNCAN; *A FIELD INVESTIGATION OF TIDAL AND RIVER FLOW OVER NON-UNIFORM BOUNDARIES* (A011178 002*); 24 MONTHS \$64,600
 RATTRAY, MAURICE JR. AND LARSEN, LAWRENCE H; *MARINE HYDRODYNAMICS* (A021092 004); 4 MONTHS \$11,700
 LEE, FANG AN; *STUDIES IN WIND-GENERATED WAVES* (A02101 001); 12 MONTHS \$20,400
 RATTRAY, MAURICE JR. AND LARSEN, LAWRENCE H; *STUDIES IN MARINE HYDRODYNAMICS* (A030745 X00); 12 MONTHS \$109,600
 EWART, TERRY E; *OPEN OCEAN DIFFUSION STUDIES* (A031310); 12 MONTHS \$56,000
 BUSINGER, JOOST A; *INTERNATIONAL FIELD YEAR OF THE GREAT LAKES* (A031205); 12 MONTHS \$60,800
 HASSELMANN, ERWIN D; *EXPONENTIAL GROWTH OF WAVES GENERATED BY A TURBULENT WIND* (A031179); 12 MONTHS \$21,000

WISCONSIN

- UNIVERSITY OF WISCONSIN, MADISON
 LYONS, WALTER A; *THE USE OF SATELLITE AND SURFACE ALL-SKY PHOTOGRAPHY DATA IN DETERMINING THE SOLAR INSOLATION CLIMATOLOGY OF LAKE ONTARIO* (A021208); 12 MONTHS \$36,900
 GREEN, THEODORE III, AND RAGOTZKIE, ROBERT A; *STUDY OF THE KEWEENAW CURRENT AND ITS ROLE IN THE CIRCULATION OF LAKE SUPERIOR* (A031140); 18 MONTHS \$141,100
 UNIVERSITY OF WISCONSIN, MILWAUKEE
 RAO, DESIRAJU B; *NUMERICAL STUDIES IN THE CIRCULATIONS AND STORM SURGES IN LAKE ONTARIO* (A031204); 12 MONTHS \$27,900

GEOLOGICAL OCEANOGRAPHY

CALIFORNIA

- CALIFORNIA STATE UNIVERSITY, HUMBOLDT
 GARLICK, G DONALD; *STABLE ISOTOPE STUDY OF AUTHIGENIC PHASES ON THE EAST PACIFIC RISE* (A032318); 24 MONTHS \$6,000
 STANFORD UNIVERSITY
 COX, ALLAN V; *SEARCH FOR SHORT GEOMAGNETIC POLARITY INTERVALS IN MARINE MAGNETIC PROFILES* (A030820); 24 MONTHS \$46,900
 UNIVERSITY OF CALIFORNIA, BERKELEY
 BURLINGAME, A L; *ANALYSES OF FATTY ACIDS, HYDROCARBONS AND RELATED ORGANIC MATTER IN THE JOIDES CORES* (A021214 001); 9 MONTHS \$33,900
 UNIVERSITY OF CALIFORNIA, LOS ANGELES
 KAPLAN, I R; *EPHENERAL PROPERTIES OF INTERSTITIAL WATER FROM THE OCEAN SEDIMENT CORING PROGRAM - CARBON (13)C(12) AND SULFUR (34)S(32) MEASUREMENTS ON DISSOLVED COMPONENTS* (A020715 001); 6 MONTHS \$15,900
 KAPLAN, ISAAC R. AND YEN-PAKOV, S; *MECHANISMS FOR CARBONATE SOLUTION IN THE OCEANS* (A031104*); 12 MONTHS \$25,000

- UNIVERSITY OF CALIFORNIA, SAN DIEGO
 SPIESS, F N, AND MUDIE, J D; *SAMOAN PASSAGE STUDIES* (A031109); 24 MONTHS \$66,000

- UNIVERSITY OF SOUTHERN CALIFORNIA
 GORSLINE, D S, AND DRAKE, D E; *SUSPENDED SEDIMENT STUDIES-SUBMARINE CANYONS AND CALIFORNIA CONTINENTAL MARGIN* (A031041 001); 12 MONTHS \$29,100
 GORSLINE, DONN S; *TECTONIC AND SEDIMENTOLOGICAL INVESTIGATION OF A PORTION OF THE PACIFIC CONTINENTAL MARGIN OFF BAJA CALIFORNIA* (A031033 001); 12 MONTHS \$9,600
 BANDY, ORVILLE L; *PALEO-OCEANOGRAPHIC INTERPRETATION OF SOME UNUSUALLY COMPLETE RED SEA CORES* (A030198); 12 MONTHS \$9,100
 KENYEV, THOMAS L; *THERMAL AND SEISMIC STUDIES ALONG THE CONTINENTAL BORDERLAND OF CALIFORNIA AND NORTHWESTERN MEXICO* (A000633); 12 MONTHS \$24,100
 BANDY, ORVILLE L; *VARIATIONS IN THE ZONATION OF FORAMINIFERA, RADIOLARIA, AND NANNOPLANKTON IN SELECTED CORES FROM OCEANIC BASINS* (A011143); 12 MONTHS \$36,100

- UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY
 RAITT, RUSSELL W, AND SHOR, GEORGE G JR; *SEISMIC ANISOTROPY OF THE PACIFIC MANTLE* (A019703 004); \$3,500
 SHOR, GEORGE G JR, AND RAITT, RUSSELL W; *MARINE SEISMIC REFRACTION, ANISOTROPY AND STRUCTURAL STUDIES* (A019703 003); 12 MONTHS \$68,400
 WINTERER, JACQUELINE M; *BATHYMETRY OF THE SOUTH PACIFIC* (A021343 001); 24 MONTHS \$53,700
 VACQUIER, VICTOR, AND SCLATER, JOHN G; *OCEANIC HEAT-FLOW MEASUREMENTS AND ABYSSAL TEMPERATURE VERSUS DEPTH PROFILES* (A021139 X01); 12 MONTHS \$33,000
 DAVIES, THOMAS A; *GEOLOGICAL AND GEOPHYSICAL INVESTIGATIONS IN THE WESTERN NORTH PACIFIC* (A030128); 12 MONTHS \$16,000
 HAWKINS, JAMES W JR; *GEOLOGIC AND GEOPHYSICAL STUDIES - LAU BASIN* (A030115); 12 MONTHS \$14,900
 RIEDEL, WILLIAM R; *TAXONOMIC AND STRATIGRAPHIC INVESTIGATION OF RADIOLARIANS IN SEDIMENT SEQUENCES MOSTLY FROM THE SEA-FLOOR* (A031284 X00); 12 MONTHS \$45,000
 COX, CHARLES S, PARKER, ROBERT L, AND VACQUIER, V; *ELECTROMAGNETIC STUDIES OF THE OCEAN LITHOSPHERE AND OF THE OCEAN WATER CURRENTS AT THE MODE 1 SITE* (A031142*); 24 MONTHS \$184,800
 SPIESS, F N, AND MUDIE, J D; *INVESTIGATION OF FINE-SCALE ASPECTS OF THE DEEP-SEA FLOOR* (A031177 X00); 12 MONTHS \$115,000
 RIEDEL, WILLIAM R; *CURATING OF THE DEEP-SEA GEOLOGICAL COLLECTIONS AT SCRIPPS INSTITUTION OF OCEANOGRAPHY* (A031177); 12 MONTHS \$22,200
 SCLATER, JOHN G, HAWKINS, JAMES W JR, AND WINTERER, EDWARD L; *GEOLOGICAL AND GEOPHYSICAL INVESTIGATIONS ON THE GALAPAGOS RIFT ZONE* (A031217); 19 MONTHS \$90,000
 GIESKES, JORIS M; *GEOCHEMICAL STUDIES OF MARINE SEDIMENTS AND THEIR INTERSTITIAL WATERS* (A031228); 24 MONTHS \$32,900

CONNECTICUT

- YALE UNIVERSITY
 ARMSTRONG, RICHARD L, AND TUREKIAN, KARL K; *AROMATIC DATING OF MARINE VOLCANICS AND SEDIMENTS* (A030219); 12 MONTHS \$4,600

DELAWARE

- UNIVERSITY OF DELAWARE
 GLASS, BILLY P; *GEOGRAPHICAL DISTRIBUTION, AGE OF DEPOSITION AND PHYSICAL AND CHEMICAL PROPERTIES OF DEEP-SEA MICROBES* (A031177); 12 MONTHS \$9,300

DISTRICT OF COLUMBIA

- DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH
 KIRWAN, A DENNIS; *SUPPORT OF THE COMMITTEE ON OCEANOGRAPHY OF THE NATIONAL ACADEMY OF SCIENCES* (AG00211 004*); 12 MONTHS \$5,000

FLORIDA

- UNIVERSITY OF MIAMI
 FISHER, DAVID E; *POTASSIUM-ARGON, RARE GAS STUDIES, AND FISSION TRACK ANALYSIS OF DEEP-SEA SAMPLES* (A031221 001); 12 MONTHS \$60,000
 UNIVERSITY OF SOUTH FLORIDA
 PYLE, THOMAS E; *A STUDY OF THE LITHOLOGY AND AGE OF ROCKS FROM THE YUCATAN CHANNEL AND NORTHWESTERN CARIBBEAN SEA* (A031179); 6 MONTHS \$5,400

UNIVERSITY OF MIAMI-SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES

NEUMANN, A CONRAD; SHALLOW WATER CARBONATE ENVIRONMENTS AND QUATERNARY SEA LEVELS, SOUTH FLORIDA AND BAHAMAS (A01119 001); 6 MONTHS \$37,300

EMILIANI, CESARE; ISOTOPIC PALEOTEMPERATURE RESEARCHES ON EARLY PLEISTOCENE AND PRE-PLEISTOCENE DEEP-SEA DRILL CORES (A01124 001); 12 MONTHS \$118,600

BOSTROM, KURT; ORIGIN AND GEOCHEMICAL HISTORY OF ACTIVE RIDGE SEDIMENTS (A01124 002); 12 MONTHS \$70,000

EMILIANI, CESARE; CURATING OF MARINE GEOLOGICAL COLLECTIONS AND THIN-SECTIONING OF OCEANIC ROCKS (A01124 003); 12 MONTHS \$22,000

BOCK, WAYNE D; BENTHONIC FORAMINIFERA AS PALEOTECTONIC AND PALEOECOLOGIC INDICATORS IN SOME OCEAN SEDIMENT CORES INCLUDING CORES OF THE NATIONAL OCEAN SEDIMENT CORING PROGRAM (A01131 001); \$5,400

EMILIANI, CESARE; ACQUISITION OF SELECTED PISTON CORES FROM THE GULF OF MEXICO AND CARIBBEAN (A011308); 12 MONTHS \$8,700

HAY, WILLIAM W, AND MARZALEK, DONALD S; IDENTIFICATION OF FOSSILS FOR PROBABILISTIC BIOSTRATIGRAPHY (A011349 X00); 12 MONTHS \$59,100

BONATTI, ENRICO; PETROLOGY AND GEOCHEMISTRY OF IGNEOUS ROCKS FROM OCEANIC RIDGES (A011317); 12 MONTHS \$60,000

GEORGIA
SKIDAWAY INSTITUTE OF OCEANOGRAPHY

HOWARD, JAMES D; COMPARISON OF ANCIENT AND MODERN COASTAL CLASTIC SEDIMENTARY ENVIRONMENTS (A010583); 12 MONTHS \$13,800

HAWAII
UNIVERSITY OF HAWAII

WOOLLARD, GEORGE P; SCIENTIFIC SUPPORT FOR DEEP SEA DRILLING PROJECT SITE SURVEYS (A011341 001); 12 MONTHS \$50,000

WOOLLARD, GEORGE P; FOR REDUCTION OF GEOPHYSICAL AND GEOLOGICAL DATA TAKEN 1970 CRUISE OVER THE DARWIN RISE (A010740); 12 MONTHS \$80,000

SUTTON, GEORGE, AND ANDREWS, JAMES; ANISOTROPY AND CRUSTAL STRUCTURE IN SELECTED AREAS OF THE PANAMA BASIN (A010751); 12 MONTHS \$89,300

ILLINOIS
NORTHWESTERN UNIVERSITY

LERMAN, ABRAHAM; CHEMICAL TRANSPORT MODELS IN SEDIMENTS AND WATER (A010789); 12 MONTHS \$14,700

LOUISIANA
LOUISIANA STATE UNIVERSITY, BATON ROUGE

PERKINS, BOB F; DOCTORAL DISSERTATION RESEARCH IN OCEANOGRAPHY (A011103*); 24 MONTHS \$4,400

NORTHEAST LOUISIANA UNIVERSITY

BAKER, EARL W; INVESTIGATIONS OF THE DIAGENESIS OF CHLOROPHYLL PIGMENTS IN DEEP SEA DRILLING PROJECT CORES (A011121); 9 MONTHS \$16,800

MAINE
UNIVERSITY OF MAINE, ORONO

SCHNITZER, DETMAR; ECOLOGY AND DISTRIBUTION OF ABYSSAL FORAMINIFERA (A010630); 24 MONTHS \$28,100

FINK, L K JR; MARINE GEOPHYSICAL AND GEOLOGICAL INVESTIGATIONS OF THE NORTHERN LESSER ANTILLES ISLAND ARC (A010632); 12 MONTHS \$17,400

MASSACHUSETTS
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

FREY, P A, THOMPSON, G, AND HUNT, J; INVESTIGATIONS OF SEA FLOOR BASALT AND BASEMENT ROCKS, (JOIDES) (A01124 X00); 12 MONTHS \$54,300

UNIVERSITY OF MASSACHUSETTS, AMHERST

WEBB, GREGORY W; SEISMIC PROFILER AND SAMPLE STUDY OF GRAVITY SLIDE MASSES ON CONTINENTAL SLOPE AND RISE OFF SCOTLAND SHELF AND GRAND BANKS (A011218); 3 MONTHS \$2,000

WOODS HOLE OCEANOGRAPHIC INSTITUTION

SAYLES, FREDERICK L; THE GEOCHEMISTRY OF INTERSTITIAL SOLUTIONS IN THE DEEP SEA DRILLING PROJECT CORES (A011343 001); 9 MONTHS \$37,000

VON HERZEN, R P, AND ERICKSON, A J; GEOTHERMAL INVESTIGATIONS IN OCEANIC REGIONS (A011071 001); 12 MONTHS \$41,900

THOMPSON, GEOFFREY; GEOCHEMICAL STUDY OF SUBMARINE WEATHERING OF ROCKS FROM THE MID-ATLANTIC RIDGE (A011271 001); 12 MONTHS \$17,300

HOLLISTER, CHARLES D, AND HEINMILLER, ROBERT H; SEDIMENTATION PROCESSES AND CURRENT MEASUREMENTS ON THE ANTILLES OUTER RIDGE (A011271 001); 12 MONTHS \$30,100

SAYLES, FREDERICK L; HYDROTHERMAL DEPOSITS IN THE SEDIMENTS OF THE MID-ATLANTIC RIDGE AND EAST PACIFIC RISE (A011301 001); 6 MONTHS \$7,400

BUNCE, ELIZABETH T; STUDY OF THE CRUSTAL STRUCTURE OF THE OCEANS USING SEISMIC TECHNIQUES (A011316 002); 12 MONTHS \$70,800

VON HERZEN, RICHARD P, AND ERICKSON, ALBERT J; GEOTHERMAL STUDIES IN DEEP-SEA DRILL HOLES (A011301 001); 12 MONTHS \$49,400

LUYENDYK, BRUCE P, AND BRYAN, WILFRED B; STRUCTURE AND HISTORY OF THE NEW HEBRIDES ISLAND ARC SYSTEM (A011347 001); \$4,800

HONJO, SUSUMU, AND EMERY, K O; SUSPENDED PARTICLES IN SEA WATER, QUALITATIVE, QUANTITATIVE STUDY BY ELECTRON MICROSCOPE (A010643); 24 MONTHS \$72,000

DEGENS, EGON T, AND VON HERZEN, RICHARD; GEOPHYSICS AND GEOCHEMISTRY OF EAST AFRICAN LAKES (A010641 X00); 12 MONTHS \$73,900

BERGREN, WILLIAM A; CENOZOIC PALEOBIOGEOGRAPHY OF THE ATLANTIC OCEAN-CALCAREOUS PLANKTON (A010713 X00); 12 MONTHS \$49,900

SAYLES, FREDERICK L; SEA WATER - SEDIMENT INTERACTION-THE DIFFUSIVE FLUXES OF IONS BETWEEN THE OCEANS AND THE UNDERLYING SEDIMENTS (A011213*); 12 MONTHS \$19,160

UCHUPI, ELAZAR, AND BALLARD, ROBERT D; CARBONIFEROUS AND MESOZOIC RIFT STRUCTURES OF THE GULF OF MAINE (A011131); 12 MONTHS \$21,600

WALL, DAVID; BIOLOGY AND PALEONTOLOGY OF MARINE DINOFLAGELLATES AND HYSTRICOSPHERES (A011106 X00*); 12 MONTHS \$28,500

MICHIGAN
UNIVERSITY OF MICHIGAN

CALLENDER, EDWARD; COLLABORATIVE RESEARCH ON THE ORIGIN OF FRESHWATER FERROMANGANESE NODULES WITH EMPHASIS ON LAKE MICHIGAN (A011119); 24 MONTHS \$30,000

NEW YORK
COLUMBIA UNIVERSITY

YASSO, WARREN E; DOCTORAL DISSERTATION RESEARCH - A STUDY OF THE DISTRIBUTION OF HEAVY METALS IN THE SEDIMENTS OF LOWER NEW YORK HARBOR (A011076); 12 MONTHS \$2,000

STATE UNIVERSITY AT BINGHAMTON

KISSLING, DON L; STRUCTURE, ECOLOGY, AND DEGRADATION OF THE FLORIDA BARRIER REEF (A010314); 24 MONTHS \$29,400

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

MCINTYRE, ANDREW, AND RUDDIMAN, WILLIAM F; CALCAREOUS PLANKTON FOR PALEOCEANOGRAPHIC, AND PALEOECOLOGIC INTERPRETATION (A011177 001); 24 MONTHS \$76,200

HAYS, JAMES D, AND GOLL, ROBERT M; BIOSTRATIGRAPHIC AND TAXONOMIC STUDIES OF LOWER TERTIARY RADIOLARIA (A011122 002); \$4,200

STREETER, S STEPHEN, MCINTYRE, ANDREW, AND HAYS, JAMES D; BENTHONIC FORAMINIFERA AND SURFACE SEDIMENTS OF THE NORTH ATLANTIC BASIN (A011213); 12 MONTHS \$18,100

EWING, M; GEOPHYSICAL INVESTIGATIONS ON A RESEARCH VESSEL OF LAMONT-DOHERTY GEOLOGICAL OBSERVATORY (A011221 001); 12 MONTHS \$627,200

EWING, JOHN I; SURVEYS OF DSDP DRILLING SITES (A011223 001); \$61,600

HAYS, JAMES D; STRATIGRAPHIC STUDIES OF DEEP-SEA SEDIMENTS (A011240 001); 4 MONTHS \$55,200

OPDYKE, NEIL D, AND LOWRIE, WILLIAM; THE PALEOMAGNETISM AND MAGNETIC PROPERTIES OF MARINE SEDIMENTS (A010389 X00); 12 MONTHS \$36,600

SCHREIBER, EDWARD, AND DALZIEL, IAN; INVESTIGATION OF SOUND VELOCITIES IN OCEANIC ROCKS (A010618); 12 MONTHS \$30,000

BRYAN, GEORGE M, AND STOLL, ROBERT D; EFFECTS OF GAS HYDRATES ON PROPERTIES OF MARINE SEDIMENTS (A010321); 12 MONTHS \$35,100

BE, ALLAN W H, BATTEN, ROGER L, AND FRERICHS, WILLIAM E; PALEOECOLOGIC AND TAXONOMIC STUDIES OF PLANKTONIC MICROORGANISMS USING SCANNING ELECTRON MICROSCOPY (A011322 X00); 12 MONTHS \$51,000

OHIO
CASE WESTERN RESERVE UNIVERSITY

DOUGLAS, ROBERT G; CENOZOIC ISOTOPIC TEMPERATURE ANALYSIS IN THE PACIFIC (A011427); 24 MONTHS \$63,100

OREGON

OREGON STATE UNIVERSITY

DYMOND, JACK R. AND HEATH, G ROSS; *PROVENANCE OF NORTH PACIFIC SEDIMENTS- A GEOCHEMICAL AND MINERALOGICAL VECTOR STUDY* (A030791 X00); 12 MONTHS \$45,700

VAN ANDEL, TJEERD H.; *A STUDY OF THE CENOZOIC DEPOSITIONAL HISTORY OF THE EASTERN EQUATORIAL PACIFIC BASED ON DEEP SEA DRILLING PROJECT CORES* (A031478); 24 MONTHS \$70,200

KOMAR, PAUL D. AND KULM, LA VERNE D; *SEDIMENTARY FACIES AND SEDIMENTARY PROCESSES IN DEEP-SEA CHANNELS, NORTHEAST PACIFIC OCEAN* (A031188); 12 MONTHS \$18,700

VAN ANDEL, TJEERD H.; *DOCTORAL DISSERTATION RESEARCH IN OCEANOGRAPHY* (A031074); 24 MONTHS \$6,200

PENNSYLVANIA

DREXEL UNIVERSITY

SUPPET, IRWIN H; *DOCTORAL DISSERTATION RESEARCH IN THE ENVIRONMENTAL SCIENCES* (A033048); 12 MONTHS \$5,300

RHODE ISLAND

BROWN UNIVERSITY

IMBRIE, JOHN; *ECOLOGY AND PALEOECOLOGY OF PLANKTONIC FORAMINIFERA IN THE INDIAN OCEAN AND INTER-OCEAN FAUNAL COMPARISONS* (A032255); 12 MONTHS \$14,600

UNIVERSITY OF RHODE ISLAND

WATKINS, NORMAN D, AND SHAW, F; *STUDY OF A POSSIBLE RELATION BETWEEN PALEOCLIMATIC CHANGES AND VOLCANIC PARTICULATE INPUT VARIATION IN HIGH LATITUDES OF THE SOUTH PACIFIC, INDIAN OCEAN, AND NORTH ATLANTIC* (A032853 001); 12 MONTHS \$33,600

HAMPTON, MONTY A; *TRANSPORT OF OCEAN SEDIMENTS BY DEBRIS FLOW* (A030677); 24 MONTHS \$21,500

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF

OCEANOGRAPHY

PILSON, MICHAEL E Q; *DIFFUSION FROM SEDIMENTS* (A023114 001*); 24 MONTHS \$19,100

KRAUSE, DALE C, AND SCHILLING, JEAN-GUY; *SUBMARINE GEOLOGY OF THE AZORES REGION* (A030477 X00); 12 MONTHS \$70,900

TEXAS

TEXAS A & M UNIVERSITY

PRESLEY, B J; *EPHEMERAL PROPERTIES OF INTERSTITIAL WATER FROM THE OCEAN SEDIMENT CORING PROGRAM* (A032504 001); 9 MONTHS \$18,800

FAHLQUIST, DAVIS A, AND GANGI, ANTHONY F; *HIGH RESOLUTION, DEEP SEISMIC REFLECTION STUDIES IN THE GULF OF MEXICO AND CARIBBEAN* (A030426); 12 MONTHS \$28,400

UNIV OF TEXAS AT DALLAS

MITTERER, RICHARD M; *INVESTIGATION OF CALCIFICATION MECHANISM IN SKELETAL AND NON-SKELETAL CARBONATES* (A030495); 24 MONTHS \$41,300

WASHINGTON

UNIVERSITY OF WASHINGTON

SMITH, J DUNGAN; *A FIELD INVESTIGATION OF TIDAL AND RIVER FLOW OVER NON-UNIFORM BOUNDARIES* (A031418 008*); 24 MONTHS \$64,600

LING, HSIN YI; *SILICOFAGELLATES FROM THE NORTHWESTERN PACIFIC DEEP-SEA CORE SEDIMENTS* (A028488 001); 12 MONTHS \$27,700

LISTER, C R B; *HEAT-FLOW VARIATIONS ACROSS TRANSFORM FAULTS AND AT RIDGE JUNCTIONS* (A031717 001); 12 MONTHS \$27,000

CREAGER, JOE S; *STRATIGRAPHY OF THE UNCONSOLIDATED SEDIMENTS ON THE CONTINENTAL SHELVES OF THE LAPTEV, EAST SIBERIAN AND BERING SEAS* (A018002 001); 12 MONTHS \$84,200

STERNBERG, RICHARD W; *FIELD INVESTIGATIONS OF BOUNDARY-LAYER FLOW AND SEDIMENT TRANSPORT IN THE SHALLOW MARINE ENVIRONMENT* (A032841 001); 12 MONTHS \$23,600

MCMANUS, DEAN A; *TRANSPORTATION, DEPOSITION, AND ACCUMULATION OF FINE-GRAINED SEDIMENT ON A DEEP-SEA FAN* (A030537); 12 MONTHS \$56,600

CARPENTER, ROY, AND PIPER, DAVID Z; *GEOCHEMICAL STUDIES OF FERROMANGANESE NODULES AND ASSOCIATED SEDIMENTARY PHASES* (A030538); 12 MONTHS \$28,900

ECHOLS, RONALD J; *STUDIES OF ARCTIC SUBLITTORAL FORAMINIFERA* (A031009); 12 MONTHS \$20,500

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

BOWSER, CARL J; *COLLABORATIVE RESEARCH ON THE ORIGIN OF FRESHWATER FERROMANGANESE NODULES WITH EMPHASIS ON LAKE MICHIGAN* (A031440); 24 MONTHS \$34,700

WYOMING

UNIVERSITY OF WYOMING

DREYER, JAMES J; *DIAGENETIC REACTIONS OF SILICATES IN CORES TAKEN BY THE DEEP SEA DRILLING PROJECT* (A033569); 24 MONTHS \$36,900

BIOLOGICAL OCEANOGRAPHY

ALASKA

UNIVERSITY OF ALASKA-INSTITUTE OF MARINE SCIENCE

MCROY, C PETER; *PRODUCTIVITY AND NUTRIENT CYCLING OF SEA GRASSES* (A030480); 24 MONTHS \$45,200

MCROY, C PETER, AND GOERING, JOHN J; *OCEANOGRAPHY OF THE BERING SEA- PHASE II- PRIMARY PRODUCTIVITY AND FOOD CHAINS OF MARINE MAMMALS* (A033387); 12 MONTHS \$76,000

MCROY, C PETER, AND GOERING, JOHN J; *OCEANOGRAPHY OF THE BERING SEA- PHASE II- PRIMARY PRODUCTIVITY AND FOOD CHAINS OF MARINE MAMMALS* (A033387 001*); \$0

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

LOWENSTAM, HEINZ A; *NON-CARBONATE MINERALS PRECIPITATED BY MARINE ORGANISMS* (A028151 001); 12 MONTHS \$50,000

CALIFORNIA STATE UNIVERSITY, SAN DIEGO

EBERT, THOMAS A; *THE ROLE OF SEA URCHINS IN THE KELP-BED COMMUNITY* (A030889); 24 MONTHS \$61,400

STANFORD UNIVERSITY

GILMARTIN, MALVERN, AND KVEDER, SERGUEI; *PRIMARY PRODUCTION OF THE NORTHERN ADRIATIC SEA* (A031271 X00); 15 MONTHS \$45,500

UNIVERSITY OF CALIFORNIA, DAVIS

HAMNER, WILLIAM M III; *NATURAL HISTORY OF BLUE WATER PLANKTON* (A033117); 12 MONTHS \$41,700

UNIVERSITY OF CALIFORNIA, IRVINE

STEPHENS, GROVER C, AND NORTH, BARBARA B; *ROLE OF DISSOLVED ORGANIC NITROGEN IN MARINE PHYTOPLANKTON NUTRITION* (A033301 X00); 12 MONTHS \$38,900

UNIVERSITY OF CALIFORNIA, SAN DIEGO

THOMAS, WILLIAM H; *EFFECTS OF NUTRIENTS ON THE GROWTH OF MARINE PHYTOPLANKTON* (A031529 X00); 12 MONTHS \$54,000

BEERS, JOHN R, AND MULLIN, MICHAEL M; *HOLOGRAPHIC INSTRUMENTATION FOR MARINE PLANKTON STUDIES* (A031450); 12 MONTHS \$35,200

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

CHILDRESS, JAMES J; *STUDIES ON THE ECOLOGICAL PHYSIOLOGY OF MIDWATER CRUSTACEANS* (A033232); 24 MONTHS \$76,200

NOBLE, ELMER R; *PARASITISM IN DEEP BENTHIC MARINE FISHES* (A031141); 24 MONTHS \$68,000

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

PIERCE, RICHARD W; *COMPARATIVE STUDY OF PHYSIOLOGICAL ADAPTATIONS OF MARINE MAMMALS* (A031297); 24 MONTHS \$50,800

STANFORD UNIVERSITY-HOPKINS MARINE STATION

GILMARTIN, MALVERN; *DOCTORAL DISSERTATION RESEARCH ON A STUDY OF THE WATER MASS PHENOMENON AND ITS EFFECTS ON THE COMPOSITION OF COMMUNITIES OF MIDWATER FISHES* (A030183); 18 MONTHS \$1,200

LEE, WELTON L; *DOCTORAL DISSERTATION RESEARCH IN BIOLOGICAL OCEANOGRAPHY* (A031142); 24 MONTHS \$1,200

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

DAYTON, PAUL K; *FUNCTIONAL STUDIES OF THE ORGANIZATION OF KELP COMMUNITIES* (A030877); 24 MONTHS \$69,100

FLEMINGER, ABRAHAM; *DISTRIBUTION AND BIOLOGY OF PACIFIC ZOOPLANKTON* (A031094); 12 MONTHS \$13,900

MCGOWAN, JOHN A; *ECOLOGY OF SMALL SQUID IN THE EPYFELAGIC ZONE OF THE EASTERN TROPICAL PACIFIC* (A031095); 12 MONTHS \$9,800

EPFLEY, RICHARD W; *KINETICS OF NITROGEN ASSIMILATION BY MARINE PHYTOPLANKTON* (A031187 X00); 12 MONTHS \$66,200

HESSLER, ROBERT R; *STUDIES ON THE DEEP-SEA BENTHOS* (A03144 X00); 12 MONTHS \$59,100

BADA, JEFFREY L; *AMINO ACIDS IN SEA WATER* (A031488); 12 MONTHS \$33,100

BRINTON, EDWARD; *DISTRIBUTION, LIFE HISTORIES, AND BIOLOGY OF EUPHAUSIACEA AND SERGESTIDAE* (A031783); 24 MONTHS \$86,200

HESSLER, ROBERT R; *DOCTORAL DISSERTATION RESEARCH IN INVESTIGATIONS OF TEMPORAL AND SPATIAL VARIATION IN THE DEEP SEA BENTHOS* (A031489); 24 MONTHS \$4,200

LEWIN, RALPH A; LEAD- ITS EFFECTS ON MARINE PHYTOPLANKTON (A033290); 24 MONTHS \$43,700

GAREY, WALTER F; ADMINISTRATIVE AND SUPPORT FUNCTIONS OF THE ALPHA HELIX RESEARCH PROGRAM (A033438); 12 MONTHS \$20,000

BENSON, ANDREW A; WAX ESTERS IN THE ECONOMY OF MARINE ECOSYSTEMS (B034321 001); \$10,800

UNIVERSITY OF THE PACIFIC-PACIFIC MARINE STATION

BLAKE, JAMES A; LARVAL DEVELOPMENT OF MARINE INVERTEBRATES FROM THE NORTHERN CALIFORNIA COAST (A030900); 24 MONTHS \$46,000

OBREBSKI, STEVEN; POPULATION INTERACTIONS IN TWO MARINE TREMATODE-MOLLUSC PARASITE-HOST SYSTEMS (A033438); 24 MONTHS \$43,300

CONNECTICUT

HABKINS LABORATORIES INC

PROVASOLI, LUIGI; NUTRITIONAL RELATIONSHIPS AMONG MARINE ORGANISMS (A033280 X00); 12 MONTHS \$96,400

UNIVERSITY OF CONNECTICUT

FRANKEL, LARRY; COMMUNITY TROPHIC STRUCTURE OF ESTUARINE FORAMINIFERA (A032007); 24 MONTHS \$15,400

YALE UNIVERSITY

HARTMAN, WILLARD D; DOCTORAL DISSERTATION RESEARCH IN BIOLOGICAL OCEANOGRAPHY (A030979); 24 MONTHS \$2,600

DISTRICT OF COLUMBIA

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

KIRWAN, A DENNIS; SUPPORT OF THE COMMITTEE ON OCEANOGRAPHY OF THE NATIONAL ACADEMY OF SCIENCES (AG00211 000*); 12 MONTHS \$5,000

FLORIDA

FLORIDA STATE UNIVERSITY

HERRNKIND, WILLIAM F; INVESTIGATIONS OF EMIGRATIONS OF SPINY LOBSTERS, "PANULIRUS ARGUS" (A030812); 12 MONTHS \$36,600

UNIVERSITY OF SOUTH FLORIDA

SIMON, JOSEPH L; REPOPULATION OF AN INTERTIDAL COMMUNITY (A031789); 24 MONTHS \$30,700

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL EXPERIMENT STATION

ODUM, HOWARD T; ENERGY CIRCUIT MODEL AND SIMULATION OF THE SYSTEM OF THE GULF SHELF (A030792 001); \$3,400

UNIVERSITY OF FLORIDA-FLORIDA STATE MUSEUM

DEVEY, GEORGINA B; STUDIES ON DEEP-WATER ZOOPLANKTON (A031736); 12 MONTHS \$22,000

UNIVERSITY OF MIAMI-SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES

REEVE, MICHAEL R; EXPERIMENTAL STUDIES ON THE BIOLOGY OF CHAETOGNATHS AND OTHER MARINE PLANKTONIC CARNIVORES (A028522 X01); 12 MONTHS \$68,100

FELL, JACK W; BIOLOGY OF MARINE HETEROBASIDIOMYCETOUS FUNGI (A030710 001); \$3,600

KOUDE, EDWARD D; GROWTH AND SURVIVAL OF LABORATORY-REARED FISH LARVAE (A031178); 12 MONTHS \$42,000

ZILLIUX, EDWARD J; PRIMARY PLANKTONIC HETEROTROPHS (P31844 003); 24 MONTHS \$91,400

GEORGIA

UNIVERSITY OF GEORGIA

PAYNE, W J; NITRATE RESPIRATION AND NA₂O INFLUENCE IN MARINE BACTERIA (A033281); 24 MONTHS \$50,700

HAWAII

UNIVERSITY OF HAWAII

GUNDERSEN, KAARE R; BIOLOGICAL NITROGEN TRANSFORMATIONS IN THE NORTH CENTRAL PACIFIC OCEAN (A032288 001); 6 MONTHS \$20,500

CHAVE, KEITH E, AND KAY, E ALISON; ECOLOGICAL AND GEOLOGICAL STUDIES OF FANNING ISLAND (A031111*); 12 MONTHS \$21,650

YOUNG, RICHARD E; ASPECTS OF THE ECOLOGY OF MID-WATER CEPHALOPODS FROM THE WATERS OFF OAHU, HAWAII (A033632); 24 MONTHS \$54,700

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

PERKINS, BOB F; DOCTORAL DISSERTATION RESEARCH IN OCEANOGRAPHY (A031105*); 24 MONTHS \$4,300

MARYLAND

JOHNS HOPKINS UNIVERSITY

TAYLOR, W ROWLAND; THE ROLE OF DIFFERENT NITROGENOUS NUTRIENTS IN THE PLANKTON ECOLOGY OF THE CHESAPEAKE BAY (A033445); 12 MONTHS \$43,400

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

BRADLEY, BRIAN P; POPULATION BIOLOGY OF AN ESTUARINE COPEPOD (A033633); 12 MONTHS \$30,300

UNIVERSITY OF MARYLAND, COLLEGE PARK

VERMEIJ, GERAT J; AN ANALYSIS OF INTERTIDAL MOLLUSCAN MORPHOLOGY (A031777); 24 MONTHS \$32,400

MASSACHUSETTS

BOSTON UNIVERSITY

GOLUBIC, STJEPKO; ECOLOGY OF MARINE ENDOLITHIC ALGAE (A031168); 12 MONTHS \$21,900

MARINE BIOLOGICAL LABORATORY

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YENTSCH, CHARLES S; NITROGEN UPTAKE BY FUCUS SPIRALIS L. AND OTHER SELECTED MARINE MACROALGAE (A033495); 24 MONTHS \$36,300

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MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

MUHLESTEIN, LEWIS D, GINGRICH, NEWELL, TOMPSON, CLIFFORD, AND DANNER, HORACE; *ELASTIC AND INELASTIC NEUTRON DIFFRACTION STUDIES* (H033949); 6 MONTHS \$7,000

WASHINGTON UNIVERSITY

FEENBERG, EUGENE, AND CLARK, JOHN W; *THE MICROSCOPIC THEORY OF QUANTUM FLUIDS AND EXTENDED NUCLEAR SYSTEMS* (H034589); 12 MONTHS \$20,050

BOLEY, DAN I; *ULTRASONIC STUDIES IN SOLIDS* (H034688); 12 MONTHS \$10,000

NORBERG, R E, AND LUSZCZYNSKI, K; *PULSED MAGNETIC RESONANCE AND OTHER STUDIES AT LOW TEMPERATURES* (H034649); 12 MONTHS \$9,700

BOLEY, DAN I; *ACOUSTIC MAGNETIC RESONANCE* (P018711 001); 24 MONTHS \$28,800

MONTANA

MONTANA STATE UNIVERSITY

SWENSON, ROBERT J; *SUMMER WORKSHOP IN SELECTED TOPICS IN THEORETICAL PHYSICS* (H034656); 12 MONTHS \$3,400

NEW JERSEY

PRINCETON UNIVERSITY

CARVER, THOMAS R; *MAGNETIC AND OPTICAL PROPERTIES OF SOLIDS AND GASES* (H034618); 24 MONTHS \$150,000

RUTGERS UNIVERSITY

LUTHI, BRUNO; *MAGNETIC MATERIALS USING ULTRASONIC TECHNIQUES* (P016107 001); 24 MONTHS \$66,900

STEVENS INSTITUTE OF TECHNOLOGY

DAUNT, JOHN G; *BASIC AND PRACTICAL PROBLEMS IN LOW TEMPERATURE SCIENCE* (H034618); 12 MONTHS \$103,000

ROTHBERG, GERALD M; *THE MOSSBAUER EFFECT IN STUDIES OF ELECTRONIC AND VIBRATIONAL STRUCTURE* (H033726); 12 MONTHS \$14,500

MEISSNER, HANS; *SUPERCONDUCTIVITY* (H033771); 24 MONTHS \$54,000

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

LIEFELD, ROBERT J; *DENSITY OF CONDUCTION BAND STATES IN METALS FROM SOFT X-RAY CONTINUUM ISOCHROMATS* (H034546); 24 MONTHS \$44,900

NEW YORK

CITY COLLEGE

SARACHIK, MYRIAM P, AND SMITH, FREDERICK W; *MAGNETIC IMPURITY EFFECTS IN METALS* (H034671); 12 MONTHS \$40,100

COLUMBIA UNIVERSITY

NOWICK, ARTHUR S; *DEFECTS AND DEFECT MOBILITY IN IONIC CRYSTALS* (H034611); 12 MONTHS \$46,600

HARTMANN, SVEN R; *RESONANCE PHYSICS* (H034407); 12 MONTHS \$40,100

CORNELL UNIVERSITY

RHODIN, THOR N; *ELECTRON AND ATOM INTERACTIONS AT CRYSTAL SURFACES* (H031809); 24 MONTHS \$61,100

HOLCOMB, D F; THE INSULATOR-METAL TRANSITION IN DISORDERED SYSTEMS (H031140); 19 MONTHS \$50,900
 BLAKELY, J M; STUDIES IN GAS ADSORPTION AND SOLUTE SEGREGATION AT SOLID SURFACES (H031133 X00); 12 MONTHS \$48,200
 SILCOX, JOHN; FLUX LINE STRUCTURES IN SUPERCONDUCTORS (H031131); 12 MONTHS \$24,900
 RICHARDSON, R C; QUANTUM CRYSTALS CONFERENCE (P030375); 12 MONTHS \$5,000
 MELKIN, MARK; DYNAMICAL THEORY OF DISORDERED SYSTEMS (P031143); 24 MONTHS \$36,900

FORDHAM UNIVERSITY

SKALSKI, STANISLAUS; NUCLEAR MAGNETIC RESONANCE IN FERROMAGNETIC METALS AND ALLOYS (P031223 002); \$2,900

INSTITUTE OF ELECTRICAL & ELECTRONIC ENGRS INC

VAN REUTH, E C; 1972 APPLIED SUPERCONDUCTIVITY CONFERENCE (H031734); 12 MONTHS \$4,000

NEW YORK UNIVERSITY

BIRMAN, JOSEPH L; THEORETICAL SOLID STATE PHYSICS (H031742); 24 MONTHS \$23,200

BIRMAN, JOSEPH L; THEORETICAL SOLID STATE PHYSICS (H031742 001); \$5,900

BRANDT, WERNER; SOLIDS BY POSITRON ANNIHILATION (H031810); 24 MONTHS \$104,800

LEVY, PETER M; MAGNETO-ELASTIC AND THERMODYNAMIC BEHAVIOR OF THE RARE-EARTH PNICTIDES (H031812); 12 MONTHS \$53,400

LEVY, PETER M; MAGNETO-ELASTIC AND THERMODYNAMIC BEHAVIOR OF THE RARE-EARTH PNICTIDES (H031812 001); \$5,000

CUMMINS, HERMAN Z; LASER LIGHT SCATTERING STUDIES OF SOLIDS (H031863); 12 MONTHS \$43,900

POPE, MARTIN; ELECTRONIC CONDUCTIVITY IN ORGANIC SOLIDS (P011000 001); 24 MONTHS \$53,200

STATE UNIVERSITY AT ALBANY

DAS, TARA PRASAD; ELECTRONIC STRUCTURE AND ELECTRON-NUCLEAR HYPERFINE INTERACTIONS IN SOLID STATE (H031405); 24 MONTHS \$56,000

STATE UNIVERSITY AT BUFFALO

MROZOWSKI, S; SPECIFIC HEAT ANOMALY AT 0.6 DEGREES IN IRRADIATED GRAPHITE AND IN GLASSY CARBON (H032229); 19 MONTHS \$66,400

STATE UNIVERSITY AT STONY BROOK

GRAF, ERLIND H; LOW TEMPERATURE STUDIES OF LIQUID HE₃-HE₄ MIXTURES AND SOLID HD (H031375); 24 MONTHS \$50,500

UNIVERSITY OF ROCHESTER

SHAW, EARL D; DEVELOPMENT OF THE SPIN-FLIP LASER AND RAMAN SCATTERING IN SOLIDS (H031614); 24 MONTHS \$69,700

NORTH CAROLINA

DUKE UNIVERSITY

MEYER, HORST; PROPERTIES OF FLUID HE₃-HE₄ MIXTURES AND OF SOLID H₂ AND D₂ (H031907); 24 MONTHS \$76,400

WAKE FOREST UNIVERSITY

TURNER, THOMAS J; DEFORMED ALKALINE EARTH OXIDES UTILIZING OPTICAL ABSORPTION, DIELECTRIC AND ANELASTIC RELAXATION (H031711); 24 MONTHS \$35,900

NORTH DAKOTA

UNIVERSITY OF NORTH DAKOTA

SOONPAA, HENN K; PHYSICAL PHENOMENA IN CRYSTALS CONSISTING OF A FINITE AND COUNTABLE NUMBER OF ATOMS IN ONE DIRECTION (H031561); 12 MONTHS \$41,400

OHIO

CASE WESTERN RESERVE UNIVERSITY

GORDON, WILLIAM L; BAND STRUCTURE OF DILUTE ALLOYS (H031705 X00); 12 MONTHS \$40,000

CHANDRASEKHAR, B S; ELECTRON TUNNELING INTO SOLIDS (H031409); 12 MONTHS \$45,800

SEGALL, BENJAMIN; ELECTRONIC STRUCTURE OF SOLIDS AND THE OPTICAL PROPERTIES OF SEMICONDUCTORS (H031367); 24 MONTHS \$30,000

JOHN CARROLL UNIVERSITY

TRIVISONNO, JOSEPH JR; ELECTRON AND PHONON INTERACTIONS IN METALS (H031858); 24 MONTHS \$48,800

KENT STATE UNIVERSITY

BROWN, GLENN H; STRUCTURE AND PHYSICAL PROPERTIES OF LIQUID CRYSTALS (H03116; X00); 12 MONTHS \$126,100

OHIO STATE UNIVERSITY

EDWARDS, DAVID O; LIQUID HE₃-HE₄ MIXTURES AT LOW TEMPERATURES (H031630); 12 MONTHS \$62,800

GAINES, JAMES R; A STUDY OF RELAXATION, DIFFUSION, AND POLARIZATION IN THE SOLID HYDROGENS (H031011 X00); 12 MONTHS \$37,200

YAKUB, M, AND GARLAND, J C; LOW TEMPERATURE TRANSPORT PHENOMENA IN METALS (H031385); 12 MONTHS \$40,000

MILLS, R L, AND KORRINGA, JAN; WAVE PROPAGATION IN HETEROGENEOUS MATERIALS (H031740); 12 MONTHS \$32,800

VIJEN, PHILIP E; MAGNETIC RESONANCE IN DILUTE ALLOYS AND IN THIN INSULATOR FILMS (H031353); 12 MONTHS \$53,900

OREGON

UNIVERSITY OF OREGON - EUGENE

LOWNDES, DOUGLAS H; STUDIES OF ELECTRONIC SCATTERING, BONDING AND BAND STRUCTURE IN METALLIC ALLOYS AND COMPOUNDS (H031882); 24 MONTHS \$71,300

HIGGINS, RICHARD J; ELECTRONIC STRUCTURE OF IMPERFECT METALLIC SYSTEMS (H031775); 24 MONTHS \$30,000

PARK, KWANGJAI; OPTICAL PROPERTIES OF SOLIDS (H031850); 24 MONTHS \$59,400

RAYFIELD, GEORGE W; LOW TEMPERATURE PHYSICS (P031653 001); 4 MONTHS \$5,000

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

FLINN, PAUL A; MOSSBAUER EFFECT STUDY OF DIFFUSION IN SOLIDS (H031380); 12 MONTHS \$40,000

SCHUMACHER, ROBERT T, AND VANDERVEN, NED S; MAGNETIC RESONANCE RESEARCH IN SOLIDS (H031904); 24 MONTHS \$36,400

BERGER, LUC; CONDUCTION PROCESSES IN FERROMAGNETIC METALS AND ALLOYS (H031400); 12 MONTHS \$31,900

DEBENEDETTI, SERGIO, AND OOSTERHUIS, WILLIAM T; SOLID STATE PROPERTIES WITH RADIOACTIVE TECHNIQUES (P011868 001); 24 MONTHS \$74,200

LEHIGH UNIVERSITY

FOWLER, W BEALL; THEORY OF ELECTRONIC STATES IN COMPLEX NON-METALLIC SOLIDS (H031759); 24 MONTHS \$53,100

VAN SCIVER, WESLEY J; TRANSPORT OF ENERGY, CHARGE IMPURITIES, AND OTHER LOCALIZED DEFECTS IN INSULATING SOLIDS WITH EMPHASIS ON DETECTION BY OPTICAL MEANS (H031518); 24 MONTHS \$40,000

PENNSYLVANIA STATE UNIVERSITY

MUELLER, ERWIN W; RESEARCH WITH THE ATOM-PROBE FIELD ION MICROSCOPE (H031878); 24 MONTHS \$74,800

LENISCH, H K; INVESTIGATION OF TRAP-LIKE LEVELS IN SEMI-INSULATING GLASSES (H031517); 12 MONTHS \$41,100

MCKELVEY, JOHN P; ELECTRICAL AND OPTICAL PROPERTIES OF SEMICONDUCTOR CRYSTALS (H031653); 24 MONTHS \$40,000

TEMPLE UNIVERSITY

MIHALISIN, TED W; EXPERIMENTAL STUDY OF TRANSPORT AND THERMODYNAMIC PROPERTIES NEAR MAGNETIC ORDERING TEMPERATURES (H031451); 24 MONTHS \$40,000

UNIVERSITY OF PENNSYLVANIA

CALLEN, HERBERT B; STATISTICAL MECHANICS AND THEORY OF SOLIDS (H031556); 7 MONTHS \$17,600

UNIVERSITY OF PITTSBURGH

TOWNSEND, JOHN R; RADIATION INDUCED DEFECTS IN METALS (H031991); 24 MONTHS \$64,000

LOWE, IRVING J; TRANSIENT NUCLEAR MAGNETIC RESONANCE STUDY OF SOLIDS (H032861); 24 MONTHS \$41,800

GOLDBURG, WALTER I; LIGHT SCATTERING FROM FLUIDS (P031718 001); 24 MONTHS \$36,000

FRANKLIN INSTITUTE-BARTOL RESEARCH FOUNDATION

CHEN, JAR-MO; RAMAN SCATTERING STUDY OF SURFACES (H031668); 24 MONTHS \$45,000

PUERTO RICO

UNIVERSITY OF PUERTO RICO, MAYAGUEZ

KAY, MORTIMER I; NEUTRON DIFFRACTION PROGRAM (H032884); 12 MONTHS \$82,100

RHODE ISLAND

BROWN UNIVERSITY

GLICKSMAN, MAURICE; THE GROWTH, ELECTRICAL AND OPTICAL PROPERTIES OF NEW SEMICONDUCTING ALLOYS (H031400); 12 MONTHS \$46,400

BRAY, PHILIP J; NUCLEAR MAGNETIC RESONANCE STUDIES OF THE STRUCTURE OF GLASSES (H031381); 12 MONTHS \$32,900

BEYER, ROBERT T; ULTRASONIC PROPAGATION STUDIES (H031400); 12 MONTHS \$51,300

TAUC, JAN; INVESTIGATION OF THE OPTICAL PROPERTIES OF CRYSTALLINE AND AMORPHOUS SOLIDS AT HIGH TEMPERATURES AND AT PHASE TRANSITIONS (H024548); 24 MONTHS \$54,900
WEINER, J H; THEORY OF RATE PROCESSES IN SOLIDS (H034378); 24 MONTHS \$38,000

COOPER, LEON N, AND HOUGHTON, ANTHONY; SUPERCONDUCTIVITY AND THE MANY BODY PROBLEM (P00014 001); 24 MONTHS \$65,200
QUINN, JOHN J; THEORETICAL STUDY OF ELECTRON-ELECTRON INTERACTIONS AMONG THE CONDUCTION ELECTRONS IN SOLIDS (P01274 001); 24 MONTHS \$39,500

TENNESSEE

UNIVERSITY OF TENNESSEE, KNOXVILLE
CALLCOTT, T A; ANGULAR EFFECTS IN PHOTOEMISSION (H041781); \$4,200

TEXAS

RICE UNIVERSITY
RORSCHACH, H E; LOW TEMPERATURE AND SOLID STATE PHYSICS (H031891); 18 MONTHS \$30,100
TRAMMELL, GEORGE T; THEORETICAL MOSSBAUER EFFECT STUDIES (H032892); 24 MONTHS \$76,600

UTAH

UNIVERSITY OF UTAH
SEWARD, WILLIAM D; EFFECTS OF DENSITY AND PHASE CHANGES ON THE THERMAL CONDUCTIVITY OF SOLID HELIUM-4 (H031647); 12 MONTHS \$23,200
AILION, DAVID C; MAGNETIC RESONANCE STUDY OF ATOMIC AND MOLECULAR MOTIONS (H031471); 24 MONTHS \$80,900
LUTY, FRITZ; TUNNELING PROCESSES IN CRYSTAL DEFECTS (H031701 X00); 12 MONTHS \$49,900
BYMKO, OREST G; PROPERTIES OF DILUTE ALLOYS AT VERY LOW TEMPERATURES CRITICAL PHENOMENA AND NUCLEAR COOLING (H031450); 24 MONTHS \$68,500
WILLIAMS, G A; LOW FREQUENCY ENERGY LOSS IN SUPERCONDUCTORS (H031458); 24 MONTHS \$38,100

VIRGINIA

UNIVERSITY OF VIRGINIA
HESS, GEORGE S; SUPERFLUID PHENOMENA IN LIQUID HELIUM (H031714); 24 MONTHS \$40,000
RUVALDS, JOHN; PHONON INTERACTIONS AND PHASE TRANSITIONS (H031747); 24 MONTHS \$29,700
CELLI, VITTORIO; SURFACE STUDIES IN SOLIDS (H031404); 24 MONTHS \$40,000
DEAVER, BASCOM S JR; MACROSCOPIC QUANTUM PHENOMENA (P014701 001); 12 MONTHS \$33,700

WASHINGTON

UNIVERSITY OF WASHINGTON
DASH, J G; MONOLAYER PHYSICS (H031187); 12 MONTHS \$103,900
WASHINGTON STATE UNIVERSITY
DUVALL, GEORGE E; DISLOCATIONS IN LIQUID UNDER SHOCK COMPRESSION (H031450); 12 MONTHS \$60,000
BATTELLE MEMORIAL INSTITUTE-BATTELLE NORTHWEST
HARLING, OTTO K; HIGH MOMENTUM TRANSFER NEUTRON SCATTERING FROM LIQUID ARGON - A MODEL EXPERIMENT COMPARISON (H031488); 12 MONTHS \$10,000

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON
LIN, CHUN C; BAND STRUCTURE OF SOLIDS AND OF POINT DEFECTS IN CRYSTALS BY THE METHOD OF TIGHT BINDING (LCAO) (H031142 X00); 12 MONTHS \$24,400
HUBER, DAVID L; THEORETICAL STUDIES OF THE MAGNETIC PROPERTIES OF SOLIDS (H031330); 24 MONTHS \$23,200
MORAN, P R; RARE CONCENTRATION DEFECT AND DAMAGE STATE PHENOMENA IN SOLIDS (H031484); 12 MONTHS \$28,900
BRUCH, LUDWIG W; THERMODYNAMICS OF HELIUM (P011704 001); 24 MONTHS \$28,900
YEN, WILLIAM M; SPECTROSCOPIC STUDIES OF MAGNETICALLY ORDERED MATERIALS AND LOW TEMPERATURE ELECTRONIC PROPERTIES (P015488 002); 24 MONTHS \$81,500

SOLID STATE CHEMISTRY

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY
DAVIDSON, NORMAN, AND SAMSON, STEN; BASIC RESEARCH ON THE STRUCTURE OF COMPLEX INTERMETALLIC COMPOUNDS (H031455); 12 MONTHS \$24,200

UNIVERSITY OF CALIFORNIA, LOS ANGELES
NICOL, MALCOLM F; STRUCTURES AND BONDING OF SOLIDS AT EXTREMELY HIGH PRESSURES (H033079); 24 MONTHS \$61,500
NICOL, MALCOLM F; STRUCTURES AND BONDING OF SOLIDS AT EXTREMELY HIGH PRESSURES (H033079 001); \$5,000

CONNECTICUT

YALE UNIVERSITY
MCBRIDE, J MICHAEL; THE CRYSTAL CHEMISTRY OF RADICAL PAIRS (H034318); 24 MONTHS \$68,200

FLORIDA

FLORIDA STATE UNIVERSITY
MANDELKERN, LEO; THE NATURE OF THE CRYSTALLINE STATE IN POLYMERS (H033794); 24 MONTHS \$45,200
UNIVERSITY OF FLORIDA
BUTLER, GEORGE B; THERMALLY STABLE FLEXIBLE POLYMERS (H032764); 24 MONTHS \$51,000
ESCH, T E HOGEN; ION PAIRS AND THE STEREOCHEMISTRY OF ANIONIC POLYMERIZATION (H034318); 24 MONTHS \$45,100

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY
WAHLBECK, P G; INTERACTIONS OF GASES WITH SURFACES (P030700); 24 MONTHS \$45,000
NORTHWESTERN UNIVERSITY
LESTER, JOSEPH E; KINETICS OF VAPORIZATION OF IONIC SOLIDS (P008510 001); 24 MONTHS \$38,100
UNIVERSITY OF CHICAGO
STOUT, J W; ELECTRONIC ENERGY LEVELS IN PARAMAGNETIC CRYSTALS (P010733 001); 24 MONTHS \$158,500

INDIANA

PURDUE UNIVERSITY
HONIG, J M; ELECTRICAL PROPERTIES OF SINGLE CRYSTAL NiO AND NbO (H034311); 24 MONTHS \$71,000
KEESOM, V H, AND HONIG, J M; PROPERTIES OF DCPED TiO₂ (H031731); 24 MONTHS \$72,600
ANGELL, C A; ELUCIDATION OF THERMODYNAMIC, RELAXATIONAL AND STRUCTURAL ASPECTS OF THE GLASS TRANSITION PHENOMENON (P030782); 24 MONTHS \$70,600

MASSACHUSETTS

UNIVERSITY OF MASSACHUSETTS, AMHERST
MACKNIGHT, WILLIAM J; MICROPHASE SEPARATION IN SOLID ORGANIC POLYMERS CONTAINING SALT GROUPS (H031189 X00); 12 MONTHS \$31,200
STEIN, RICHARD S; OPTICAL AND X-RAY STUDIES OF POLYMER RELAXATION (H034315 X00); 12 MONTHS \$40,100
PRICE, FRASER P; CRYSTALLIZATION OF POLYMERS UNDER EXTREME CONDITIONS (H031459 X00); 12 MONTHS \$21,200

MICHIGAN

UNIVERSITY OF MICHIGAN
KOPELMAN, RAOUL; EXCITATIONS AND PHONONS IN CRYSTALLINE AND AMORPHOUS MOLECULAR SEMICONDUCTORS (H033718 X00); 12 MONTHS \$20,200
YEH, O S Y, AND FILISKO, FRANK E; THERMODYNAMIC STUDIES OF ORDER IN AMORPHOUS POLYMERS (H031459); 24 MONTHS \$45,800

MINNESOTA

UNIVERSITY OF MINNESOTA
CONROY, LAWRENCE E; INTERCALATION COMPLEXES OF LAYERED DICHALCOGENIDES (H034318); 24 MONTHS \$40,000

NEW HAMPSHIRE

DARTMOUTH COLLEGE
HGRIG, JAMES F, AND BRAUN, CHARLES L; ENERGY TRANSFER IN MOLECULAR SOLIDS (H033717 X00); 12 MONTHS \$40,900
STOCKMAYER, WALTER H; PHYSICAL CHEMISTRY OF HIGH POLYMERS (P030044 X00); 12 MONTHS \$54,000

UNIVERSITY OF NEW HAMPSHIRE, DURHAM
OWENS, CHARLES W; CHEMISTRY OF SOLIDS (H033704 X00); 12 MONTHS \$28,400

NEW JERSEY

PRINCETON UNIVERSITY
TOBOLSKY, ARTHUR V; POLYMER VISCOELASTICITY AND MOLECULAR WEIGHT DISTRIBUTION (H032748); 24 MONTHS \$66,900

NEW YORK

ADELPHI UNIVERSITY

RUDMAN, REUBEN; CRYSTAL STRUCTURES OF PLASTIC CRYSTALS (H031774); 12 MONTHS \$20,900

POLYTECHNIC INSTITUTE OF BROOKLYN

MORAWETZ, HERBERT; KINETIC STUDY OF ISOMERIZATION IN BACKBONE OF POLYMER CHAINS IN THE RUBBERY AND GLASSY STATE (H031114); 24 MONTHS \$43,900

RENSSELAER POLYTECHNIC INSTITUTE

KRAUSE, SONJA; POLYMER COMPATIBILITY (H031115); 24 MONTHS \$41,000

WUNDERLICH, BERNHARD; SIMULTANEOUS POLYMERIZATION AND CRYSTALLIZATION (H031116); 24 MONTHS \$70,000

STATE UNIVERSITY AT BUFFALO

EHRlich, PAUL; STRUCTURE AND PARAMAGNETISM OF CONJUGATED MACRO-RADICALS. CRYSTALLIZABLE POLYPHENYLACETYLENE (H031117); 24 MONTHS \$33,900

NORTH CAROLINA

DUKE UNIVERSITY

KRIEBAUM, WILLIAM B; X-RAY DIFFRACTION STUDIES OF POLYMERS (H031714); 24 MONTHS \$37,700

OHIO

KOENIG, J L; OTHER PROGRAM AWARDS (01AWDS); 12 MONTHS \$33,000

CASE WESTERN RESERVE UNIVERSITY

LANDO, J B; THE CRYSTAL STRUCTURES OF FLUORINE CONTAINING POLYOLEFINS (H031118); 24 MONTHS \$37,400

BLACKWELL, J; FINE STRUCTURE OF CELLULOSE (H031119); 24 MONTHS \$59,900

UNIVERSITY OF AKRON

MORTON, MAURICE, MCINTYER, DONALD, MEINECKE, EBERHARD A, AND FETTERS, LEWIS J; SYNTHESIS, STRUCTURE, THERMODYNAMIC PROPERTIES AND MECHANICAL BEHAVIOR OF BLOCK COPOLYMERS (H031120 X00); 12 MONTHS \$41,700

OREGON

LINFIELD COLLEGE

BELL, ANTHONY E, AND SWANSON, L W; FIELD EMISSION ENERGY DISTRIBUTION STUDY OF CLEAN AND ADSORBATE COVERED METALS (H031121); 12 MONTHS \$21,900

OREGON STATE UNIVERSITY

WICKMAN, H HOLLIS; MOSSBAUER INVESTIGATIONS OF METAL ION PROPERTIES IN NON-CRYSTALLINE SOLIDS (H031122); 24 MONTHS \$43,000

SCOTT, ALLEN B; DONOR CENTERS IN VANADIUM PENTOXIDE (H031123); 12 MONTHS \$8,000

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

CASASSA, EDWARD F, AND BERRY, G C; PROPERTIES OF POLYPHENYLENES IN SOLUTION (H031124 X01); 12 MONTHS \$27,600

BERRY, GUY C, AND FOX, THOMAS G; RHEOLOGICAL STUDIES ON CONCENTRATED SOLUTIONS OF POLYMERS (H031125 X00); 12 MONTHS \$33,200

LEHIGH UNIVERSITY

POWKES, FREDERICK M; DEFECT CHEMISTRY OF SILICA SURFACES (H031126); 24 MONTHS \$48,000

LEIDHEISER, HENRY JR; CHARACTERIZATION OF HIGH-AREA AND LOW-AREA NICKEL AND NICKEL OXIDE (H031127 X00*); 12 MONTHS \$46,600

PENNSYLVANIA STATE UNIVERSITY

MCKINSTRY, HERBERT A, AND STUBICAN, VLADIMIR S; STRAIN AND REACTIONS IN NONMETALLIC SOLIDS (H031128); 24 MONTHS \$33,000

SPEAR, KARL E; SYNTHESIS, PROPERTIES, AND DEFECT CHEMISTRY OF RARE-EARTH BORIDES (H031129); 24 MONTHS \$40,000

TEXAS

BAYLOR UNIVERSITY

MILLIGAN, W O; LANTHANIDE AND ACTINIDE HYDROUS OXIDES AND HYDROXIDES (H031130); 12 MONTHS \$20,800

UTAH

BRIGHAM YOUNG UNIVERSITY

HALL, H TRACY; INORGANIC SYNTHESIS BY HIGH PRESSURE AT HIGH TEMPERATURE (H031131); 12 MONTHS \$30,000

WASHINGTON

UNIVERSITY OF WASHINGTON

SLUTSKY, LEON J; VAN DER WAALS INTERACTIONS IN METALS (H031707); 24 MONTHS \$63,000

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

SCHRAO, JOHN L, AND FERRY, JOHN D; MOTIONS AND CONFORMATIONAL PROPERTIES OF MACROMOLECULES (H031132 X00); 12 MONTHS \$70,200

SCHRAO, JOHN L, AND FERRY, JOHN D; MOTIONS AND CONFORMATIONAL PROPERTIES OF MACROMOLECULES (H031132 X01); \$3,000

ENGINEERING MATERIALS

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

VAUGHAN, ROBERT W; INVESTIGATION OF BULK AND SURFACE PROPERTIES OF MATERIALS WITH NUCLEAR MAGNETIC RESONANCE AND HIGH PRESSURE TECHNIQUES (H031133); 24 MONTHS \$70,000

HUMPHREY, FLOYD B; INVESTIGATIONS OF MAGNETIC FLUX REVERSAL USING A KERRMAGNETO-OPTIC CAMERA (H031134); 24 MONTHS \$68,900

TSCHOEGL, N W; PHYSICAL AND PHYSICO-CHEMICAL BEHAVIOR OF FILLED AND UNFILLED ELASTOMERS (H031135); 12 MONTHS \$143,600

STANFORD RESEARCH INSTITUTE

SHOCKEY, D A; ON THE USE OF PLASTICITY-ENHANCING LIQUIDS IN FRACTURE CONTROL OF CERAMICS (H031136); 12 MONTHS \$18,900

STANFORD UNIVERSITY

GIBBONS, JAMES F; ION IMPLANTATIONS IN SEMICONDUCTORS (H031137); 24 MONTHS \$77,000

PARLEE, NORMAN A D; DIFFUSION OF GASES IN LIQUID METALS (H031138); 24 MONTHS \$59,900

NIX, WILLIAM D, AND SHERBY, OLEG D; A CRITICAL APPRAISAL OF THE CONTRIBUTION OF GRAIN BOUNDARY SLIDING TO HIGH TEMPERATURE CREEP OF POLYCRYSTALLINE SOLIDS (H031139); 12 MONTHS \$45,000

POUND, GUY M; NORMAL MODE AND MOLECULAR DYNAMICS COMPUTER CALCULATIONS OF THE FREE ENERGIES OF NUCLEI (H031140); 12 MONTHS \$45,000

PEARSON, GERALD L; FUNDAMENTAL STUDIES OF ALGAAAS-GAAS HETEROJUNCTIONS FOR SOLAR ENERGY CONVERTERS (H031141); 12 MONTHS \$45,000

SPICER, WILLIAM E; SURFACE REACTIONS AND ELECTRONIC STRUCTURE OF NOBLE AND TRANSITION METALS AND ALLOYS (H031142); 24 MONTHS \$30,000

BARRETT, CRAIG R; STUDY OF THE STRUCTURE AND PROPERTIES OF DISPERSION HARDENED MATERIALS (H031143); 12 MONTHS \$41,900

UNIVERSITY OF CALIFORNIA, LOS ANGELES

ARDELL, ALAN J; PRECIPITATION HARDENING OF ORDERED ALLOYS (H031144); 24 MONTHS \$52,000

SINES, GEORGE; STUDY OF THE EFFECT OF ANISOTROPY ON DEFECT INTERACTIONS (H031145); 12 MONTHS \$25,400

DE FONTAINE, DIDIER; CLUSTERING AND ORDERING INSTABILITIES IN MULTICOMPONENT SYSTEMS (H031146); 24 MONTHS \$58,100

TEITELMAN, ALAN S; THE RESISTANCE OF FIBROUS COMPOSITES TO THE NUCLEATION AND GROWTH OF MICROCRACKS (H031147); 12 MONTHS \$35,000

STERN, RICHARD; INVESTIGATION OF ULTRASONIC PROPAGATION IN MAGNETIC MATERIALS (H031148); 12 MONTHS \$24,700

COLORADO

COLORADO SCHOOL OF MINES

BALL, BRIAN; RESEARCH INITIATION - CONCENTRATION OF ULTRAFINE PARTICLES BY OIL PHASE (H031149); 18 MONTHS \$16,000

CONNECTICUT

UNIVERSITY OF CONNECTICUT

AZAROFF, LEONID V; ELECTRONIC STRUCTURE OF SUPERALLOYS (H031150); 12 MONTHS \$60,000

GREENE, NORBERT D, ONKELINX, CLAUDE, RITLAND, GERALD D, RICHELLE, LEON J, AND WARD, PETER A; BIOMATERIALS - IMPROVED IMPLANT ALLOYS (H031151); 12 MONTHS \$90,000

YALE UNIVERSITY

BARKER, RICHARD C, AND YELON, ARTHUR; FERROMAGNETIC RESONANCE RELAXATION IN METAL PLATELETS (H031152); 24 MONTHS \$81,600

DELAWARE

UNIVERSITY OF DELAWARE

SCHULZ, JEROLD M, AND SANDLER, STANLEY I; *THE STRUCTURE AND PROPERTIES OF LIQUIDS AND MOLTEN POLYMERS (H032559)*; 24 MONTHS \$116,000

KRAMER, JOHN J; *ENERGY LOSSES DURING CYCLIC MAGNETIZATION IN CRYSTALS OF A FERROMAGNETIC CONDUCTOR (K010322 001)*; 24 MONTHS \$55,400

DISTRICT OF COLUMBIA

NATIONAL ACADEMY OF ENGINEERING

PROMISEL, N E; *CONTINUATION OF ADVISORY SERVICES TO THE FEDERAL GOVERNMENT ON MATERIALS RESEARCH AND DEVELOPMENT (CA70000)*; 12 MONTHS \$5,000

FLORIDA

UNIVERSITY OF FLORIDA

HENCH, L L; *VIALBE FIXATION OF ARTIFICIAL LIMBS (H033008)*; 24 MONTHS \$143,100

HARTLEY, CRAIG S; *SIMULATION OF DEFECTS IN CRYSTALS BY POINT FORCE ARRAYS (H031480)*; 3 MONTHS \$4,400

UNIVERSITY OF FLORIDA-ENGINEERING & INDUSTRIAL EXPERIMENT STATION

GOULD, ROBERT W; *THE EFFECT OF THERMO-MECHANICAL PROCESSING ON THE ZONE STATE OF SELECTED AL-ZN-MG ALLOYS (H031817)*; 24 MONTHS \$50,000

GOULD, ROBERT W; *THE EFFECT OF THERMO-MECHANICAL PROCESSING ON THE ZONE STATE OF SELECTED AL-ZA-MG ALLOYS (H031817 001)*; 6 MONTHS \$5,900

RHINES, F N; *CONTROL OF ENVIRONMENTAL SURFACE REACTIONS (H034350)*; 12 MONTHS \$176,900

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

COCHRAN, J X JR; *RESEARCH INITIATION - PREFERENTIAL METAL DEPOSITION ON TUNGSTEN IN TUNGSTEN-ZIRCONIA COMPOSITES (H032618)*; 18 MONTHS \$16,000

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY

LARSEN, RUSSELL D; *STATISTICAL MECHANICS OF MATERIALS FAILURE PHENOMENA- STABILITY OF IMPERFECT SOLIDS (H031455)*; 12 MONTHS \$25,000

GORDON, PAUL; *ENVIRONMENTAL SENSITIVITY OF STRUCTURAL METALS-LIQUID METAL EMBRITTLEMENT (H031464)*; 12 MONTHS \$70,000

NORTHWESTERN UNIVERSITY

JOHNSON, D LYNN; *IMPURITY EFFECTS IN THE SINTERING OF CERAMICS (K030390)*; 24 MONTHS \$58,400

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

WEINS, MICHAEL J; *RESEARCH INITIATION - COMPUTER MODELING OF HIGH ANGLE GRAIN BOUNDARIES (H032650)*; 18 MONTHS \$16,000

UNIVERSITY OF ILLINOIS AT URBANA

EHRlich, GERT; *ATOMIC EXPLORATION OF CRYSTAL SURFACES (H031828)*; 24 MONTHS \$68,300

GREENE, JOSEPH E; *RESEARCH INITIATION - THE DEVELOPMENT OF A NEW CHEMICAL ANALYSIS TECHNIQUE FOR THIN FILM ELECTRONIC DEVICES (H032631)*; 18 MONTHS \$16,000

HOLONYAK, NICK JR; *LUMINESCENCE AND LASER STUDIES ON III-V SEMICONDUCTORS (H032171)*; 24 MONTHS \$71,200

INDIANA

UNIVERSITY OF NOTRE DAME

ALLEN, CHARLES W; *STRUCTURAL DEFECTS AND TRANSFORMATIONS IN INTERMEDIATE LAYERS-PHASES (H034416)*; 12 MONTHS \$34,500

PIORE, NICHOLAS F; *ULTRASONIC DAMPING STUDIES IN CONTROLLED MICROSTRUCTURES (H034417)*; 12 MONTHS \$25,900

KENTUCKY

UNIVERSITY OF KENTUCKY

DEANGELIS, R J, AND SARGENT, GORDON A; *THERMO-MECHANICAL STRENGTHENING OF HIGH STRENGTH BETA TITANIUM ALLOYS (H034399)*; 12 MONTHS \$40,000

CONRAD, HANS; *A STUDY OF THE RELATIONSHIP BETWEEN THE DEFORMATION UNDER MULTIAXIAL STRESS STATES AND THE DISLOCATION STRUCTURE (H034386)*; 12 MONTHS \$40,000

MARYLAND

UNIVERSITY OF MARYLAND, COLLEGE PARK

MARCINKOWSKI, M J; *GRAIN BOUNDARY BEHAVIOR DURING PLASTIC DEFORMATION (H034492)*; 24 MONTHS \$55,000

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

GATOS, HARRY C, AND WITT, AUGUST F; *STUDY OF MICROSCOPIC GROWTH RATES AND THEIR ROLE IN SOLIDIFICATION (H034341 001)*; 18 MONTHS \$38,600

COHEN, MORRIS; *NUCLEATION IN SOLID-STATE TRANSFORMATIONS (H031189)*; 12 MONTHS \$35,400

NORTHEASTERN UNIVERSITY

NOWAK, WELVILLE B; *HIGH-FIELD, HIGH-CURRENT, HIGH-TEMPERATURE SUPERCONDUCTORS (H033746)*; 12 MONTHS \$33,000

MICHIGAN

MICHIGAN TECHNOLOGICAL UNIVERSITY

RUNDMAN, KARL B; *COMPOSITION IN MODIFIED AL-ZN ALLOYS (K030887)*; 24 MONTHS \$64,400

UNIVERSITY OF MICHIGAN

SHERMAN, PAULINE; *PARTICLE GENERATION BY CONDENSATION (H031855)*; 24 MONTHS \$50,000

WAYNE STATE UNIVERSITY

ROL, PIETER K, AND HIMMEL, LAWRENCE; *EXO-ELECTRON STUDIES OF SURFACE DAMAGE OF LASER MATERIALS (H032600)*; 24 MONTHS \$76,900

MINNESOTA

UNIVERSITY OF MINNESOTA

TOTH, LOUIS E; *ELECTRONIC STRUCTURE AND MAGNETIC PROPERTIES OF TRANSITION METAL CARBIDES, NITRIDES AND BORIDES (K030701)*; 24 MONTHS \$71,100

MISSISSIPPI

MISSISSIPPI STATE UNIVERSITY

MORRIS, DON H; *RESEARCH INITIATION - CHARACTERIZATION STUDIES OF A POLYESTER RESIN FOR USE IN PHOTOELASTO-PLASTICITY (H032615)*; 18 MONTHS \$14,000

MISSOURI

CLARK, J B; *OTHER PROGRAM AWARDS (01AWDS)*; 15 MONTHS \$50,300

UNIVERSITY OF MISSOURI, ROLLA

CLARK, JOHN B; *GENESIS OF CELLULAR PRECIPITATION (H032879)*; 24 MONTHS \$87,100

KREIDL, NORBERT J; *SILVER BORATE GLASSES (H032956)*; 24 MONTHS \$40,900

JAMES, WILLIAM J; *ELECTRONIC SURFACE STATES AND SURFACE STRUCTURE CHARACTERIZATION OF SEMICONDUCTORS (H034351)*; 12 MONTHS \$44,000

WASHINGTON UNIVERSITY

MULLER, MARCEL W; *APPLIED MICROMAGNETICS (H032000)*; 24 MONTHS \$65,000

KARDOS, JOHN L, AND HILL, CHRISTOPHER T; *POLYMERIC MATRIX COMPOSITE MATERIALS (H034594)*; 12 MONTHS \$70,000

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

BASHARA, N M; *SURFACE ELLIPSOmetry (K030680)*; 24 MONTHS \$71,000

NEW JERSEY

RUTGERS UNIVERSITY

WEISSMAN, SIGMUND; *ELUCIDATION OF CRACK PROPAGATION AND FRACTURE MECHANISM IN CRYSTALS BY X-RAY PENDELLOSUNG FRINGES (H034450)*; 12 MONTHS \$48,100

SAUER, J A, AND MORROW, D R; *FATIGUE OF HIGH POLYMERS (K030641)*; 24 MONTHS \$63,300

NEW YORK

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

MARTON, RENATA; *INVESTIGATION OF THE FINE STRUCTURE OF WOOD FIBERS (KJ12357 001)*; 24 MONTHS \$65,500

COLUMBIA UNIVERSITY

PAUL, DAVID I; *THE ELECTRON MICROSCOPY OF FERROMAGNETIC MATERIALS (H034451)*; 12 MONTHS \$24,900

CORNELL UNIVERSITY

BALLANTYNE, JOSEPH M; *PHYSICS AND MATERIALS FOR ELECTROLUMINESCENT METAL-INSULATOR-SEMICONDUCTOR DEVICES (H034458)*; 12 MONTHS \$40,000

POLYTECHNIC INSTITUTE OF BROOKLYN

CASTLEMAN, LOUIS S; EFFECTS OF THERMOMECHANICAL TREATMENT ON PRECIPITATION PHENOMENA IN AND MECHANICAL PROPERTIES OF NICKEL-BASE BINARY ALLOYS (H031458); 12 MONTHS \$53,000

RENSSELAER POLYTECHNIC INSTITUTE

HUDSON, JOHN B; VAPOR-CRYSTAL NUCLEATION (H031819); 24 MONTHS \$54,000

MACCRONE, ROBERT K; SEMI-CONDUCTION IN OXIDE GLASSES (H031549); 24 MONTHS \$89,400

SYRACUSE UNIVERSITY

SCHRODER, KLAUS; CRACK GROWTH AND CRACK DISTRIBUTION STUDY BY BARKHAUSEN EFFECT (H031715); 24 MONTHS \$50,000

KELLER, D V JR; TRIBOLOGY IN METALLIC SYSTEMS (H031457); 12 MONTHS \$29,900

CORNELL UNIVERSITY-MEDICAL COLLEGE

RUBIN, ALBERT L; COLLAGEN AS A BIOMATERIAL (H031478 X00); 12 MONTHS \$14,900

NORTH CAROLINA**DUKE UNIVERSITY**

HACKER, HERBERT JR; ELECTRIC AND MAGNETIC PROPERTIES OF RARE EARTH COMPOUNDS (H031469); 24 MONTHS \$41,500

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

BAILEY, JOHN A; STUDY OF SURFACE INTEGRITY IN THE MACHINING OF CERTAIN HIGH STRENGTH MATERIALS (H031741); 24 MONTHS \$69,200

TISCHER, FREDERICK J; ELECTRIC PROPERTIES OF METALLIC SURFACES AT MILLIMETER-WAVE FREQUENCIES (H031145); 12 MONTHS \$35,000

OHIO**CASE WESTERN RESERVE UNIVERSITY**

ANGUS, JOHN C, AND GARDNER, NELSON C; VAPOR GROWTH OF DIAMOND AT LOW PRESSURES (H031479 X00); 12 MONTHS \$59,900

COOPER, A R, AND HEUER, A H; ACTIVATION ANALYSIS STUDY OF DIFFUSION IN OXIDES (H031147); 12 MONTHS \$54,400

EBERT, L J; DEVELOPMENT OF DUCTILE FIBER COMPOSITES AND THE TECHNOLOGY FOR PRODUCING THEM (H031449); 12 MONTHS \$34,600

HEHEMANN, R F; LATTICE INSTABILITY AND THE STRUCTURE OF MARTENSITES (H031454); 12 MONTHS \$34,900

VUKCEVICH, MILAN R; A NEW APPROACH TO THE THEORY OF BRITTLE FRACTURE (K030149); 24 MONTHS \$61,500

THOMPSON, ERIC D; SPIN ORBIT COUPLING IN THE FERROMAGNETIC METALS (K030704); 24 MONTHS \$68,000

OHIO STATE UNIVERSITY

POWELL, GORDON W; LOCAL EQUILIBRIUM AND DIFFUSION IN MULTIPHASE COUPLES (H031769); 12 MONTHS \$14,200

HIRTH, JOHN P; DISLOCATION SOURCES IN THE MICROSTRAIN REGION (H031348 X00); 12 MONTHS \$44,000

UNIVERSITY OF CINCINNATI

KUHN, W E, AND HALL, J; A NERVE IMPLANT PROSTHESIS FOR FACILITATING PERIPHERAL NERVE REGENERATION (H031873); 24 MONTHS \$79,900

OKLAHOMA**UNIVERSITY OF OKLAHOMA**

MARTINSEN, WILLIAM E; RESEARCH INITIATION - SINTERING OF A12O3 IN A GLOW DISCHARGE (H032442); 18 MONTHS \$18,000

OREGON**OREGON GRADUATE CENTER**

RUDY, ERWIN; HARD AND WEAR-RESISTANT MATERIALS (H030875); 24 MONTHS \$109,100

OREGON GRADUATE CENTER FOR STUDY & RESEARCH

RUDY, ERWIN; HARD AND WEAR-RESISTANT MATERIALS (H030875 001); \$26,900

PENNSYLVANIA**CARNEGIE-MELLON UNIVERSITY**

MASSALSKI, T B, AND VASSAMILLET, L F; A STUDY OF METASTABLE ALLOYS PRODUCED BY THE RAPID COOLING TECHNIQUES (H031718); 18 MONTHS \$37,200

GRAGG, JOHN E JR; RESEARCH INITIATION - COMPUTER AIDED INTERPRETATION OF RADIOGRAPHIC STUDIES OF DEFECTS IN ENGINEERING MATERIALS (H031414); 18 MONTHS \$16,000

HECKEL, R W; DIFFUSION ANALYSIS IN ENGINEERING MATERIALS SYSTEMS (H031474); 24 MONTHS \$90,000

MILNES, A G; TRAPS AND DEEP IMPURITY LEVELS IN SEMICONDUCTOR JUNCTION STRUCTURES (K030622); 24 MONTHS \$85,000

DREXEL UNIVERSITY

HERCZFELD, PETER R; DC AND MICROWAVE BIASED PHOTOCONDUCTIVITY STUDIES (H031747); 24 MONTHS \$70,000

BEARD, RICHARD B; POROUS ELECTRODES FOR USE IN IMPLANTABLE POWER SOURCES (H031745); 24 MONTHS \$80,000

LEHIGH UNIVERSITY

AVITZUR, BETALEL; FORGING AND EXTRUSION OF POWDER METALLURGY PREFORMS (H031410); 24 MONTHS \$70,800

KRAUSS, GEORGE JR; ANALYSIS OF MICROSTRUCTURE AND STRENGTH OF LATH MARTENSITE (H031763); 12 MONTHS \$39,800

SPEHLING, L H; INTERPENETRATING POLYMER NETWORK MATERIALS (K015553 001); 24 MONTHS \$68,000

GROOVER, MIKELL P, AND LEVY, EDWARD K; TEMPERATURE MEASUREMENT IN METAL CUTTING (K030114); 24 MONTHS \$87,200

PENNSYLVANIA STATE UNIVERSITY

HARRISON, TAN R; RESEARCH INITIATION - UTILIZATION OF CHAIN FOLDING (H032416); 18 MONTHS \$16,000

WHITE, WILLIAM B; CRYSTAL CHEMISTRY AND CRYSTAL GROWTH OF ELECTRONICALLY ACTIVE MATERIALS (H031340); 12 MONTHS \$30,000

THROWER, PETER A, AND WALKER, PHILIP L JR; PREPARATION OF CHEMICALLY VAPOR DEPOSITED CARBONS (H031491); 12 MONTHS \$100,000

BARSCHE, GERHARD R; NONLINEAR ELASTIC AND THERMOELASTIC PROPERTIES OF IONIC MATERIALS AND INTERMETALLIC COMPOUNDS (H031449); 12 MONTHS \$40,000

YEDAM, K; OPTICAL PROPERTIES OF MATERIALS UNDER HIGH PRESSURE (H031458); 12 MONTHS \$38,800

ROY, RUSTUM; PREPARATION AND CHARACTERIZATION OF MATERIALS (H031417); 12 MONTHS \$245,000

WORRELL, WAYNE L; HIGH TEMPERATURE THERMODYNAMIC AND KINETIC INVESTIGATIONS OF THE FORMATION OF TRANSITION METAL-NOBLE METAL COMPOUNDS (H031453); 12 MONTHS \$40,000

UNIVERSITY OF PITTSBURGH

PLAZEK, D J; THE LINEAR VISCOELASTIC RESPONSE OF WELL-DEFINED AMORPHOUS POLYMERIC SYSTEMS (H031580); 24 MONTHS \$70,000

MAGILL, J H; MORPHOLOGY AND CRYSTALLIZATION BEHAVIOR OF POLYSILOXANES (H031581); 24 MONTHS \$70,000

SOUTH CAROLINA**CLEMSON UNIVERSITY**

HULBERT, SAMUEL F; SYMPOSIUM ON MATERIALS AND DESIGN CONSIDERATIONS FOR THE ATTACHMENT OF PROSTHESES TO THE MUSCULO-SKELETAL SYSTEM, TO BE HELD APRIL 3-6, 1974 (H031576); 6 MONTHS \$2,000

KLAWITTER, JEROME J; RESEARCH INITIATION - AN EVALUATION OF POROUS CERAMICS (H031730); 18 MONTHS \$16,000

TENNESSEE**VANDERBILT UNIVERSITY**

BAYUZICK, ROBERT J; ATOMIC NATURE OF GRAIN BOUNDARIES (H031714); 24 MONTHS \$50,000

BAYUZICK, ROBERT J, AND PACKMAN, PAUL F; A FIELD ION MICROSCOPY INVESTIGATION OF THE ATOMIC PROCESSES LEADING TO FATIGUE CRACK INITIATION IN METALLIC MATERIALS (H031715); 12 MONTHS \$40,000

TEXAS**NATIONAL ASSOCIATION OF CORROSION ENGINEERS**

STAEHLE, R W; INTERNATIONAL CONFERENCE ON LOCALIZED CORROSION, WILLIAMSBURG, VIRGINIA, DECEMBER 4-10, 1971 (H031814); 18 MONTHS \$2,000

RICE UNIVERSITY

BOURNE, HENRY C; PROPERTIES OF THIN MAGNETIC FILMS (H031584); 24 MONTHS \$75,000

SOUTHERN METHODIST UNIVERSITY

LEONARD, WILLIAM F; THERMOELECTRIC POWER OF NOBLE METALS (H031178); 24 MONTHS \$63,700

UTAH**UNIVERSITY OF UTAH**

DEVRIES, K L; ELECTRON PARAMAGNETIC RESONANCE INVESTIGATION OF SURFACE AND ENVIRONMENTAL EFFECTS (H031348); 24 MONTHS \$68,000

BOYD, RICHARD H; RELAXATION AND STRUCTURE IN POLYMERIC MATERIALS (H031417); 24 MONTHS \$69,400

BREITLING, S M; THE PREDICTION OF MECHANICAL BEHAVIOR FROM THE POLYMER CHEMICAL STRUCTURE (H031561); 12 MONTHS \$44,900

BYRNE, J G; IMPROVEMENT OF THE MECHANICAL PROPERTIES OF CHEMICALLY VAPOR DEPOSITED REFRACTORY METALS (H031417); 12 MONTHS \$35,000

VIRGINIA

VIRGINIA POLYTECHNIC INSTITUTE
HOUSKA, C R; VOLUME DIFFUSION IN POLYCRYSTALS BY X-RAY
DIFFRACTION (H030182); 24 MONTHS \$70,200

WASHINGTON

WASHINGTON STATE UNIVERSITY
MASSON, D BRUCE; FERMI SURFACE OVERLAP AND COMPONENT
THERMODYNAMIC ACTIVITY (H031816); 24 MONTHS \$40,000

WISCONSIN

MARQUETTE UNIVERSITY
BREBRICK, ROBERT F; MEASUREMENT AND ANALYSIS OF THE PAR-
TIAL PRESSURES OVER ENSE(S) AND CDSE(S) AND THE LIQUIDS
FROM WHICH THEY CRYSTALLIZE (H033009); 24 MONTHS \$97,900

UNIVERSITY OF WISCONSIN, MADISON
COOPER, S L; INTERMOLECULAR BONDING IN BLOCK COPOLYMER
ELASTOMERS (H031747); 24 MONTHS \$64,000
DODD, R A; POINT DEFECTS AND IMPURITIES IN CSC1 TYPE OR-
DERED PHASES, AND THEIR EFFECTS ON MECHANICAL PROPERTIES
(H031141); 12 MONTHS \$35,000

MATERIALS RESEARCH LABORATORIES

CALIFORNIA

STANFORD UNIVERSITY
HUGGINS, ROBERT A; MATERIALS RESEARCH LABORATORY PRO-
GRAM (H031630); 18 MONTHS \$1,113,900

ILLINOIS

NORTHWESTERN UNIVERSITY
WHITMORE, DONALD H; BASIC AND APPLIED RESEARCH IN
MATERIALS (H033373*); 12 MONTHS \$1,104,200

UNIVERSITY OF CHICAGO
LIGHT, JOHN C; RESEARCH IN MATERIALS SCIENCES (H033638); 12
MONTHS \$746,400

UNIVERSITY OF ILLINOIS AT URBANA
MAURER, ROBERT J; MATERIALS SCIENCES RESEARCH (H033644); 15
MONTHS \$1,329,200

INDIANA

PURDUE UNIVERSITY

HONIO, J M; MATERIALS RESEARCH LABORATORIES PROGRAM
(H033374*); 12 MONTHS \$763,700

MARYLAND

UNIVERSITY OF MARYLAND, COLLEGE PARK
LIPPINCOTT, ELLIS R; INTERDISCIPLINARY RESEARCH IN MATERI-
ALS SCIENCES (H033377); 12 MONTHS \$478,800

MASSACHUSETTS

HARVARD UNIVERSITY
MCKINNEY, PETER S; SUPPORT OF MATERIALS RESEARCH LABORA-
TORY (H033376); 12 MONTHS \$620,200

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
LAX, BENJAMIN; CONTRACT FOR OPERATION OF A HIGH MAGNET
FIELD RESEARCH AND DEVELOPMENT LABORATORY (C670000 001); 5
MONTHS \$900,000

LAX, BENJAMIN; OPERATION OF A HIGH MAGNET FIELD RESEARCH
AND DEVELOPMENT LABORATORY (C670000 004); 7 MONTHS \$1,170,000

LAX, BENJAMIN; OPERATION OF A HIGH MAGNET FIELD RESEARCH
AND DEVELOPMENT LABORATORY (C670000 003*); \$100,000

GRANT, NICHOLAS J; INTERDISCIPLINARY MATERIALS RESEARCH
(H033635*); 15 MONTHS \$1,509,000

NEW YORK

CORNELL UNIVERSITY
HUGHES, ROBERT E; INTERDISCIPLINARY MATERIALS RESEARCH
(H033637); 15 MONTHS \$1,832,700

NORTH CAROLINA

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
SMITH, CHARLES S JR; SUPPORT OF THE MATERIALS RESEARCH
CENTER (H033632); 12 MONTHS \$555,700

PENNSYLVANIA

UNIVERSITY OF PENNSYLVANIA
LANGENBERG, D N; MATERIALS RESEARCH PROGRAM (H033633); 15
MONTHS \$1,572,300

RHODE ISLAND

BROWN UNIVERSITY
HELLER, GERALD S; SUPPORT OF THE MATERIALS RESEARCH
LABORATORY (H033631); 15 MONTHS \$1,163,900

INSTITUTIONAL SUPPORT FOR SCIENCE AND COMPUTING ACTIVITIES

INSTITUTIONAL GRANTS FOR SCIENCE

ALABAMA

ALABAMA AGRICULTURAL AND MECHANICAL UNIVERSITY
(U003198 002); \$9,444

ALABAMA STATE UNIVERSITY
(U001045); \$4,165

AUBURN UNIVERSITY
(U003199 002); \$43,880

LIVINGSTON UNIVERSITY
(U003288 001); \$7,553

OAKWOOD COLLEGE
(U001014); \$3,653

TALLADEGA COLLEGE
(U001017); \$3,540

TROY STATE UNIVERSITY
(U003201 002); \$4,185

TUSKEGEE INSTITUTE
(U003208 002); \$13,915

UNIVERSITY OF ALABAMA IN BIRMINGHAM
(U003203 002); \$21,147

UNIVERSITY OF ALABAMA IN HUNTSVILLE
(U003204 002); \$21,147

UNIVERSITY OF ALABAMA, TUSCALOOSA
(U003205 002); \$18,318

UNIVERSITY OF SOUTH ALABAMA
(U001018); \$3,427

ALASKA

UNIVERSITY OF ALASKA
(U003107 002); \$66,893

ARIZONA

ARIZONA STATE UNIVERSITY
(U003208 002); \$20,075

MESA COMMUNITY COLLEGE
(U001019); \$1,674

NAVAJO COMMUNITY COLLEGE
(U003275); \$20,912

NORTHERN ARIZONA UNIVERSITY
(U003209 002); \$10,299

PRESCOTT COLLEGE
(U001050); \$4,696

UNIVERSITY OF ARIZONA
(U003211 002); \$73,250

ARKANSAS

AGRICULTURAL MECHANICAL AND NORMAL COL OF ARKANSAS
(U003274 001); \$3,596

ARKANSAS STATE UNIVERSITY
(U003218 002); \$3,502

HARDING COLLEGE
(U003275 001); \$9,030

SOUTHERN STATE COLLEGE
(U001051); \$3,370

UNIVERSITY OF ARKANSAS
(U003214 002); \$46,518

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY
(U003216 002); \$86,940

CALIFORNIA STATE COLLEGE AT SAN BERNARDINO
(U003221 001); \$3,841

CALIFORNIA STATE COLLEGE AT SONOMA
(U003217 002); \$1,874

CALIFORNIA STATE COLLEGE AT STANISLAUS
(U003229 001); \$3,465

CALIFORNIA STATE POLYTECHNIC UNIV, POMONA
(U003228 002); \$3,596

CALIFORNIA STATE UNIVERSITY, CHICO
(U003225 002); \$9,500

CALIFORNIA STATE UNIVERSITY, FRESNO
(U003230 002); \$14,986

CALIFORNIA STATE UNIVERSITY, FULLERTON
(U003217 002); \$9,266

CALIFORNIA STATE UNIVERSITY, HUMBOLDT
(U003233 002); \$3,879

CALIFORNIA STATE UNIVERSITY, LONG BEACH
(U003219 002); \$3,106

CALIFORNIA STATE UNIVERSITY, LOS ANGELES
(U003220 002); \$10,818

CALIFORNIA STATE UNIVERSITY, SACRAMENTO
(U003211 002); \$9,567

CALIFORNIA STATE UNIVERSITY, SAN DIEGO
(U003248 002); \$25,658

CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO
(U003244 002); \$10,668

CALIFORNIA STATE UNIVERSITY, SAN JOSE
(U003245 002); \$12,710

CALIFORNIA STATE UNIVERSITY, SAN LUIS OBISPO
(U003222 002); \$3,897

CHAPMAN COLLEGE
(U001052); \$3,370

CLAREMONT GRADUATE SCHOOL
(U003226 002); \$3,841

CLAREMONT MEN'S COLLEGE
(U003227 001); \$2,408

COLLEGE OF MARIN
(U001053); \$1,674

COLLEGE OF NOTRE DAME
(U003228 002); \$3,408

CUESTA COLLEGE
(U001054); \$1,674

HARVEY MUDD COLLEGE
(U002128 002); \$3,658

IMMACULATE HEART COLLEGE

(U003834 004); \$2,811

LANEY COLLEGE

(U003884 001); \$12,509

LOMA LINDA UNIVERSITY

(U003833 004); \$9,048

LOS ANGELES CITY COLLEGE

(U004053); \$10,901

MERRITT COLLEGE

(U003883 001); \$12,809

MILLS COLLEGE

(U003827 001); \$8,370

OCCIDENTAL COLLEGE

(U003828 004); \$8,653

PACIFIC COLLEGE

(U003831 001); \$1,474

PACIFIC OAKS COLLEGE

(U003839 002); \$10,249

PEPPERDINE UNIVERSITY

(U003824 001); \$9,349

POMONA COLLEGE

(U003840 002); \$8,491

SAN DIEGO DISTRICT COMMUNITY COLLEGES SYS OFF

(U003827 001); \$22,436

STANFORD UNIVERSITY

(U003828 002); \$98,401

UNITED STATES INTERNATIONAL UNIVERSITY

(U003890 001); \$9,010

UNIVERSITY OF CALIFORNIA SYSTEM OFFICE

(U003830 002); \$29,320

UNIVERSITY OF CALIFORNIA, BERKELEY

(U003831 002); \$93,022

UNIVERSITY OF CALIFORNIA, DAVIS

(U003832 002); \$68,356

UNIVERSITY OF CALIFORNIA, IRVINE

(U003834 002); \$41,360

UNIVERSITY OF CALIFORNIA, LOS ANGELES

(U003834 002); \$93,586

UNIVERSITY OF CALIFORNIA, RIVERSIDE

(U003833 002); \$35,603

UNIVERSITY OF CALIFORNIA, SAN DIEGO

(U003834 002); \$97,206

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

(U003837 002); \$39,588

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

(U003838 002); \$13,296

UNIVERSITY OF REDLANDS

(U003840 002); \$2,511

UNIVERSITY OF SAN DIEGO COORDINATE COLLEGES

(U003891 001); \$9,557

UNIVERSITY OF SAN FRANCISCO

(U003881 002); \$11,270

UNIVERSITY OF SANTA CLARA

(U003882 002); \$10,886

UNIVERSITY OF SOUTHERN CALIFORNIA

(U003883 002); \$69,877

UNIVERSITY OF THE PACIFIC

(U003839 002); \$11,120

COLORADO**COLORADO COLLEGE**

(U003884 002); \$8,634

COLORADO SCHOOL OF MINES

(U004056); \$28,134

COLORADO STATE UNIVERSITY

(U003827 002); \$79,544

LORETTO HEIGHTS COLLEGE

(U003868 002); \$5,859

MESA COLLEGE

(U004037); \$1,674

SOUTHERN COLORADO STATE COLLEGE

(U004058); \$9,531

TEMPLE BUELL COLLEGE

(U003889 002); \$4,185

TRINIDAD STATE JUNIOR COLLEGE

(U004039); \$2,511

UNIVERSITY OF COLORADO

(U004060); \$82,980

UNIVERSITY OF DENVER

(U003871 002); \$44,189

UNIVERSITY OF NORTHERN COLORADO

(U003886 001); \$9,575

CONNECTICUT**CONNECTICUT COLLEGE**

(U003873 002); \$8,602

FAIRFIELD UNIVERSITY

(U003874 002); \$8,483

NEW ENGLAND INSTITUTE

(U003875 002); \$9,030

SOUTHERN CONNECTICUT STATE COLLEGE

(U003892 001); \$8,445

ST JOSEPH COLLEGE

(U003876 002); \$7,633

TRINITY COLLEGE

(U003877 002); \$8,558

UNIVERSITY OF BRIDGEPORT

(U003893 001); \$8,558

UNIVERSITY OF CONNECTICUT

(U003878 002); \$40,741

UNIVERSITY OF HARTFORD

(U003879 001); \$8,396

WESLEYAN UNIVERSITY

(U003880 002); \$18,301

WESTERN CONNECTICUT STATE COLLEGE

(U004061); \$8,370

YALE UNIVERSITY

(U003888 002); \$82,361

DELAWARE**DELAWARE STATE COLLEGE**

(U003894 001); \$8,578

UNIVERSITY OF DELAWARE

(U003883 002); \$35,267

DISTRICT OF COLUMBIA**AMERICAN UNIVERSITY**

(U003884 002); \$35,970

CATHOLIC UNIVERSITY OF AMERICA

(U003885 002); \$36,101

DUNBARTON COLLEGE OF HOLY CROSS

(U004062); \$8,427

FEDERAL CITY COLLEGE

(U003895 001); \$8,709

GALLAUDET COLLEGE

(U003886 002); \$12,676

GEORGE WASHINGTON UNIVERSITY

(U003887 002); \$64,336

GEORGETOWN UNIVERSITY

(U003888 002); \$34,578

HOWARD UNIVERSITY

(U003889 002); \$20,996

FLORIDA**FLORIDA AGRICULTURAL AND MECHANICAL UNIVERSITY**

(U003898 002); \$8,728

FLORIDA ATLANTIC UNIVERSITY

(U003893 002); \$10,735

FLORIDA INSTITUTE OF TECHNOLOGY
(U003291 009); \$10,083

FLORIDA PRESBYTERIAN COLLEGE
(U003293 009); \$8,389

FLORIDA STATE UNIVERSITY
(U003294 009); \$63,861

FLORIDA TECHNOLOGICAL UNIVERSITY
(U003297 001); \$9,123

MIAMI-DADE JUNIOR COLLEGE
(U003297 001); \$1,674

NOVA UNIVERSITY
(U003299 009); \$16,694

ST LEO COLLEGE
(U003043); \$1,674

STETSON UNIVERSITY
(U003300 009); \$8,809

UNIVERSITY OF FLORIDA
(U003301 009); \$72,046

UNIVERSITY OF MIAMI
(U003308 009); \$74,242

UNIVERSITY OF SOUTH FLORIDA
(U003309 009); \$13,698

GEORGIA

ATLANTA UNIVERSITY
(U003305 009); \$12,443

CLARK COLLEGE
(U003300 001); \$7,533

EMORY UNIVERSITY
(U003307 009); \$27,079

FORT VALLEY STATE COLLEGE
(U003308 009); \$8,841

GEORGIA COLLEGE AT MILLEDGEVILLE
(U003304); \$5,859

GEORGIA INSTITUTE OF TECHNOLOGY
(U003309 009); \$66,747

GEORGIA SOUTHERN COLLEGE
(U003310 009); \$9,067

GEORGIA STATE UNIVERSITY
(U003311 009); \$9,406

MEDICAL COLLEGE OF GEORGIA
(U003312 009); \$10,199

MOREHOUSE COLLEGE
(U003043); \$8,408

MORRIS BROWN COLLEGE
(U003044); \$1,674

UNIVERSITY OF GEORGIA
(U003314 009); \$68,496

WEST GEORGIA COLLEGE
(U003047); \$8,709

GUAM

UNIVERSITY OF GUAM
(U003156); \$9,048

HAWAII

UNIVERSITY OF HAWAII
(U003318 009); \$77,256

IDAHO

IDAHO STATE UNIVERSITY
(U003317 009); \$8,427

UNIVERSITY OF IDAHO
(U003318 009); \$29,437

ILLINOIS

BLACKBURN COLLEGE
(U003303 001); \$1,674

BRADLEY UNIVERSITY
(U003370 009); \$8,840

CHICAGO MEDICAL SCHOOL
(U003048); \$8,485

CITY COLLEGES OF CHICAGO
(U003311 009); \$3,348

DEPAUL UNIVERSITY
(U003312 009); \$9,834

ELMHURST COLLEGE
(U003049); \$1,674

ILLINOIS BENEDICTINE COLLEGE
(U003314 009); \$9,801

ILLINOIS INSTITUTE OF TECHNOLOGY
(U003327 009); \$48,370

ILLINOIS STATE UNIVERSITY
(U003328 009); \$8,815

ILLINOIS WESLEYAN UNIVERSITY
(U003070); \$1,674

KNOX COLLEGE
(U003330 009); \$7,533

LEWIS COLLEGE
(U003071); \$4,185

LOYOLA UNIVERSITY
(U003333 009); \$10,801

MACMURRAY COLLEGE
(U003334 001); \$1,674

NORTH CENTRAL COLLEGE
(U003337 009); \$2,611

NORTHERN ILLINOIS UNIVERSITY
(U003072); \$12,208

NORTHWESTERN UNIVERSITY
(U003339 009); \$68,500

QUINCY COLLEGE
(U003073); \$3,502

ROOSEVELT UNIVERSITY
(U003341 009); \$3,370

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE
(U003343 009); \$12,810

SOUTHERN ILLINOIS UNIVERSITY - EDWARDSVILLE
(U003305 001); \$9,161

TRITON COLLEGE
(U003074); \$9,821

UNIVERSITY OF CHICAGO
(U003348 009); \$90,884

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE
(U003347 009); \$25,863

UNIVERSITY OF ILLINOIS AT URBANA
(U003349 009); \$96,885

UNIVERSITY OF ILLINOIS SYSTEM OFFICE
(U003348 009); \$12,459

INDIANA

BALL STATE UNIVERSITY
(U003351 009); \$1,674

DEPAUW UNIVERSITY
(U003352 009); \$8,427

EARLHAM COLLEGE
(U003353 009); \$8,653

INDIANA STATE UNIVERSITY
(U003355 009); \$8,370

INDIANA UNIVERSITY, BLOOMINGTON
(U003356 009); \$62,428

INDIANA UNIVERSITY, INDIANAPOLIS
(U003306 001); \$9,670

MANCHESTER COLLEGE
(U003357 001); \$1,674

PURDUE UNIVERSITY
(U003358 009); \$86,866

ROSE-HULMAN INSTITUTE OF TECHNOLOGY
(U003359 001); \$8,578

ST MARY'S COLLEGE
(U003307 001); \$1,674

UNIVERSITY OF NOTRE DAME
(U003161 008); \$42,106

IOWA

BURNA VISTA COLLEGE
(U004073); \$1,874

CENTRAL COLLEGE
(U003166 008); \$1,874

COE COLLEGE
(U003168 008); \$5,022

CORNELL COLLEGE
(U003169 008); \$3,348

DORDT COLLEGE
(U003170 008); \$2,511

DRAKE UNIVERSITY
(U003171 001); \$9,218

GRINNELL COLLEGE
(U003172 008); \$2,613

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY
(U003173 008); \$52,336

LUTHER COLLEGE
(U003176 008); \$2,511

SIMPSON COLLEGE
(U003108 001); \$1,874

UNIVERSITY OF IOWA
(U003178 008); \$61,231

WARTBURG COLLEGE
(U004076); \$1,874

KANSAS

BENEDICTINE COLLEGE
(U003182 008); \$2,311

KANSAS STATE COLLEGE OF PITTSBURG
(U003183 008); \$3,348

KANSAS STATE UNIVERSITY
(U003187 008); \$19,630

OTTAWA UNIVERSITY
(U004077); \$1,874

UNIVERSITY OF KANSAS
(U003190 008); \$49,839

WASHBURN UNIVERSITY OF TOPEKA
(U003191 001); \$1,874

WICHITA STATE UNIVERSITY
(U003192 008); \$8,935

KENTUCKY

BELLARMINO-URSULINE COLLEGE
(U003193 008); \$8,502

EASTERN KENTUCKY UNIVERSITY
(U003197 008); \$17,231

KENTUCKY STATE COLLEGE
(U003198 008); \$8,540

MOREHEAD STATE UNIVERSITY
(U003199 008); \$12,007

THOMAS MORE COLLEGE
(U003113 001); \$5,859

UNIVERSITY OF KENTUCKY
(U003101 008); \$65,797

UNIVERSITY OF LOUISVILLE
(U003102 008); \$15,221

WESTERN KENTUCKY UNIVERSITY
(U003103 008); \$2,878

LOUISIANA

DELGADO VOCATIONAL TECHNICAL JUNIOR COLLEGE
(U003105 008); \$11,263

GRAMBLING COLLEGE
(U003107 008); \$2,691

LOUISIANA STATE UNIVERSITY SYSTEM OFFICE
(U003109 008); \$13,396

LOUISIANA STATE UNIVERSITY, BATON ROUGE
(U003110 008); \$66,420

LOUISIANA STATE UNIVERSITY, NEW ORLEANS
(U003111 008); \$10,969

LOUISIANA TECH UNIVERSITY
(U003104 008); \$9,256

LOYOLA UNIVERSITY
(U003112 008); \$2,964

NICHOLLS STATE UNIVERSITY
(U003106 001); \$10,299

NORTHEAST LOUISIANA UNIVERSITY
(U003113 008); \$2,389

NORTHWESTERN STATE UNIVERSITY OF LOUISIANA
(U003114 008); \$2,389

SOUTHERN UNIVERSITY
(U003115 008); \$15,070

TULANE UNIVERSITY
(U003116 008); \$27,256

UNIVERSITY OF SOUTHWESTERN LOUISIANA
(U003115 001); \$2,860

XAVIER UNIVERSITY OF LOUISIANA
(U003117 008); \$2,329

MAINE

BOWDOIN COLLEGE
(U003118 008); \$2,691

COLBY COLLEGE
(U003119 008); \$2,370

UNIVERSITY OF MAINE SYSTEM OFFICE
(U004159); \$27,592

MARYLAND

BOWIE STATE COLLEGE
(U004078); \$2,804

CATONSVILLE COMMUNITY COLLEGE
(U004079); \$5,859

CHEEPEAKE COLLEGE
(U003117 001); \$2,408

COLUMBIA UNION COLLEGE
(U003118 001); \$7,533

FROSTBURG STATE COLLEGE
(U003119 001); \$7,533

GOUCHER COLLEGE
(U003121 001); \$2,747

HARFORD COMMUNITY COLLEGE
(U004080); \$1,674

JOHNS HOPKINS UNIVERSITY
(U003121 008); \$69,525

MORGAN STATE COLLEGE
(U003126 008); \$2,766

UNIVERSITY OF MARYLAND, COLLEGE PARK
(U003127 008); \$27,649

WESTERN MARYLAND COLLEGE
(U003119 001); \$2,596

MASSACHUSETTS

AMHERST COLLEGE
(U003130 008); \$9,538

BOSTON COLLEGE
(U003131 008); \$32,820

BOSTON UNIVERSITY
(U003132 008); \$35,531

BRANDEIS UNIVERSITY
(U003133 008); \$49,496

BRIDGEWATER STATE COLLEGE
(U004081); \$2,784

CLARK UNIVERSITY
(U003134 008); \$13,162

COLLEGE OF THE HOLY CROSS
(U003135 008); \$9,105

EMERSON COLLEGE
(U004069); \$3,348

EMMANUEL COLLEGE
(U004176 002); \$13,888

FORSYTH SCHOOL OF DENTAL HYGIENISTS
(U004083); \$9,123

GORDON COLLEGE
(U004081); \$1,874

HARVARD UNIVERSITY
(U004172 002); \$92,152

LOWELL STATE COLLEGE
(U004083); \$1,874

LOWELL TECHNOLOGICAL INSTITUTE
(U004179 002); \$20,069

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
(U004140 002); \$121,894

MASSASOIT COMMUNITY COLLEGE
(U004088); \$1,874

MOUNT HOLYOKE COLLEGE
(U004148 002); \$5,859

NORTHEASTERN UNIVERSITY
(U004143 002); \$35,443

REGIS COLLEGE
(U003984 001); \$11,689

SIMMONS COLLEGE
(U004087); \$8,427

SMITH COLLEGE
(U004111 002); \$8,804

SOUTHEASTERN MASSACHUSETTS UNIVERSITY
(U004145 002); \$8,389

SUFFOLK UNIVERSITY
(U004088); \$8,634

TUFTS UNIVERSITY
(U004117 002); \$26,482

UNIVERSITY OF MASSACHUSETTS, AMHERST
(U004148 002); \$53,949

WELLESLEY COLLEGE
(U004148 002); \$8,427

WENTWORTH INSTITUTE
(U004150 002); \$21,431

WHEATON COLLEGE
(U004131 002); \$6,896

WILLIAMS COLLEGE
(U004152 002); \$11,120

WOODS HOLE OCEANOGRAPHIC INSTITUTION
(U003927 001); \$84,926

WORCESTER POLYTECHNIC INSTITUTE
(U004133 002); \$12,780

MICHIGAN

ADRIAN COLLEGE
(U003928 001); \$6,896

ALBION COLLEGE
(U004134 002); \$1,874

ALMA COLLEGE
(U004155 002); \$8,408

ANDREWS UNIVERSITY
(U004088); \$1,874

CALVIN COLLEGE
(U004156 002); \$8,634

EASTERN MICHIGAN UNIVERSITY
(U004160 002); \$10,115

GRAND RAPIDS JUNIOR COLLEGE
(U004090); \$1,874

HOPE COLLEGE
(U004168 002); \$8,973

KALAMAZOO COLLEGE
(U004163 002); \$8,671

LAKE MICHIGAN COLLEGE
(U004091); \$1,874

LAKE SUPERIOR STATE COLLEGE
(U004092); \$1,874

MERCY COLLEGE OF DETROIT
(U004144 002); \$8,483

MICHIGAN STATE UNIVERSITY
(U004185 002); \$77,552

MICHIGAN TECHNOLOGICAL UNIVERSITY
(U004186 002); \$14,049

NAZARETH COLLEGE
(U004083); \$1,874

NORTHERN MICHIGAN UNIVERSITY
(U004187 002); \$8,370

OAKLAND UNIVERSITY
(U004188 002); \$10,534

OLIVET COLLEGE
(U004094); \$1,874

UNIVERSITY OF DETROIT
(U004189 002); \$10,487

UNIVERSITY OF MICHIGAN
(U004170 002); \$95,881

WAYNE STATE UNIVERSITY
(U004171 002); \$35,369

WESTERN MICHIGAN UNIVERSITY
(U004178 002); \$12,107

MINNESOTA

BETHEL COLLEGE AND SEMINARY
(U004083); \$1,874

CARLETON COLLEGE
(U004174 002); \$8,766

CONCORDIA COLLEGE AT MOORHEAD
(U003931 001); \$1,874

FERGUS FALLS STATE JUNIOR COLLEGE
(U004096); \$1,874

GUSTAVUS ADOLPHUS COLLEGE
(U004177 002); \$1,874

HAMLIN UNIVERSITY
(U004178 002); \$10,047

MACALESTER COLLEGE
(U004179 002); \$4,185

MANKATO STATE COLLEGE
(U003934 001); \$5,022

MOORHEAD STATE COLLEGE
(U004180 002); \$8,841

ST OLAF COLLEGE
(U004182 002); \$9,312

UNIVERSITY OF MINNESOTA
(U004183 002); \$87,735

WINONA STATE COLLEGE
(U004184 002); \$8,370

MISSISSIPPI

ALCORN AGRICULTURAL AND MECHANICAL COLLEGE
(U004185 002); \$8,596

HOLMES JUNIOR COLLEGE
(U004097); \$1,874

MARY HOLMES COLLEGE
(U004098); \$10,567

MISSISSIPPI STATE UNIVERSITY
(U004187 002); \$48,734

UNIVERSITY OF MISSISSIPPI
(U004189 002); \$19,774

MISSOURI

LINCOLN UNIVERSITY
(U004192 002); \$9,199

MISSOURI BAPTIST COLLEGE

(U004099); \$1,674

MISSOURI WESTERN COLLEGE

(U004100); \$1,674

SOUTHEAST MISSOURI STATE COLLEGE

(U003498 002); \$6,696

SOUTHWEST MISSOURI STATE COLLEGE

(U003498 002); \$6,634

ST LOUIS JUNIOR COLLEGE DISTRICT

(U003928 001); \$6,389

ST LOUIS UNIVERSITY

(U003499 002); \$26,859

UNIVERSITY OF MISSOURI, COLUMBIA

(U003500 002); \$53,011

UNIVERSITY OF MISSOURI, KANSAS CITY

(U003501 002); \$9,019

UNIVERSITY OF MISSOURI, ROLLA

(U003502 002); \$28,793

UNIVERSITY OF MISSOURI, ST LOUIS

(U003503 002); \$11,940

WASHINGTON UNIVERSITY

(U003504 002); \$51,908

MONTANA**MONTANA COLLEGE OF MINERAL SCIENCE & TECH**

(U003505 002); \$9,256

MONTANA STATE UNIVERSITY

(U003506 002); \$35,677

UNIVERSITY OF MONTANA

(U003507 002); \$14,434

NEBRASKA**CONCORDIA TEACHERS COLLEGE**

(U003508 002); \$5,859

CREIGHTON UNIVERSITY

(U003510 002); \$8,671

DANA COLLEGE

(U004101); \$8,691

UNIVERSITY OF NEBRASKA AT LINCOLN

(U003513 002); \$40,088

UNIVERSITY OF NEBRASKA SYSTEM OFFICE

(U003514 002); \$13,212

NEVADA**UNIVERSITY OF NEVADA SYSTEM OFFICE**

(U003516 002); \$38,196

UNIVERSITY OF NEVADA, LAS VEGAS

(U004102); \$9,349

UNIVERSITY OF NEVADA, RENO

(U003517 002); \$19,690

NEW HAMPSHIRE**DARTMOUTH COLLEGE**

(U003518 002); \$23,826

FRANKLIN PIERCE COLLEGE

(U004103); \$9,500

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

(U003519 002); \$47,244

NEW JERSEY**COLLEGE OF MEDICINE & DENTISTRY OF NEW JERSEY**

(U003525 002); \$8,502

FAIRLEIGH DICKINSON UNIVERSITY

(U003522 002); \$6,696

MONMOUTH COLLEGE

(U003524 002); \$8,621

NEWARK COLLEGE OF ENGINEERING

(U003526 002); \$13,882

PRINCETON UNIVERSITY

(U003527 002); \$87,780

RIDER COLLEGE

(U003930 001); \$8,578

RUTGERS UNIVERSITY

(U003528 002); \$51,155

SETON HALL UNIVERSITY

(U003529 002); \$8,671

STEVENS INSTITUTE OF TECHNOLOGY

(U003530 002); \$42,466

TRENTON STATE COLLEGE

(U003931 001); \$1,674

UPSALA COLLEGE

(U004104); \$6,696

WILLIAM PATERSON COLLEGE

(U004105); \$3,248

NEW MEXICO**EASTERN NEW MEXICO UNIVERSITY**

(U003531 002); \$11,823

NEW MEXICO HIGHLANDS UNIVERSITY

(U003532 002); \$7,533

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

(U003533 002); \$25,014

NEW MEXICO STATE UNIVERSITY

(U003534 002); \$69,919

UNIVERSITY OF ALBUQUERQUE

(U003536 002); \$8,445

UNIVERSITY OF NEW MEXICO

(U003537 002); \$50,960

NEW YORK**ADELPHI UNIVERSITY**

(U003539 002); \$9,901

AGRICULTURAL AND TECH COLLEGE AT ALFRED

(U004113); \$8,784

AGRICULTURAL AND TECH COLLEGE AT CANTON

(U004114); \$1,674

ALBANY MEDICAL COLLEGE

(U003540 002); \$30,213

ALFRED UNIVERSITY

(U004106); \$6,696

BANK STREET COLLEGE OF EDUCATION

(U003932 001); \$8,615

BARNARD COLLEGE

(U003541 002); \$9,971

BRONX COMMUNITY COLLEGE

(U004157); \$9,199

BROOKLYN COLLEGE

(U003549 002); \$10,249

CANISIUS COLLEGE

(U003933 002); \$5,022

CITY COLLEGE

(U003550 002); \$22,687

CITY UNIVERSITY OF NEW YORK SYSTEM OFFICE

(U003547 002); \$14,668

CLARKSON COLLEGE OF TECHNOLOGY

(U003548 002); \$18,067

COLGATE UNIVERSITY

(U003545 002); \$9,293

COLLEGE AT BROCKPORT

(U003579 002); \$8,747

COLLEGE AT BUFFALO

(U003580 002); \$8,728

COLLEGE AT FREDONIA

(U003582 002); \$9,482

COLLEGE AT NEW PALTZ

(U003583 002); \$8,370

COLLEGE AT ONEONTA

(U003584 001); \$5,022

COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY

(U003584 008); \$12,777

COLLEGE OF PHARMACEUTICAL SCIENCES

(U003555 001); \$3,389

COLUMBIA UNIVERSITY

(U003514 008); \$96,136

COOPER UNION

(U003543 001); \$3,804

CORNELL UNIVERSITY

(U003510 008); \$89,698

DOMINICAN COLLEGE OF BLAUVELT

(U001109); \$6,696

DOWLING COLLEGE

(U001110); \$5,859

FORDHAM UNIVERSITY

(U003554 008); \$12,208

GRADUATE SCHOOL AND UNIVERSITY CENTER

(U001107); \$11,872

HAMILTON COLLEGE

(U003553 001); \$5,493

HOBART AND WILLIAM SMITH COLLEGES

(U003561 001); \$1,674

HOFSTRA UNIVERSITY

(U003556 008); \$10,383

HUNTER COLLEGE

(U001153); \$11,957

ITHACA COLLEGE

(U003557 008); \$5,022

LEHMAN COLLEGE

(U001056 001); \$3,445

LONG ISLAND UNIVERSITY

(U003559 008); \$12,074

MANHATTAN COLLEGE

(U003560 008); \$3,954

MARIST COLLEGE

(U003562 001); \$1,674

NEW SCHOOL FOR SOCIAL RESEARCH

(U003564 001); \$9,425

NEW YORK MEDICAL COLLEGE

(U003565 008); \$10,182

NEW YORK UNIVERSITY

(U003566 008); \$80,494

POLYTECHNIC INSTITUTE OF BROOKLYN

(U003568 008); \$44,348

QUEENS COLLEGE

(U001058 001); \$11,605

QUEENSBOROUGH COMMUNITY COLLEGE

(U001108); \$1,674

RENSSELAER POLYTECHNIC INSTITUTE

(U003569 008); \$62,762

RICHMOND COLLEGE

(U003557 001); \$3,804

ROCHESTER INSTITUTE OF TECHNOLOGY

(U003570 008); \$11,153

ROCKEFELLER UNIVERSITY

(U003571 008); \$16,326

RUSSELL SAGE COLLEGE

(U001112); \$4,185

ST BONAVENTURE UNIVERSITY

(U003587 001); \$1,674

ST JOHN'S UNIVERSITY

(U003575 008); \$3,521

ST LAWRENCE UNIVERSITY

(U003576 008); \$9,425

STATE UNIVERSITY AT ALBANY

(U003581 008); \$29,126

STATE UNIVERSITY AT BINGHAMTON

(U003582 008); \$18,928

STATE UNIVERSITY AT BUFFALO

(U003588 008); \$39,837

STATE UNIVERSITY AT STONY BROOK

(U003590 008); \$66,642

STATE UNIVERSITY OF NEW YORK SYSTEM OFFICE

(U003577 008); \$14,936

SYRACUSE UNIVERSITY

(U003581 008); \$59,440

TEACHERS COLLEGE

(U003589 008); \$17,447

UNION COLLEGE

(U003593 008); \$9,708

UNIVERSITY OF ROCHESTER

(U003594 008); \$90,892

WEBB INSTITUTE OF NAVAL ARCHITECTURE

(U003598 008); \$3,691

YESHIVA UNIVERSITY

(U003597 008); \$54,802

YORK COLLEGE

(U003599 001); \$1,674

NEW YORK INSTITUTE OF TECHNOLOGY-NEW YORK CITY CAMPUS

(U001111); \$17,012

NORTH CAROLINA

CHOWAN COLLEGE

(U001115); \$3,348

DUKE UNIVERSITY

(U003600 008); \$69,622

EAST CAROLINA UNIVERSITY

(U003601 008); \$3,634

GASTON COLLEGE

(U001118); \$7,533

NORTH CAROLINA AGRICULTURAL & TECH STATE UNIV

(U003603 008); \$12,911

NORTH CAROLINA CENTRAL UNIVERSITY

(U003604 008); \$3,725

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

(U003610 008); \$68,609

NORTH CAROLINA WESLEYAN COLLEGE

(U001117); \$3,408

PFIEFFER COLLEGE

(U001118); \$1,674

SHAW UNIVERSITY

(U003976 001); \$10,216

ST ANDREWS PRESBYTERIAN COLLEGE

(U003608 008); \$9,048

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

(U003608 008); \$53,957

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

(U003609 008); \$10,919

WAKE FOREST UNIVERSITY

(U003612 008); \$9,462

WESTERN CAROLINA UNIVERSITY

(U003977 001); \$10,065

NORTH DAKOTA

MINOT STATE COLLEGE

(U003614 008); \$3,466

NORTH DAKOTA STATE UNIVERSITY

(U003615 008); \$26,296

UNIVERSITY OF NORTH DAKOTA

(U003616 008); \$15,656

OHIO

ANTIOCH COLLEGE

(U003617 008); \$10,283

BOWLING GREEN STATE UNIVERSITY

(U003619 002); \$10,047

CASE WESTERN RESERVE UNIVERSITY

(U003620 002); \$71,333

CEDARVILLE COLLEGE

(U004118); \$3,348

CENTRAL STATE UNIVERSITY

(U003621 002); \$13,162

CLEVELAND STATE UNIVERSITY

(U003622 002); \$10,009

COLLEGE OF WOOSTER

(U003623 002); \$3,540

DENISON UNIVERSITY

(U003625 002); \$8,427

HEIDELBERG COLLEGE

(U004120); \$7,533

HIRAM COLLEGE

(U003627 002); \$3,502

JOHN CARROLL UNIVERSITY

(U003628 002); \$10,333

KENT STATE UNIVERSITY

(U003629 002); \$22,938

KENYON COLLEGE

(U003630 002); \$3,358

MEDICAL COLLEGE OF OHIO AT TOLEDO

(U004121); \$3,935

MIAMI UNIVERSITY

(U003632 002); \$12,927

MUSKINGUM COLLEGE

(U003631 002); \$1,674

OSBERLIN COLLEGE

(U003633 002); \$10,450

OHIO DOMINICAN COLLEGE

(U004122); \$1,674

OHIO STATE UNIVERSITY

(U003637 002); \$36,953

OHIO UNIVERSITY

(U003638 002); \$14,819

OHIO WESLEYAN UNIVERSITY

(U003639 002); \$4,185

UNIVERSITY OF AKRON

(U003641 002); \$11,404

UNIVERSITY OF CINCINNATI

(U003642 002); \$41,151

UNIVERSITY OF DAYTON

(U003643 002); \$56,548

UNIVERSITY OF TOLEDO

(U003644 002); \$11,890

WITTENBERG UNIVERSITY

(U003645 001); \$4,185

WRIGHT STATE UNIVERSITY

(U003646 002); \$15,690

YOUNGSTOWN STATE UNIVERSITY

(U003648 002); \$3,860

OKLAHOMA**CAMERON STATE AGRICULTURAL COLLEGE**

(U004123); \$1,674

EAST CENTRAL STATE COLLEGE

(U003651 001); \$9,745

LANGSTON UNIVERSITY

(U003651 002); \$3,483

OKLAHOMA CHRISTIAN COLLEGE

(U004124); \$3,370

OKLAHOMA CITY UNIVERSITY

(U003653 001); \$3,370

OKLAHOMA STATE UNIVERSITY

(U003654 002); \$51,245

SOUTHWESTERN STATE COLLEGE

(U003655 002); \$3,841

UNIVERSITY OF OKLAHOMA

(U003656 002); \$34,109

UNIVERSITY OF TULSA

(U003657 002); \$2,511

OREGON**LINFIELD COLLEGE**

(U004125); \$9,369

OREGON STATE UNIVERSITY

(U003662 002); \$72,911

PORTLAND COMMUNITY COLLEGE

(U004126); \$1,674

PORTLAND STATE UNIVERSITY

(U003663 002); \$9,444

REED COLLEGE

(U003664 002); \$10,165

SOUTHERN OREGON COLLEGE

(U003665 002); \$3,502

UNIVERSITY OF OREGON - EUGENE

(U003666 002); \$68,680

PENNSYLVANIA**ALLEGHENY COLLEGE**

(U003669 002); \$2,511

BRYN MAWR COLLEGE

(U003670 002); \$10,027

BUCKNELL UNIVERSITY

(U003671 002); \$9,482

BUCKS COUNTY COMMUNITY COLLEGE

(U004127); \$1,674

CARNEGIE-MELLON UNIVERSITY

(U003672 002); \$37,797

DICKINSON COLLEGE

(U003673 002); \$3,445

DREXEL UNIVERSITY

(U003674 002); \$28,514

DUQUESNE UNIVERSITY

(U003677 002); \$3,370

ELIZABETHTOWN COLLEGE

(U003679 002); \$4,185

FRANKLIN AND MARSHALL COLLEGE

(U003680 002); \$9,274

GENEVA COLLEGE

(U004128); \$3,859

HAHNEMANN MEDICAL COLLEGE AND HOSPITAL

(U003683 002); \$12,743

HAYERFORD COLLEGE

(U003684 002); \$3,935

HOLY FAMILY COLLEGE

(U004129); \$2,511

JUNIATA COLLEGE

(U003686 002); \$3,859

LAFAYETTE COLLEGE

(U003687 002); \$2,389

LEHIGH UNIVERSITY

(U003688 002); \$46,993

LINCOLN UNIVERSITY

(U003689 002); \$3,558

LOCK HAVEN STATE COLLEGE

(U004130); \$1,674

LYCOMING COLLEGE

(U003690 002); \$4,185

MEDICAL COLLEGE OF PENNSYLVANIA

(U003710 002); \$10,483

MESSIAH COLLEGE

(U004131); \$337

MILLERSVILLE STATE COLLEGE

(U003692 002); \$1,674

MUHLENBERG COLLEGE
(U003688 002); \$5,850

PENNSYLVANIA STATE UNIVERSITY
(U003689 002); \$78,314

PHILADELPHIA COLLEGE OF TEXTILES AND SCIENCE
(U003697 001); \$9,312

PMC COLLEGES
(U003694 002); \$3,747

SHIPPENSBURG STATE COLLEGE
(U003694 001); \$3,348

SLIPPERY ROCK STATE COLLEGE
(U004132); \$3,427

SUSQUEHANNA UNIVERSITY
(U003995 001); \$5,022

SWARTHMORE COLLEGE
(U003999 002); \$10,836

TEMPLE UNIVERSITY
(U003700 002); \$33,582

THOMAS JEFFERSON UNIVERSITY HOSPITAL
(U003883 002); \$13,463

UNIVERSITY OF PENNSYLVANIA
(U003702 002); \$78,142

UNIVERSITY OF PITTSBURGH
(U003702 002); \$66,847

UNIVERSITY OF SCRANTON
(U004133); \$1,674

WESTMINSTER COLLEGE
(U003708 002); \$3,348

WILSON COLLEGE
(U003709 001); \$1,674

PUERTO RICO

UNIVERSITY OF PUERTO RICO SYSTEM OFFICE
(U003822 002); \$24,429

UNIVERSITY OF PUERTO RICO, MAYAGUEZ
(U003822 002); \$33,318

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS
(U003820 002); \$9,274

RHODE ISLAND

BROWN UNIVERSITY
(U003711 002); \$52,643

PROVIDENCE COLLEGE
(U003712 002); \$8,653

RHODE ISLAND COLLEGE
(U003714 002); \$8,658

UNIVERSITY OF RHODE ISLAND
(U003714 002); \$48,692

SOUTH CAROLINA

CLAFLIN COLLEGE
(U004141); \$1,674

CLEMSON UNIVERSITY
(U003715 002); \$42,063

FURMAN UNIVERSITY
(U003717 002); \$8,463

MEDICAL UNIVERSITY OF SOUTH CAROLINA
(U003718 002); \$17,548

SOUTH CAROLINA STATE COLLEGE
(U003719 002); \$8,671

UNIVERSITY OF SOUTH CAROLINA
(U003720 002); \$18,268

SOUTH DAKOTA

AUGUSTANA COLLEGE
(U003722 002); \$8,935

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY
(U003725 002); \$20,946

SOUTH DAKOTA STATE UNIVERSITY
(U003726 002); \$34,886

UNIVERSITY OF SOUTH DAKOTA
(U003727 002); \$11,253

TENNESSEE

CLEVELAND STATE COMMUNITY COLLEGE
(U004135); \$1,674

FISK UNIVERSITY
(U004006 001); \$3,747

GEORGE PEABODY COLLEGE FOR TEACHERS
(U003721 002); \$12,107

MEMPHIS STATE UNIVERSITY
(U003724 002); \$11,990

SOUTHWESTERN AT MEMPHIS
(U003726 001); \$6,696

TENNESSEE STATE UNIVERSITY
(U003727 002); \$9,463

TENNESSEE TECHNOLOGICAL UNIVERSITY
(U003728 002); \$10,712

UNIVERSITY OF TENNESSEE SYSTEM OFFICE
(U003729 002); \$16,376

UNIVERSITY OF TENNESSEE, KNOXVILLE
(U003730 002); \$67,307

VANDERBILT UNIVERSITY
(U003732 002); \$39,632

TEXAS

BAYLOR COLLEGE OF MEDICINE
(U004136); \$28,178

BAYLOR UNIVERSITY
(U003734 002); \$14,685

BISHOP COLLEGE
(U004137); \$8,936

DALLAS COUNTY JUNIOR COLLEGE DISTRICT
(U004138); \$1,674

HOUSTON BAPTIST COLLEGE
(U004139); \$9,106

LAMAR UNIVERSITY
(U003743 002); \$8,671

MCLENNAN COMMUNITY COLLEGE
(U004140); \$1,674

MCMURRY COLLEGE
(U004141); \$1,674

NORTH TEXAS STATE UNIVERSITY
(U003747 002); \$9,274

PRAIRIE VIEW AGRICULTURAL & MECHANICAL COLLEGE
(U003749 002); \$9,567

RICE UNIVERSITY
(U003750 002); \$60,846

SAM HOUSTON STATE UNIVERSITY
(U003751 002); \$6,696

SAN ANTONIO COLLEGE
(U004142); \$1,674

SOUTHERN METHODIST UNIVERSITY
(U003752 002); \$30,609

SOUTHWEST TEXAS STATE UNIVERSITY
(U003753 002); \$8,691

SOUTHWESTERN UNIVERSITY
(U004015 001); \$1,674

STEPHEN F AUSTIN STATE UNIVERSITY
(U003754 001); \$8,663

SUL ROSS STATE UNIVERSITY
(U003755 001); \$8,502

TARRANT COUNTY JUNIOR COLLEGE
(U004143); \$5,869

TEXAS A & I UNIVERSITY
(U004018 001); \$9,274

TEXAS A & M UNIVERSITY
(U003756 002); \$76,142

TEXAS CHRISTIAN UNIVERSITY
(U003757 002); \$12,406

TEXAS SOUTHERN UNIVERSITY
(U001144); \$8,766

TEXAS TECH UNIVERSITY
(U003759 002); \$20,745

TEXAS WOMAN'S UNIVERSITY
(U003760 002); \$9,161

TRINITY UNIVERSITY
(U003761 002); \$8,596

UNIV OF TEXAS AT ARLINGTON
(U003765 002); \$9,231

UNIV OF TEXAS AT AUSTIN
(U003766 002); \$26,013

UNIV OF TEXAS AT DALLAS
(U004080 001); \$54,629

UNIV OF TEXAS AT EL PASO
(U003767 002); \$18,543

UNIV OF TEXAS SYSTEM OFFICE
(U003764 002); \$39,577

UNIVERSITY OF HOUSTON
(U003768 002); \$32,205

UNIVERSITY OF ST THOMAS
(U003763 002); \$4,185

WEST TEXAS STATE UNIVERSITY
(U004081 001); \$8,502

UTAH

BRIGHAM YOUNG UNIVERSITY
(U003769 002); \$17,682

UNIVERSITY OF UTAH
(U003769 002); \$73,641

UTAH STATE UNIVERSITY
(U003770 002); \$58,117

WEBER STATE COLLEGE
(U003771 002); \$2,653

VERMONT

MIDDLEBURY COLLEGE
(U001143); \$2,992

TRINITY COLLEGE
(U001148); \$10,027

UNIVERSITY OF VERMONT
(U003774 002); \$29,672

WINDHAM COLLEGE
(U003773 002); \$5,859

VIRGIN ISLANDS

COLLEGE OF THE VIRGIN ISLANDS
(U003851 002); \$10,550

VIRGINIA

COLLEGE OF WILLIAM AND MARY
(U003776 002); \$20,327

HAMPDEN-SYDNEY COLLEGE
(U003778 002); \$6,696

HAMPTON INSTITUTE
(U004083 001); \$10,316

HOLLINS COLLEGE
(U003779 002); \$2,917

MADISON COLLEGE
(U003780 001); \$1,674

MARY BALDWIN COLLEGE
(U004147); \$1,674

NORFOLK STATE COLLEGE
(U004085 001); \$2,678

OLD DOMINION UNIVERSITY
(U003781 002); \$17,129

RADFORD COLLEGE
(U004086 001); \$837

ROANOKE COLLEGE
(U003783 002); \$2,935

UNIVERSITY OF RICHMOND
(U004088 001); \$2,408

UNIVERSITY OF VIRGINIA
(U003784 002); \$51,663

VIRGINIA COMMONWEALTH UNIVERSITY
(U003785 002); \$21,716

VIRGINIA MILITARY INSTITUTE
(U003786 002); \$9,010

VIRGINIA POLYTECHNIC INSTITUTE
(U003787 002); \$53,916

VIRGINIA STATE COLLEGE
(U003788 002); \$9,048

WASHINGTON AND LEE UNIVERSITY
(U002789 002); \$2,935

WASHINGTON

EASTERN WASHINGTON STATE COLLEGE
(U004089 001); \$6,696

GRAYS HARBOR COLLEGE
(U003792 001); \$2,848

PACIFIC LUTHERAN UNIVERSITY
(U003793 002); \$5,859

SEATTLE COMMUNITY COLLEGE
(U004090 001); \$10,902

SEATTLE UNIVERSITY
(U003793 002); \$4,185

UNIVERSITY OF PUGET SOUND
(U003796 001); \$11,103

UNIVERSITY OF WASHINGTON
(U003797 002); \$28,500

WALLA WALLA COLLEGE
(U004091 001); \$1,674

WASHINGTON STATE UNIVERSITY
(U003798 002); \$44,851

WESTERN WASHINGTON STATE COLLEGE
(U003799 002); \$10,199

WHITWORTH COLLEGE
(U004142); \$1,674

WEST VIRGINIA

BETHANY COLLEGE
(U004149); \$7,533

MARSHALL UNIVERSITY
(U003803 001); \$2,841

WEST VIRGINIA INSTITUTE OF TECHNOLOGY
(U003805 002); \$19,106

WEST VIRGINIA UNIVERSITY
(U003806 002); \$45,728

WHEELING COLLEGE
(U003807 002); \$5,859

WISCONSIN

BELOIT COLLEGE
(U004150); \$5,389

CARTHAGE COLLEGE
(U004151); \$1,674

HOLY FAMILY COLLEGE
(U004152); \$1,674

LAWRENCE UNIVERSITY
(U003811 001); \$2,616

MARQUETTE UNIVERSITY
(U003812 002); \$15,171

MEDICAL COLLEGE OF WISCONSIN
(U004153); \$2,992

UNIVERSITY OF WISCONSIN SYSTEM OFFICE
(U003816 002); \$1,674

UNIVERSITY OF WISCONSIN, GREEN BAY
(U004084 001); \$1,674

UNIVERSITY OF WISCONSIN, MADISON

: (U003817 002); \$83,572

UNIVERSITY OF WISCONSIN, MILWAUKEE

: (U003818 002); \$14,886

UNIVERSITY OF WISCONSIN, PARKSIDE

: (U001151); \$8,821

VITERBO COLLEGE

: (U001153); \$1,874

WISCONSIN STATE UNIVERSITY, OSHKOSH

: (U003820 002); \$5,022

WISCONSIN STATE UNIVERSITY, PLATTEVILLE

: (U003821 001); \$1,874

WISCONSIN STATE UNIVERSITY, STEVENS POINT

: (U003822 002); \$2,427

WYOMING

UNIVERSITY OF WYOMING

: (U003827 002); \$36,219

UNIVERSITY SCIENCE DEVELOPMENT PROGRAM

FLORIDA

FLORIDA STATE UNIVERSITY

MARSHALL, J STANLEY; USD SUPPLEMENTARY PROPOSAL-FLORIDA STATE UNIVERSITY (U002618 001); 24 MONTHS \$1,200,000

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

RYAN, JOHN W; USD SUPPLEMENTARY PROPOSAL-INDIANA UNIVERSITY, BLOOMINGTON (U002003 002); 24 MONTHS \$1,470,000

PURDUE UNIVERSITY

HANSEN, ARTHUR G; USD SUPPLEMENTARY PROPOSAL-PURDUE UNIVERSITY (U001388 001); 24 MONTHS \$300,000

MICHIGAN

MICHIGAN STATE UNIVERSITY

WHARTON, CLIFTON R; USD SUPPLEMENTARY PROPOSAL-MICHIGAN STATE UNIVERSITY (U002618 002); 24 MONTHS \$1,180,000

NEW YORK

NEW YORK UNIVERSITY

HESTER, JAMES M; USD SUPPLEMENTARY PROPOSAL-NEW YORK UNIVERSITY (U001388 002); 24 MONTHS \$1,600,000

NORTH CAROLINA

DUKE UNIVERSITY

SANFORD, TERRY; USD SUPPLEMENTARY PROPOSAL-DUKE UNIVERSITY (U002018 001); 24 MONTHS \$650,000

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

SCHATZ, EDWARD R; USD SUPPLEMENTARY PROPOSAL-CARNEGIE-MELLON UNIVERSITY (U002036 001); 22 MONTHS \$450,000

UNIVERSITY OF PITTSBURGH

POSVAR, WESLEY W; USD SUPPLEMENTARY PROPOSAL-UNIVERSITY OF PITTSBURGH (U003181 001); 18 MONTHS \$200,000

TENNESSEE

VANDERBILT UNIVERSITY

HEARD, ALEXANDER; USD SUPPLEMENTARY PROPOSAL-VANDERBILT UNIVERSITY (U002037 001); 24 MONTHS \$1,350,000

VIRGINIA

APPLIED DATA RESEARCH INC-PRINCETON-APPLIED DATA RESEARCH-WASHINGTON

HOLMBURG, DALE; REPORTING SYSTEM ON THE FINANCIAL AND PERSONNEL STATUS OF NSF INSTITUTIONAL GRANTEES (C683001); 2 MONTHS \$3,475

COMPUTING ACTIVITIES

COMPUTER SCIENCE AND ENGINEERING

ARIZONA

VAN NORTON, ROGER; OTHER PROGRAM AWARDS (01AWDS*); 12 MONTHS \$38,200

CALIFORNIA

CLAREMONT COLLEGES SYSTEM OFFICE

MCCORMICK, STEPHEN F; A NUMERICAL INVESTIGATION OF ITERATIVE METHODS FOR THE SOLUTION OF THE LINEAR EIGENVALUE PROBLEM (J031727); 24 MONTHS \$31,300

STANFORD RESEARCH INSTITUTE

KAUTZ, W H; SURVEY OF SOVIET SWITCHING AND AUTOMATA THEORY (J031843); 12 MONTHS \$38,000

GREEN, M W; A SYSTEM CONCEPT FOR THE PRODUCTION OF RUGGED COMPUTER PROGRAMS (J032218); 24 MONTHS \$198,000

STANFORD UNIVERSITY

FELDMAN, JEROME A; GRAMMATICAL COMPLEXITY AND INFERENCE (J000776); 24 MONTHS \$181,000

HERRIOT, JOHN G, AND FORSYTHE, GEORGE E; NUMERICAL ANALYSIS (J028988 X00); 12 MONTHS \$57,300

FORSYTHE, GEORGE E, AND HERRIOT, JOHN G; NUMERICAL ANALYSIS (J028988 X01); 12 MONTHS \$68,500

DANTZIG, GEORGE B; MATHEMATICAL PROGRAMMING LANGUAGE (J030308 X00); 12 MONTHS \$40,800

HILLIER, FREDERICK S; ALGORITHMS FOR INTEGER LINEAR AND NONLINEAR PROGRAMMING (J031541); 24 MONTHS \$61,700

FLOYD, ROBERT W; MINIMAL ALGORITHMS, PROGRAMMING LANGUAGES, AND INTERACTIVE PROGRAMMING (J033170 X00); 12 MONTHS \$78,200

UNIVERSITY OF CALIFORNIA, BERKELEY

HARRISON, MICHAEL A, AND KARP, RICHARD M; THEORY OF COMPUTATION (J00171 002); 24 MONTHS \$152,900

HARRISON, MICHAEL A, AND KARP, RICHARD M; THEORY OF COMPUTATION (J00171 003); 12,000

MAURER, W D; STUDENT ORIENTED RESEARCH IN PROGRAM VERIFICATION (J031812); 24 MONTHS \$160,000

FERRARI, D, AND GILL, A; THEORY OF DATA STRUCTURES (J031734); 24 MONTHS \$49,100

GRAHAM, MARTIN; COMPUTER SYSTEMS RESEARCH (J031722); 18 MONTHS \$61,300

MORRIS, JAMES H JR; PROGRAMMING LANGUAGES (J033144 X00); 12 MONTHS \$72,400

UNIVERSITY OF CALIFORNIA, LOS ANGELES

ESTRIN, GERALD; MODELING AND MEASUREMENT OF COMPUTER SYSTEMS (J000809 001); 12 MONTHS \$184,500

AVIZIENIS, ALGIRDAS; FAULT-TOLERANT COMPUTING (J033007 X00); 12 MONTHS \$113,900

UNIVERSITY OF CALIFORNIA, RIVERSIDE

CHALMERS, B L; REGIONAL CONFERENCE IN APPROXIMATION THEORY (J033210); 12 MONTHS \$8,600

UNIVERSITY OF CALIFORNIA, SAN DIEGO

SAVITCH, WALTER J; ANALYSIS OF NONDETERMINISTIC ALGORITHMS (J027178 001); 18 MONTHS \$23,100

BURKHARD, WALTER A; SOME FILE STRUCTURING AND SEARCHING PROBLEMS (J028553); 18 MONTHS \$16,000

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

PRESSER, LEON, AND WOOD, ROGER C; ON-LINE TRANSLATOR WRITING SYSTEM (J031949); 24 MONTHS \$75,000

COLORADO

UNIVERSITY OF COLORADO

WAITE, WILLIAM M; PORTABLE PROGRAMMING SYSTEMS (J024171); 24 MONTHS \$97,600

CONNECTICUT

UNIVERSITY OF CONNECTICUT

SHOLL, HOWARD A; MICROPROGRAMMED MEMORY APPLICATION TO LANGUAGE PROCESSING TASKS (J028700); 24 MONTHS \$64,800

HAWAII

UNIVERSITY OF HAWAII

PAGER, DAVID, AND PETERSON, W WESLEY; A THEORETICAL AND PRACTICAL STUDY OF PROGRAMMING EFFICIENCY (J000396 001); 24 MONTHS \$145,100

WATANABE, M S; WORKSHOP ON POSSIBILITIES AND LIMITATIONS OF ARTIFICIAL INTELLIGENCE (J029190); 12 MONTHS \$2,560

ILLINOIS

NORTHWESTERN UNIVERSITY

HENSCHEN, LAWRENCE J; RESEARCH INITIATION - HIGHER-ORDER THEOREM-PROVING USING N-SORTED LOGIC (J032717); 18 MONTHS \$16,000

UNIVERSITY OF CHICAGO

DALEY, ROBERT P, AND GOLDSTINE, JONATHAN; RESEARCH IN LANGUAGES AND COMPLEXITY (J031220); 24 MONTHS \$60,100

ASHENHURST, ROBERT L; *DEVELOPMENT OF A MINICOMPUTER INTERFACING SUPPORT SYSTEM* (J03304 X00*); 12 MONTHS \$219,800

UNIVERSITY OF ILLINOIS AT URBANA

PHILLIPS, J R; *COMPUTER LANGUAGES FOR MATHEMATICS AND NUMERICAL ANALYSIS* (J000422 001); 24 MONTHS \$64,200

MUROGA, SABURO; *LOGIC NETWORK DESIGN BY INTEGER PROGRAMMING* (J000303 001); 24 MONTHS \$65,900

NIEVERGELT, JURG, AND REINGOLD, EDWARD M; *COMPUTATIONAL ASPECTS OF COMBINATORIAL ALGORITHMS* (J031229); 24 MONTHS \$116,300

BITZER, D L, JOHNSON, R L, AND CHIEN, R T; *PLASMA DISPLAY TECHNIQUE APPLICATIONS* (J031763); 24 MONTHS \$124,600

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

PROSSER, FRANKLIN; *REGIONAL CONFERENCE IN COMPUTER SCIENCE* (J033611); 12 MONTHS \$10,000

PURDUE UNIVERSITY

BAYER, RUDOLF, HALSTEAD, MAURICE, NUNAMAKER, JAY, SCHNEIDER, VICTOR, AND SHEN, VINCENT; *INVERSE COMPILATION STUDIES* (J031578); 24 MONTHS \$217,200

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

STEWART, ROBERT M, AND ZINGQ, ROY J; *TIME-SHARED COMPUTER SYSTEMS RESEARCH* (J033097 X00); 12 MONTHS \$142,400

UNIVERSITY OF IOWA

KUKHOPADHYAY, AMAR; *CELLULAR LOGIC ARRAYS, MACHINES AND COMPUTATIONS* (J000783 001); 24 MONTHS \$89,300

ALTON, DONALD A; *DIVERSITY OF SPEED-UPS AND OPTIMAL PROGRAMS IN COMPUTATIONAL COMPLEXITY* (J031683); 24 MONTHS \$11,800

MARYLAND

UNIVERSITY OF MARYLAND, COLLEGE PARK

MINKER, JACK; *MECHANISMS FOR AUTOMATICALLY PERFORMING INFERENCE* (J031456); 24 MONTHS \$73,300

DEUTSCH, EDWARD S, AND ROSENFELD; *PICTURE DESCRIPTION* (J032858 X00); 12 MONTHS \$116,700

CHU, YAOSHAN; *LANGUAGE-DIRECTED COMPUTER SYSTEMS* (J033019); 24 MONTHS \$155,900

MASSACHUSETTS

BRANDEIS UNIVERSITY

BUCHSBAUM, DAVID A; *COMPUTER APPLICATIONS IN ALGEBRA AND TOPOLOGY* (P031503*); 12 MONTHS \$9,900

HARVARD UNIVERSITY

LEWIS, FORBES D; *ABSTRACT COMPUTATIONAL COMPLEXITY* (J030078); 15 MONTHS \$15,000

BOOK, RONALD V; *RESEARCH ON THEORY OF COMPUTING- FORMAL LANGUAGE THEORY* (J030109); 20 MONTHS \$32,300

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

FREDKIN, EDWARD; *FUNDAMENTAL RESEARCH IN COMPUTER SCIENCE* (J031671); 24 MONTHS \$850,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

FOSTER, CAXTON C; *MACHINE LANGUAGE UTILIZATION AND OPTIMIZATION* (J031011); 24 MONTHS \$50,300

EHRRICH, ROGER W; *CONTEXTUAL RECOGNITION OF HANDWRITTEN WORDS* (J031775); 24 MONTHS \$29,600

MICHIGAN

UNIVERSITY OF MICHIGAN

BURKS, ARTHUR W, AND HOLLAND, JOHN H; *FORMAL MODELING AND SIMULATION OF NATURAL SYSTEMS* (J029989 X00); 12 MONTHS \$130,000

REITMAN, WALTER; *NATURAL LANGUAGE COMMUNICATION IN A PERSONAL INFORMATION RETRIEVAL SYSTEM* (J031339 X00); 12 MONTHS \$43,600

MINNESOTA

UNIVERSITY OF MINNESOTA

KAIN, R Y; *COMPUTER MEMORY SPACE MANAGEMENT* (J032504); 24 MONTHS \$69,000

UNIVERSITY OF MINNESOTA-INSTITUTE OF TECHNOLOGY

ROSEN, J B; *INTERACTIVE GRAPHICAL METHODS FOR GENERALIZED APPROXIMATION AND OPTIMIZATION PROBLEMS* (J032557); 24 MONTHS \$152,000

MISSOURI

UNIVERSITY OF MISSOURI, ROLLA

STIGALL, PAUL D; *DYNAMIC MICROPROGRAMMING- A WORKABLE MODEL AND SOFTWARE IMPLICATIONS* (J032398); 24 MONTHS \$49,900

WASHINGTON UNIVERSITY

STRAUSS, JON C, AND FRANKLIN, MARK A; *COMPUTER SYSTEM PERFORMANCE EVALUATION* (J033764 X00); 12 MONTHS \$91,700

ZWART, PHILIP B; *DATA FITTING WITH PIECEWISE POLYNOMIAL SURFACES* (J031470); 24 MONTHS \$58,100

NEW JERSEY

AMERICAN FEDERATION OF INFO PROCESSING SOC

GILCHRIST, BRUCE; *SUPPORT OF TRAVEL BY U.S. PARTICIPANTS IN THE U.S.-JAPAN COMPUTER CONFERENCE TO BE HELD IN TOKYO, JAPAN, OCTOBER 1974* (J033297); 12 MONTHS \$24,100

PRINCETON UNIVERSITY

DENNING, PETER J, AND KELLER, ROBERT M; *MODELS FOR PROGRAM BEHAVIOR AND STRUCTURE* (J030189); 24 MONTHS \$102,700

NEW MEXICO

LOS ALAMOS SCIENTIFIC LABORATORY

MORRIS, J B, AND WELLS, K B; *MACHINE INDEPENDENT DOCUMENTATION OF AN ADVANCED LANGUAGE* (AG000383); 24 MONTHS \$93,800

NEW YORK

ASSOCIATION FOR COMPUTING MACHINERY

RECHARD, OTTIS W; *COMPUTER SCIENCE COURSE AND CURRICULUM DEVELOPMENT AT FOUR YEAR COLLEGES* (J001177 001); \$6,000

COLUMBIA UNIVERSITY

EILENBERG, SAMUEL; *AUTOMATA, LANGUAGES, MACHINES, AND COMPLEXITY* (J031738); 24 MONTHS \$118,500

CORNELL UNIVERSITY

CONSTABLE, ROBERT L; *COMPUTATIONAL COMPLEXITY AND THE THEORY OF PROGRAMMING LANGUAGES* (J000579 001); 24 MONTHS \$79,300

HOROWITZ, ELLIS; *INVESTIGATIONS OF SOME ARITHMETIC AND ALGEBRAIC ALGORITHMS* (J031499); 24 MONTHS \$77,500

HARTMANIS, JURIS; *AUTOMATA AND COMPUTATIONAL COMPLEXITY* (J033171 X00); 12 MONTHS \$54,700

NEW YORK UNIVERSITY

GOLDSTEIN, MAX; *DEVELOPMENT OF A RESEARCH PROGRAM IN COMPUTER SCIENCES* (J001202 X01); 12 MONTHS \$226,000

ABRAHAMS, PAUL W; *PARTICIPATION IN THE COMPOSITE LANGUAGE DEVELOPMENT GROUP* (J031134); 24 MONTHS \$3,900

DAVIS, MARTIN; *COMPUTATION AND LOGICAL PROOF PROCEDURE* (J031463 X00); 12 MONTHS \$53,900

STATE UNIVERSITY AT BUFFALO

FINDLER, NICHOLAS V; *ASSOCIATIVE MEMORY, PARALLEL PROCESSING LANGUAGE, AMPPL-II* (J000638 001); 24 MONTHS \$150,800

RALSTON, ANTHONY; *RESEARCH IN APPROXIMATION THEORY* (J029987); 12 MONTHS \$24,800

STATE UNIVERSITY AT STONY BROOK

SMITH, DAVID R; *AUTOMATED LOGIC SPECIFICATION AND DESIGN USING A BEHAVIORAL LANGUAGE DERIVED FROM REGULAR EXPRESSIONS* (J031356); 24 MONTHS \$54,100

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

STAUDHAMMER, JOHN; *COLOR COMPUTER GRAPHICS* (J031616); 36 MONTHS \$204,900

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

BROOKS, FREDERICK P JR; *RESEARCH ON COMPUTER DISPLAYS - VISUAL AND KINESTHETIC* (J031687); 36 MONTHS \$325,000

NORTH DAKOTA

TARESKEI, VAL G; *OTHER PROGRAM AWARDS (OIAWDS)*; 16 MONTHS \$33,150

OHIO

OHIO STATE UNIVERSITY

CSURI, CHARLES A; *SOFTWARE AND HARDWARE REQUIREMENTS FOR REAL-TIME FILM ANIMATION* (J000204 001); 24 MONTHS \$159,200

BIERMANN, ALAN; *SELF-PROGRAMMING SYSTEMS- A NEW APPROACH* (J031739 X00); 12 MONTHS \$25,400

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

ANDREWS, PETER B, AND LOVELAND, DONALD W; *PROOF PROCEDURES IN PREDICATE CALCULUS AND TYPE THEORY* (J029457 X01); 12 MONTHS \$42,800

PARNAS, D L; *A TOOL FOR CONTROLLING THE COMPLEXITY OF SOFTWARE SYSTEMS* (J030187); 12 MONTHS \$20,500

TRAUB, J F; *ITERATION ALGORITHMS- THEORY AND APPLICATIONS* (J031111); 12 MONTHS \$27,000

PARNAS, D L; *SYSTEM FAMILY CONCEPT (J031139)*; 24 MONTHS \$73,000
 SIEWIOREK, DAN; *REGISTER TRANSFER LEVEL COMPUTER SYSTEMS DESIGN (J032738 X00)*; 12 MONTHS \$66,900

SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS

VARGA, RICHARD S; *FIFTH SYMPOSIUM ON NUMERICAL ALGEBRA (P033298*)*; 12 MONTHS \$15,100

UNIVERSITY OF PENNSYLVANIA

KRIPPENDORFF, KLAUS; *COMPUTER PROGRAMS FOR MULTIVARIATE CLASSIFICATION IN CONTENT ANALYSIS (J030330)*; 24 MONTHS \$54,900

RUBINOFF, MORRIS; *INTERACTIVE GRAPHICS FOR SOLID OBJECTS (J031181)*; 24 MONTHS \$65,000

UNIVERSITY OF PITTSBURGH

HALL, CHARLES A; *REGIONAL CONFERENCE ON THE NUMERICAL SOLUTION OF NONLINEAR ALGEBRAIC SYSTEMS (J031812)*; 12 MONTHS \$11,700

RHODE ISLAND

BROWN UNIVERSITY

VAN DAM, ANDRIES; *COMPUTER GRAPHICS AND ITS APPLICATIONS (J028401 X01)*; 12 MONTHS \$99,600

FREIBERGER, WALTER F, AND GRENANDER, ULF; *PATTERN ANALYSIS AND RECOGNITION (J031067 X00)*; 12 MONTHS \$86,100

SAVAGE, JOHN E; *THE PERFORMANCE OF COMPUTING SYSTEMS AND COMPILER ANALYSIS (J031270)*; 24 MONTHS \$37,700

TENNESSEE

VANDERBILT UNIVERSITY

WAGNER, ROBERT A; *FORMAL LANGUAGE ERROR CORRECTORS (J032014)*; 24 MONTHS \$38,800

TEXAS

RICE UNIVERSITY

JUMP, J ROBERT; *A STUDY OF PROGRAMMABLE CELLULAR ARRAY MODELS AND APPLICATIONS (J000730 001)*; 24 MONTHS \$37,400

MINNICK, ROBERT C; *DATA PRE-PROCESSING IN INTERACTIVE COMPUTER SYSTEMS (J031019)*; 24 MONTHS \$110,400

KENNEDY, KENNETH W; *ADVANCED PROGRAMMING LANGUAGE DESIGN ON A TAGGED COMPUTER (J032237)*; 36 MONTHS \$117,000

UNIV OF TEXAS AT AUSTIN

PRATT, TERENCE W; *A FORMAL THEORY OF PROGRAMMING LANGUAGE DEFINITION (J000718 001)*; 24 MONTHS \$34,200

YEH, RAYMOND T; *STUDIES ON MATHEMATICAL FOUNDATIONS OF SOFT ALGEBRA (J031522)*; 24 MONTHS \$31,600

BLEDSE, WOODROW W; *RESEARCH IN AUTOMATIC THEOREM PROVING (J032269)*; 24 MONTHS \$83,900

WELCH, TERRY A; *RESEARCH INITIATION - ANALYSIS OF COMPUTER FILE SEARCH TECHNIQUES (J032113)*; 18 MONTHS \$16,900

SIKLOSSY, LAURENT; *EXPLORATIONS IN PROBLEM SOLVING, THEOREM PROVING, THEOREM DISCOVERY AND ROBOT GUIDANCE (J031738)*; 24 MONTHS \$39,300

AGGARWAL, J K; *REAL-TIME VISUAL RECOGNITION BY DIGITAL COMPUTER (K032585 X00*)*; 12 MONTHS \$12,500

UTAH

UNIVERSITY OF UTAH

HEARN, ANTHONY C; *COMPUTER SOLUTION OF SYMBOLIC PROBLEMS IN THEORETICAL PHYSICS (J031181)*; 24 MONTHS \$155,800

VIRGINIA

UNIVERSITY OF VIRGINIA

PFALTZ, JOHN L; *THE USE OF GRAPH STRUCTURES TO REPRESENT COMPUTER INFORMATION (J031826)*; 24 MONTHS \$69,500

VIRGINIA POLYTECHNIC INSTITUTE

GRAY, FESTUS G; *RESEARCH INITIATION - THEORETICAL INVESTIGATION OF DIAGNOSABLE LOGIC SYSTEMS (J032713)*; 18 MONTHS \$13,700

WASHINGTON

UNIVERSITY OF WASHINGTON

RITCHIE, ROBERT W, AND LADNER, RICHARD; *COMPUTATIONAL COMPLEXITY AND DEGREES OF DIFFICULTY (J031745 X00)*; 12 MONTHS \$29,700

WASHINGTON STATE UNIVERSITY

BENSON, DAVID B; *FORMAL SYNTAX, FORMAL SEMANTICS AND NATURAL LANGUAGE COMPILERS (J001171 001)*; 24 MONTHS \$67,700

PHILLIPS, JAMES L; *NUMERICAL SOLUTION OF LINEAR INTEGRAL EQUATIONS (J031887)*; 24 MONTHS \$30,100

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

HALTON, JOHN H; *STUDIES IN THE THEORY AND TECHNIQUES OF THE MONTE CARLO METHOD (J029386 X00)*; 12 MONTHS \$48,000

COLLINS, GEORGE E, AND CAVINESS, B F; *SYMBOLIC AND ALGEBRAIC CALCULATION (J030183 X00)*; 12 MONTHS \$71,500

LANDWEBER, LAWRENCE H; *FINITE-AUTOMATA AND PREDICATE CALCULUS BASED FORMAL LANGUAGES (J031047)*; 24 MONTHS \$43,200

CRYSER, C W; *THE NUMERICAL ANALYSIS OF UNKNOWN BOUNDARY PROBLEMS (J032096)*; 12 MONTHS \$14,400

COMPUTER APPLICATIONS IN RESEARCH

ARIZONA

VAN NORTON, ROGER; *OTHER PROGRAM AWARDS (01AWDS*)*; 12 MONTHS \$1,900

CALIFORNIA

MORGAN, M GRANGER; *OTHER PROGRAM AWARDS (01AWDS)*; 24 MONTHS \$56,500

CALIFORNIA INSTITUTE OF TECHNOLOGY

THOMPSON, FREDERICK B; *THE IMPLEMENTATION OF AN ADVANCED COMPUTER SYSTEM FOR SOCIAL SCIENCE RESEARCH (J031573*)*; 9 MONTHS \$25,000

LAWRENCE RADIATION LABORATORY

FERNBACH, S; *SEMINAR ON FUTURE OF COMPUTING (AG00389)*; 12 MONTHS \$13,000

RAND CORPORATION

BOEHM, BARRY W; *STUDIES IN THE PSYCHOLOGY OF MAN-COMPUTER PROBLEM-SOLVING (J031759)*; 24 MONTHS \$147,100

UNIVERSITY OF CALIFORNIA, BERKELEY

SANGREN, WARD C; *IMPACT OF NETWORKING ON UNIVERSITY COMPUTING (J032172)*; 11 MONTHS \$38,300

KAISER, HENRY F; *COMPUTER SOFTWARE FOR FACTOR ANALYSIS (J031748)*; 36 MONTHS \$74,400

APPLEYARD, DONALD, AND CRAIK, KENNETH; *ENVIRONMENTAL DISPOSITIONS AND THE SIMULATION OF ENVIRONMENTS (S030984 X00*)*; 12 MONTHS \$73,280

BALDERSTON, F E; *OPERATION OF A MANAGEMENT SCIENCE RESEARCH FACILITY (S032138*)*; 12 MONTHS \$50,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

VIDAL, J J; *BRAIN COMPUTER INTERFACE (J032221)*; 12 MONTHS \$68,900

UNIVERSITY OF CALIFORNIA, SAN DIEGO

NORMAN, DONALD A; *COMPUTER SIMULATION OF HUMAN SEMANTIC MEMORY AND COGNITION (B032235 X00*)*; 12 MONTHS \$50,000

UNIVERSITY OF SOUTHERN CALIFORNIA

KAPRIELIAN, ZOHRA B, CHRISTY, ROBERT F, AND SAXON, DAVID S; *FEASIBILITY STUDY OF COMPUTER RESOURCES SHARING - CALTECH, UCLA, USC (J032248)*; 18 MONTHS \$114,200

UNIVERSITY OF CALIFORNIA, LOS ANGELES-SCHOOL OF MEDICINE

DIXON, W J; *A CONFERENCE ON STATISTICAL COMPUTING TO BE HELD IN LOS ANGELES, CALIFORNIA, SEPTEMBER 1971 (J029844 001)*; 21 MONTHS \$22,400

COLORADO

UNIVERSITY OF COLORADO

FOSDICK, LLOYD D; *COLLABORATIVE RESEARCH IN PLANNING AN APPROACH TO TESTING AND DISSEMINATION OF COMPUTER PROGRAMS FOR RESEARCH AND DEVELOPMENT (J031681)*; 12 MONTHS \$26,900

FOSDICK, LLOYD D; *MEETING ON VALIDATION AND DISTRIBUTION OF COMPUTER SOFTWARE (J032760)*; 6 MONTHS \$8,400

SCHIFFMAN, ROBERT L; *COLLABORATIVE RESEARCH - COMPUTER BASED TECHNOLOGY TRANSFER IN CIVIL ENGINEERING (K032971 X00*)*; 12 MONTHS \$73,600

UNIVERSITY OF DENVER-DENVER RESEARCH INSTITUTE

DORN, WILLIAM S, AND ROBBINS, MARTIN D; *ALTERNATIVE APPROACHES TO THE MANAGEMENT AND FINANCING OF UNIVERSITY COMPUTING CENTERS (J032385)*; 12 MONTHS \$168,400

DISTRICT OF COLUMBIA

PUBLIC TECHNOLOGY INC

HAYLICK, J ROBERT; *TO DESIGN A LOCAL GOVERNMENT SOFTWARE CLEARINGHOUSE (J033226*)*; 10 MONTHS \$72,300

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL
PAUL, MARTIN A; *TASK ORDER FOR A STUDY OF A NATIONAL LABORATORY FOR THEORETICAL CHEMISTRY (C910281*)*; 12 MONTHS \$26,000

ILLINOIS

ARGONNE NATIONAL LABORATORY

COWELL, WAYNE R; *PLANNING AN APPROACH TO TESTING AND DISSEMINATION OF COMPUTER PROGRAMS FOR RESEARCH AND DEVELOPMENT (AG00383)*; 12 MONTHS \$13,800

UNIVERSITY OF CHICAGO

ASHENHURST, ROBERT L; *DEVELOPMENT OF A MINICOMPUTER INTERFACING SUPPORT SYSTEM (J033084 X00*)*; 12 MONTHS \$237,600

INDIANA

PURDUE UNIVERSITY

HARRINGTON, RODNEY B, AND GIESE, RONALD L; *RESEARCH COMPUTER TECHNIQUES IN COMPLEX LABORATORY ENVIRONMENTS (J042433 X01)*; 12 MONTHS \$151,600

ROSEN, SAUL; *SOFTWARE FOR STATISTICAL ANALYSIS (J030289)*; 24 MONTHS \$158,000

KANSAS

UNIVERSITY OF KANSAS

TEMPLETON, ARCH, KELLY, GERRY L, ROBINSON, RALPH, AND RILEY, RICHARD; *A MEDICAL IMAGE PROCESSING, ENHANCEMENT, AND DISPLAY SYSTEM (J042776 001)*; \$1,600

GILLES, PAUL W, AND CULVAHOUSE, JACK W; *COMPUTER-ASSISTED AND CONTROLLED EXPERIMENTS IN CHEMICAL PHYSICS (J042213)*; 24 MONTHS \$413,700

MARYLAND

FEDERATION OF AMER SOCIETIES FOR EXPER BIOLOGY

GRANT, ROBERT H; *CONFERENCE ON THE COMPUTER AS A RESEARCH TOOL IN THE LIFE SCIENCES (J0435035)*; 24 MONTHS \$40,000

NATIONAL BUREAU OF STANDARDS

DAVIS, RUTH M; *DEVELOPMENT OF PLANS FOR A NATIONAL SCIENCE NETWORK (AG00350)*; 6 MONTHS \$111,900

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

GROSSER, LEON B, AND NEGROPONTE, NICHOLAS; *COMPUTER AIDS TO PARTICIPATORY ARCHITECTURE (J030114)*; 24 MONTHS \$60,500

MISSOURI

ST LOUIS UNIVERSITY

TEPAS, DONALD F; *CONFERENCE ON THE USE OF ON-LINE COMPUTERS IN PSYCHOLOGY (J040837)*; 12 MONTHS \$12,500

NEW JERSEY

PRINCETON UNIVERSITY

DAWSON, JOHN M; *COMPUTER PLASMA PHYSICS WITH POSSIBLE EXTENSIONS (J033098 X00)*; 12 MONTHS \$90,000

RUTGERS UNIVERSITY

CORENSTEIN, DANIEL; *FINITE GROUP THEORY (P032319 X00*)*; 12 MONTHS \$11,700

STEVENS INSTITUTE OF TECHNOLOGY

ROSEN, BERNARD; *AUTOMATION OF ANALYTICAL CALCULATIONS IN PHYSICS (J042460)*; 12 MONTHS \$20,000

NEW YORK

ASSOCIATION FOR COMPUTING MACHINERY

ADAMS, JAMES M; *FOUR WORKSHOPS ON MAJOR TECHNICAL ISSUES FACING THE COMPUTING PROFESSION (J042470)*; 12 MONTHS \$20,000

BROOKHAVEN LABORATORY

HAMILTON, WALTER C; *COLLABORATIVE PROJECT IN THE DEVELOPMENT OF A CRYSTALLOGRAPHIC COMPUTING NETWORK WITH THREE-DIMENSIONAL DISPLAY CAPABILITY (AG00370)*; 12 MONTHS \$274,000

COLUMBIA UNIVERSITY

PRENDERGAST, KEVIN H; *DYNAMICS OF GALAXIES (P027765 001*)*; 12 MONTHS \$10,000

CORNELL UNIVERSITY

SEARLE, SHAYLE R; *VARIANCE COMPONENT ESTIMATION (J042746)*; 24 MONTHS \$89,900

HUNTER COLLEGE

BEVERIDGE, DAVID L; *REMOTE TERMINAL COMPUTER GRAPHICS (J042289)*; 24 MONTHS \$33,500

INSTITUTE OF ELECTRICAL & ELECTRONIC ENGINEERS INC

FINK, DONALD G; *1978 INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATIONS (J033333)*; 12 MONTHS \$31,100

QUEENS COLLEGE

BESHERS, JAMES; *A UNIVERSITY BASED URBAN INFORMATION REPORT FOR NEW YORK CITY (J033203)*; 12 MONTHS \$64,800

UNIVERSITY OF ROCHESTER

IKER, HOWARD P; *THE RECOGNITION AND ANALYSIS OF CONTENT BY COMPUTER (S042217)*; 24 MONTHS \$10,000

NORTH CAROLINA

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

HETZEL, WILLIAM C; *MAN MACHINE SYSTEM FOR TEST DATA GENERATION (J030410)*; 24 MONTHS \$98,700

OREGON

UNIVERSITY OF OREGON - EUGENE

HIGGINS, RICHARD J; *COMPUTER ASSISTED EXPERIMENTATION IN SOLID STATE PHYSICS (J042786)*; 12 MONTHS \$50,700

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

EASTMAN, CHARLES M; *AUTOMATED SPACE PLANNING (J031180)*; 24 MONTHS \$60,000

REDDY, D R; *COMPUTER MODELS OF NEURAL NETWORKS (J032784)*; 24 MONTHS \$176,200

FENVES, STEVEN J; *COLLABORATIVE RESEARCH- COMPUTER BASED TECHNOLOGY TRANSFER IN CIVIL ENGINEERING (K032970 X00*)*; 12 MONTHS \$34,400

RHODE ISLAND

BROWN UNIVERSITY

WEINER, JEROME H; *NUMERICAL SOLUTION OF THE TIME-DEPENDENT SCHRODINGER EQUATION (J030103)*; 12 MONTHS \$65,000

TENNESSEE

UNIVERSITY OF TENNESSEE, KNOXVILLE-SPACE INSTITUTE

HELVEY, T CHARLES; *COMPUTER APPLICATIONS IN BIOMEDICAL INSTRUMENTATION (J032923)*; 12 MONTHS \$6,400

TEXAS

TEXAS A & M UNIVERSITY

MEYER, EDGAR F; *COLLABORATIVE PROJECT IN THE DEVELOPMENT OF A CRYSTALLOGRAPHIC COMPUTING NETWORK WITH THREE-DIMENSIONAL DISPLAY CAPABILITY (J033148 X00)*; 12 MONTHS \$111,100

UTAH

UNIVERSITY OF UTAH

HARRIS, FRANK E; *COMPUTER SOFTWARE DEVELOPMENT FOR THEORETICAL CHEMISTRY (J033010)*; 24 MONTHS \$186,500

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

WHITLOCK, H W; *ORGANIC CHEMISTRY BY COMPUTER (J032463)*; 24 MONTHS \$27,000

YENEZKY, RICHARD L; *REMOTE ACCESS LEXICOGRAPHIC SYSTEM (J042784)*; 24 MONTHS \$122,400

COMPUTER INNOVATION IN EDUCATION

CALIFORNIA

CLAREMONT COLLEGES SYSTEM OFFICE

WEINGARTEN, FRED W; *A FOURTH CONFERENCE ON COMPUTERS IN THE UNDERGRADUATE CURRICULA (J033089)*; 18 MONTHS \$41,000

CLAREMONT GRADUATE SCHOOL

WEINGARTEN, FRED W; *CLAREMONT REGIONAL EDUCATIONAL NETWORK (J030353)*; 12 MONTHS \$34,100

STANFORD UNIVERSITY

SUPPE, PATRICK; *BASIC RESEARCH IN COMPUTER-ASSISTED INSTRUCTION (J000448 X00)*; 12 MONTHS \$385,000

UNIVERSITY OF CALIFORNIA, IRVINE

BORK, ALFRED M; *COMPUTER-BASED, INTERACTIVE GRAPHICS, IN TEACHING UNDERGRADUATE PHYSICS (J000896 001)*; 24 MONTHS \$182,000

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

HUSKEY, HARRY D; *DEVELOPMENT OF A SMALL SCALE TIME-SHARING SYSTEM AND GRAPHIC DISPLAY COMPLEX (J030436 X00)*; 12 MONTHS \$150,100

COLORADO

COLORADO STATE UNIVERSITY

HAYMAN, ROBERT W. AND LORD, WILLIAM; *COMPUTER MANAGED LEARNING. ADVANCEMENT TOWARD A STABLE EDUCATIONAL TECHNOLOGY (J030419)*; 12 MONTHS \$107,800

HAYMAN, ROBERT W. AND LORD, WILLIAM; *COMPUTER MANAGED LEARNING. ADVANCEMENT TOWARD A STABLE EDUCATIONAL TECHNOLOGY (J030419 001)*; 12 MONTHS \$2,000

DISTRICT OF COLUMBIA

DISTRICT OF COLUMBIA PUBLIC SCHOOLS

RICE, WILLIAM S; *A CURRICULUM DEVELOPMENT AND DEMONSTRATION PROJECT FOR ADP TRAINING IN THE ANACOSTIA PROJECT (J031179)*; 15 MONTHS \$129,200

DEPT. OF COMMERCE-DEPARTMENT OF COMMERCE

DAVIS, RUTH M; *COMMITTEES ON AUTOMATION OPPORTUNITIES IN THE SERVICE AREAS (AG00281*)*; 10 MONTHS \$50,000

FLORIDA

BETHUNE-COOKMAN COLLEGE

FOONAL, PREMSUKH; *FLORIDA REGIONAL COOPERATIVE COMPUTING ACTIVITY (J033304)*; 27 MONTHS \$11,000

EDWARD WATERS COLLEGE

GARRETT, LINDA; *FLORIDA REGIONAL COOPERATIVE COMPUTING ACTIVITY (J033301)*; 27 MONTHS \$12,900

FLORIDA JUNIOR COLLEGE

DEAN, DAVID B; *FLORIDA REGIONAL COOPERATIVE COMPUTING ACTIVITY (J033298)*; 27 MONTHS \$29,000

FLORIDA TECHNOLOGICAL UNIVERSITY

FALCONER, DAVID R; *FLORIDA REGIONAL COOPERATIVE COMPUTING ACTIVITY (J033303)*; 27 MONTHS \$18,400

JACKSONVILLE UNIVERSITY

GARDINER, ASA; *FLORIDA REGIONAL COOPERATIVE COMPUTING ACTIVITY (J033302)*; 27 MONTHS \$10,500

LAKE CITY COMMUNITY COLLEGE

ALTIERI, DONALD P; *FLORIDA REGIONAL COOPERATIVE COMPUTING ACTIVITY (J033297)*; 27 MONTHS \$196,600

SANTA FE JUNIOR COLLEGE

DEARN, DAVID B; *FLORIDA REGIONAL COOPERATIVE COMPUTING ACTIVITY (J033300)*; 27 MONTHS \$17,900

STETSON UNIVERSITY

MEDLIN, GENE W; *FLORIDA REGIONAL COOPERATIVE COMPUTING ACTIVITY (J033304)*; 27 MONTHS \$12,200

UNIVERSITY OF NORTH FLORIDA

SIMMONS, FRED H; *FLORIDA REGIONAL COOPERATIVE COMPUTING ACTIVITY (J033306)*; 27 MONTHS \$13,000

VALENCIA COMMUNITY COLLEGE

EDWARDS, LOUIS; *FLORIDA REGIONAL COOPERATIVE COMPUTING ACTIVITY (J033298)*; 27 MONTHS \$16,200

GEORGIA

PAINE COLLEGE

MCCAIN, THOMAS C; *EXPERIMENT IN THE DEVELOPMENT OF A REGIONAL COMPUTER CENTER (J001149 001)*; \$2,000

SOUTHERN REGIONAL EDUCATION BOARD

SWYER, VINCENT H. AND HAMBLIN, JOHN W; *CONTRACT FOR SURVEY AND ANALYSIS OF COMPUTING ACTIVITIES IN UNITED STATES HIGHER EDUCATION, TASK I-B-1 (C401000 001)*; 3 MONTHS \$3,380

HAMBLIN, HOHN W; *EXPERIMENT ON MINI-COMPUTERS (J001078 001)*; \$5,000

HAMBLIN, JOHN W; *1972 CONFERENCE ON COMPUTERS IN THE UNDERGRADUATE CURRICULA (J030916)*; 12 MONTHS \$44,700

HAMBLIN, JOHN W; *INTERNATIONAL WORKSHOP ON COMPUTER EDUCATION FOR TEACHERS IN SECONDARY EDUCATION IN CONJUNCTION WITH THE 1972 CONFERENCE ON COMPUTERS IN THE UNDERGRADUATE CURRICULA (J030916 001)*; 12 MONTHS \$20,000

HAWAII

UNIVERSITY OF HAWAII

ABRAMSON, NORMAN; *PACIFIC EDUCATIONAL COMPUTER NETWORK STUDY (J032200*)*; 24 MONTHS \$68,700

ILLINOIS

UNIVERSITY OF ILLINOIS AT URBANA

BITZER, DONALD L; *DEMONSTRATION AND EVALUATION OF THE PLATO IV COMPUTER-BASED EDUCATION SYSTEM (C123000)*; 48 MONTHS \$1,000,000

BITZER, DONALD L; *LARGE-SCALE COMPUTER-BASED EDUCATION EXPERIMENT (J03191 001)*; 6 MONTHS \$275,000

INDIANA

PURDUE UNIVERSITY

PERONE, SAM P; *INCORPORATION OF DIGITAL COMPUTER TECHNOLOGY INTO THE UNDERGRADUATE CHEMISTRY LABORATORY (J00048 001)*; 18 MONTHS \$55,900

IOWA

UNIVERSITY OF IOWA

BOYNTON, G R; *CURRICULUM DEVELOPMENT IN THE SOCIAL SCIENCES (J030117)*; 12 MONTHS \$96,000

WEGO, GERARD P; *AN EXPERIMENT IN THE TRANSPORTABILITY OF COMPUTER-BASED CURRICULUM MATERIALS (J031736)*; 12 MONTHS \$62,400

MASSACHUSETTS

BOLT BERANEK AND NEWMAN INC

FEURZEIG, WALLACE; *TECHNOLOGY FOR ANALYSIS OF STUDENT INTERACTIONS WITH COMPLEX PROGRAMS (C102000)*; 13 MONTHS \$103,585

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PAPERT, SEYMOUR; *COMPUTER-BASED CURRICULAR RESEARCH IN ELEMENTARY EDUCATION (J001019 003)*; 24 MONTHS \$301,500

KAPLOW, ROY; *A TEACHER-INTERACTIVE COMPUTER SYSTEM (TICS) (J030104 X00)*; 12 MONTHS \$73,500

NEW ENGLAND REGIONAL COMPUTING PROGRAM

MORSE, PHILIP M. AND POLLA, ROBERT A; *AN EXPERIMENT TO DETERMINE THE EDUCATIONAL SERVICES DEMANDED BY USERS OF A MULTI-COMPUTER NETWORK (J001131 001)*; 12 MONTHS \$60,000

MICHIGAN

UNIVERSITY OF MICHIGAN

TEICHROEW, DANIEL; *CURRICULUM DEVELOPMENT IN MANAGEMENT INFORMATION SYSTEMS EDUCATION IN COLLEGES AND UNIVERSITIES (J00051 001)*; 16 MONTHS \$3,000

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

WILKINS, CHARLES L; *DEVELOPMENT OF AN UNDERGRADUATE COURSE IN THE USE OF DIGITAL COMPUTERS WITH CHEMISTRY INSTRUMENTATION (J000411 001)*; 18 MONTHS \$43,600

NEW HAMPSHIRE

DARTMOUTH COLLEGE

KURTZ, THOMAS E; *AN EXPERIMENT IN THE TRANSPORTABILITY OF COMPUTER-BASED CURRICULUM MATERIALS (J011754)*; 12 MONTHS \$53,300

NEW JERSEY

EDUCATIONAL TESTING SERVICE

ANASTASIO, ERNEST J; *REVIEW AND EVALUATION OF TWO CAI PROJECTS (C731000)*; 63 MONTHS \$100,000

KATZ, MARTIN R; *VALIDATION OF A SYSTEM OF INTERACTIVE GUIDANCE IN A TWO-YEAR COLLEGE (J033200)*; 24 MONTHS \$100,900

NEW YORK

AGRICULTURAL AND TECH COLLEGE AT ALFRED

BURNS, LAWRENCE E; *NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J033143)*; 27 MONTHS \$21,900

AGRICULTURAL AND TECH COLLEGE AT DELHI

BRACH, RONALD C; *NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J033150)*; 27 MONTHS \$16,000

BROOME COMMUNITY COLLEGE

DOUGHERTY, EDWARD F; *NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J033146)*; 27 MONTHS \$4,900

COLLEGE AT CORTLAND

BANSE, ANDREW; *NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J033149)*; 27 MONTHS \$18,700

COLLEGE AT FREDONIA

BAYDALA, EDWARD T; *NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J033158)*; 27 MONTHS \$26,200

COLLEGE AT GENESEO

DEUTSCH, EDNA W; *NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J033154)*; 27 MONTHS \$29,100

COLLEGE AT OSWEGO

VAN DYK, OEBELE G; *NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J033157)*; 27 MONTHS \$26,500

COLLEGE AT PLATTSBURGH

SHEATS, GEORGE F; *NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J033152)*; 27 MONTHS \$25,600

COLLEGE AT POTSDAM

STILLMAN, ALAN H; NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J031133); 27 MONTHS \$28,700

COLUMBIA-GREENE COMMUNITY COLLEGE

POWERS, THOMAS J; NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J031137); 27 MONTHS \$18,500

COMMUNITY COLLEGE OF THE FINGER LAKES

HENDERSON, FREDERICK R; NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J031151); 27 MONTHS \$22,200

CORNING COMMUNITY COLLEGE

FRANK, DAVID C; NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J031143); 27 MONTHS \$22,900

FULTON-MONTGOMERY COMMUNITY COLLEGE

COLE, ROBERT C; NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J031153); 27 MONTHS \$20,600

JAMESTOWN COMMUNITY COLLEGE

PANZARELLA, MARION A; NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J031155); 27 MONTHS \$22,400

MARITIME COLLEGE

BOWMAN, RONALD C; NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J031156); 27 MONTHS \$25,000

STATE UNIVERSITY AT BINGHAMTON

ROBERTSON, ROBERT E; NEW YORK EDUCATIONAL COMPUTER CONSORTIUM (J031141); 27 MONTHS \$349,000

SYRACUSE UNIVERSITY

DAVIS, ROBERT B; A STUDY OF COMPUTER-BASE ELEMENTARY PROBLEM-SOLVING SKILLS IN MATHEMATICS USING A COMPUTER PROGRAMMING LANGUAGE (LOGO) (J031227); 12 MONTHS \$89,739

NORTH CAROLINA**NORTH CAROLINA BOARD OF HIGHER EDUCATION**

DENK, JOSEPH R; EXTENSION OF CURRICULUM DEVELOPMENT ACTIVITIES BY NCECS (J000714 000); 12 MONTHS \$69,700

BLUM, RONALD; AN EXPERIMENT IN THE TRANSPORTABILITY OF COMPUTER-BASED CURRICULUM MATERIALS (J031752); 12 MONTHS \$110,442

PARKER, LOUIS T; AN EXPERIMENT IN THE TRANSPORTABILITY OF COMPUTER-BASED CURRICULUM MATERIALS (J031753); 12 MONTHS \$59,500

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

CALINGAERT, PETER, AND BROOKS, FREDERICK P JR; A PROGRAM OF EXPERIMENTAL EXPLORATIONS IN COMPUTER-ASSISTED INSTRUCTION (J000735 001); 6 MONTHS \$63,400

OREGON**OREGON STATE UNIVERSITY**

HUNTER, LAWRENCE C; AN EXPERIMENT IN THE TRANSPORTABILITY OF COMPUTER-BASED CURRICULUM MATERIALS (J031757); 12 MONTHS \$83,328

UNIVERSITY OF OREGON - EUGENE

KLOPFENSTEIN, C E; THE DEVELOPMENT OF THE USE OF SMALL DIGITAL COMPUTERS INTERFACED WITH CHEMICAL INSTRUMENTATION IN AN UNDERGRADUATE CHEMISTRY LABORATORY (J000393 001); 18 MONTHS \$42,400

PENNSYLVANIA**ALLENTOWN COLLEGE ST FRANCIS DE SALES**

GADEK, FRANK J; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), LEHIGH VALLEY NETWORK (J030215); 14 MONTHS \$6,800

GADEK, FRANK J; PRISE (J030215 001); \$6,800

CARNEGIE-MELLON UNIVERSITY

NEWELL, ALLEN; COMPUTER - ASSISTED INSTRUCTION PROJECT (C709000); 3 MONTHS \$5,500

CEDAR CREST COLLEGE

COZZOLINO, GERARD E; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), LEHIGH VALLEY NETWORK (J030218); 14 MONTHS \$4,400

COZZOLINO, GERARD E; PRISE (J030218 001); \$4,400

ELIZABETHTOWN COLLEGE

KEEPER, JAMES L; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), CENTRAL REGION NETWORK (J030204); 25 MONTHS \$6,500

KEEPER, JAMES L; PRISE (J030204 001); \$6,500

GANNON COLLEGE

PALMER, JAMES E; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), WESTERN REGION NETWORK (J030208); 24 MONTHS \$10,700

PALMER, JAMES E; PRISE (J030208 001); \$10,700

INTERUNIVERSITY COMMUNICATIONS COUNCIL

ANASTASIO, ERNEST J; INVESTIGATION OF FACTORS THAT INHIBIT THE WIDESPREAD USE OF COMPUTERS IN THE INSTRUCTIONAL PROCESS (J01747 001); 12 MONTHS \$12,400

KINGOS COLLEGE

DECESARIS, ANGELO; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), CENTRAL REGION NETWORK (J030203); 25 MONTHS \$10,500

DECESARIS, ANGELO; PRISE (J030203 001); \$10,500

LAFAYETTE COLLEGE

SCHWAR, JAMES; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), LEHIGH VALLEY NETWORK (J030217); 14 MONTHS \$6,600

SCHWAR, JAMES; PRISE (J030217 001); \$6,600

LEHIGH UNIVERSITY

WALKER, JOHN E; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), LEHIGH VALLEY NETWORK (J030214); 14 MONTHS \$30,700

WALKER, JOHN E; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), LEHIGH VALLEY NETWORK (J030214 001); \$31,100

LOCK HAVEN STATE COLLEGE

BILLHARTZ, M H; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), CENTRAL REGION NETWORK (J030201); 25 MONTHS \$10,000

BILLHARTZ, M H; PRISE (J030201 001); \$10,000

MANSFIELD STATE COLLEGE

WANICH, WILLIAM P; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), CENTRAL REGION NETWORK (J030203); 26 MONTHS \$3,000

WANICH, WILLIAM P; PRISE (J030203 001); \$3,600

MERCYHURST COLLEGE

BALDWIN, JOHN R; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), WESTERN REGION NETWORK (J030210); 24 MONTHS \$11,500

BALDWIN, JOHN R; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), WESTERN REGION NETWORK (J030210 001); \$11,600

MORAVIAN COLLEGE

BADER, MORRIS; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), LEHIGH VALLEY NETWORK (J030218); 14 MONTHS \$12,200

BADER, MORRIS; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), WESTERN REGION NETWORK (J030218 001); \$12,200

MUHLENBERG COLLEGE

LOY, WALTER; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), LEHIGH VALLEY NETWORK (J030219); 14 MONTHS \$9,700

LOY, WALTER; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), LEHIGH VALLEY NETWORK (J030219 001); \$9,700

PENNSYLVANIA STATE UNIVERSITY

LAIRD, DONALD T, AND BERNITT, DANIEL L; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), CENTRAL REGION NETWORK (J030201); 25 MONTHS \$32,200

LAIRD, DONALD T, AND BERNITT, DANIEL L; PRISE (J030201 001); \$32,200

SLIPPERY ROCK STATE COLLEGE

CAMPAIGNE, HOWARD; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), WESTERN REGION NETWORK (J030212); 24 MONTHS \$3,900

CAMPAIGNE, HOWARD; PRISE (J030212 001); \$3,900

UNIVERSITY OF PITTSBURGH

GLASER, ROBERT; PROJECT FOR COMPUTER FEASIBILITY AND REQUIREMENTS FOR INDIVIDUALIZATION IN THE ELEMENTARY SCHOOL (J000340 X03); 6 MONTHS \$35,100

GLASER, ROBERT, AND COOLEY, WILLIAM W; COMPUTER FEASIBILITY AND REQUIREMENTS FOR INDIVIDUALIZATION IN THE ELEMENTARY SCHOOL-PROJECT CONTINUATION (J000340 X04); 12 MONTHS \$250,000

DWYER, THOMAS A; AN EXPERIMENT IN THE REGIONAL USE OF COMPUTERS BY SECONDARY SCHOOL SYSTEMS-PHASE II (J001077 001); 12 MONTHS \$173,400

ELLIS, R G; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), WESTERN REGION NETWORK (J030208); 24 MONTHS \$36,900

ELLIS, R G; PRISE (J030208 001); \$37,200

DWYER, THOMAS; A CASE STUDY IN THE PORTABILITY OF INSTRUCTIONAL SOFTWARE AT THE SECONDARY SCHOOL LEVEL (J031221); 6 MONTHS \$60,500

UNIVERSITY OF SCRANTON

CASEY, PAUL J B J; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), CENTRAL REGION NETWORK (J030904); 24 MONTHS \$4,800

CASEY, PAUL J B J; PRISE (J030904 001); \$4,800

VILLA MARIA COLLEGE

PETERSON, G M; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), WESTERN REGION NETWORK (J030911); 24 MONTHS \$9,800

PETERSON, G M; PRISE (J030911 001); \$9,800

WESTMINSTER COLLEGE

HENDRY, RICHARD A; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), WESTERN REGION NETWORK (J030918); 24 MONTHS \$9,800

PEEK, JAMES M; PRISE (J030918 001); \$9,800

WILKES COLLEGE

WILLIAMS, DAVID; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), LEHIGH VALLEY NETWORK (J030900); 14 MONTHS \$10,800

WILLIAMS, DAVID; PRISE (J030900 001); \$10,800

WILLIAMSPORT AREA COMMUNITY COLLEGE

BOYERS, RALPH L; PENNSYLVANIA'S REGIONAL INSTRUCTIONAL SYSTEM FOR EDUCATION (PRISE), CENTRAL REGION NETWORK (J030907); 24 MONTHS \$8,700

BOYERS, RALPH L; PRISE (J030907 001); \$8,700

TEXAS

UNIV OF TEXAS AT AUSTIN

JUDD, WILSON A, O'NEIL, HAROLD, AND SIMMONS, ROBERT F; EMPIRICAL AND THEORETICAL FOUNDATIONS OF INSTRUCTIONAL

DESIGN FOR COMPUTER-BASED INSTRUCTIONAL SYSTEMS, A PROGRAM OF RESEARCH AND DEVELOPMENT (J000309 X04); 12 MONTHS \$169,836

BROWNE, JAMES C; AN EXPERIMENT IN THE TRANSPORTABILITY OF COMPUTER-BASED CURRICULUM MATERIALS (J031153); 12 MONTHS \$68,400

VIRGINIA

HOLLINS COLLEGE

HEGE, E KEITH; EXPERIMENT IN UTILIZING MINI-COMPUTER FACILITIES FOR INSTRUCTIONAL PURPOSES (J001124 001); 12 MONTHS \$1,800

HUMAN RESOURCES RESEARCH ORGANIZATION

SEIDEL, ROBERT J; RESEARCH ON INSTRUCTIONAL DECISION MODELS (J000774 001); 12 MONTHS \$179,100

SEIDEL, ROBERT J; STRATEGIES FOR DEVELOPING COMPUTER-BASED CURRICULAR MATERIALS (J031155); 22 MONTHS \$172,400

MITRE CORPORATION-MITRE CORPORATION

STETTEN, KENNETH J; DEMONSTRATION AND EVALUATION OF THE TICCI CAI SYSTEM (C788000); 54 MONTHS \$1,000,000

STETTEN, KENNETH J; TOWARD A MARKET-ORIENTED COMPUTER BASED LEARNING SYSTEM (J028078 001); 6 MONTHS \$474,800

STETTEN, KENNETH J; MEASURING THE SOCIAL IMPACT OF INTERACTIVE TELEVISION (J038785); 9 MONTHS \$299,600

SPECIALIZED RESEARCH FACILITIES AND EQUIPMENT SUPPORT

SPECIALIZED BMS RSCH. FACILITIES AND EQUIP.

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

SINSHEIMER, ROBERT L; PURCHASE OF SPECIALIZED EQUIPMENT FOR BIOLOGICAL RESEARCH (B041181); 12 MONTHS \$59,600

HOOD, LEROY E; EQUIPMENT FOR INVESTIGATING THE GENETIC CONTROL OF ANTIBODY DIVERSITY (B031191); 12 MONTHS \$47,200

DICKERSON, RICHARD E, AND STROUD, ROBERT M; SPECIAL EQUIPMENT FOR LARGE-PROTEIN X-RAY STRUCTURE ANALYSIS (B031191); 12 MONTHS \$225,000

STANFORD UNIVERSITY

BERO, PAUL; PURCHASE OF A HIGH RESOLUTION ELECTRON MICROSCOPE (B051188*); 12 MONTHS \$70,000

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

MORALES, MANUEL F; PURCHASE OF A LABORATORY COMPUTER SYSTEM (B041193); 12 MONTHS \$15,600

COLORADO

UNIVERSITY OF COLORADO

ALBERSHEIM, PETER, AND ALBERT, HARRISON; DESIGN OF EQUIPMENT FOR DATA ACQUISITION AND ANALYSIS SYSTEM FOR HIGH RESOLUTION GAS CHROMATOGRAPHY (B041193); 12 MONTHS \$9,400

CONNECTICUT

YALE UNIVERSITY

KONIGSBERG, WILLIAM H, RICHARDS, FRANK F, AND SIBLEY, CHARLES G; EQUIPMENT FOR STUDIES OF PROTEIN STRUCTURE (B041148); 12 MONTHS \$44,600

ILLINOIS

FIELD MUSEUM OF NATURAL HISTORY

SOLEM, G ALAN; PURCHASE OF A SCANNING ELECTRON MICROSCOPE (B041191*); 24 MONTHS \$56,500

NORTHWESTERN UNIVERSITY

DALLOS, PETER; SPECIAL PURPOSE DIGITAL COMPUTER (B041191); 12 MONTHS \$36,100

UNIVERSITY OF CHICAGO

HEINRIKSON, ROBERT L, LAW, JOHN H, AND STEINER, DONALD F; EQUIPMENT FOR A PROTEIN SEQUENCING CENTER (B041144); 12 MONTHS \$40,000

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

HIRS, CHRISTOPHE H W; SCANNING ELECTRON MICROSCOPE FACILITY (B031191*); 12 MONTHS \$30,000

KANSAS

KANSAS STATE UNIVERSITY

PITTS, CHARLES W, AND ROTH, L EVANS; PURCHASE OF A SCANNING ELECTRON MICROSCOPE (B041194); 12 MONTHS \$40,000

MARYLAND

JOHNS HOPKINS UNIVERSITY

ROSEMAN, SAUL; EQUIPMENT FOR RESEARCH IN MOLECULAR BIOLOGY (B031130); 12 MONTHS \$70,000

BEER, MICHAEL; PURCHASE OF BIOLOGICAL RESEARCH EQUIPMENT (B031182); 12 MONTHS \$50,000

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

KING, JONATHAN A; PURCHASE OF AN ELECTRON MICROSCOPE FOR MACROMOLECULAR RECOGNITION AND ASSEMBLY (B031119); 12 MONTHS \$50,000

MISSISSIPPI

MISSISSIPPI STATE UNIVERSITY

GLICK, BRUCE, AND YARBROUGH, JAMES D; ESTABLISHMENT OF AN ELECTRON MICROSCOPE FACILITY AT MISSISSIPPI STATE UNIVERSITY (B031110); 12 MONTHS \$30,000

NEW YORK

AMERICAN MUSEUM OF NATURAL HISTORY

ROZEN, JEROME G JR; PURCHASE OF A SCANNING ELECTRON MICROSCOPE (B031150); 24 MONTHS \$61,900

BROOKHAVEN LABORATORY

SHAW, ELLIOTT N, AND LEDBETTER, MYRON C; ELECTRON MICROSCOPY FACILITY (A000145); 12 MONTHS \$148,000

HUNTER COLLEGE

MAWE, RICHARD C; EQUIPMENT FOR THE GROWTH AND HARVESTING OF MICROORGANISMS (B031196); 12 MONTHS \$27,600

ROCKEFELLER UNIVERSITY

SIEKEVITZ, PHILIP; PARTIAL SUPPORT FOR SPECIALIZED RESEARCH EQUIPMENT (B031117); 12 MONTHS \$18,100

SYRACUSE UNIVERSITY

BALBINDER, ELIAS; PURCHASE OF A LIQUID SCINTILLATION COUNTER (B031100); 12 MONTHS \$18,900

NORTH CAROLINA

DUKE UNIVERSITY

BOYNTON, JOHN E, AND GILLHAM, NICHOLAS W; EQUIPMENT FOR THE STUDY OF HEREDITARY CONTROL OF ORGANELLE STRUCTURE AND FUNCTION (B031126); 12 MONTHS \$17,600

TENNESSEE

GEORGE PEABODY COLLEGE FOR TEACHERS

HOGGE, JAMES H; EQUIPMENT FOR REAL-TIME ANALYSIS OF BIOELECTRIC SIGNALS (B031146); 12 MONTHS \$32,700

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

ADAMS, MICHAEL II, AND BECKER, WAYNE; PURCHASE OF A LIQUID SCINTILLATION SYSTEM (B031111); 12 MONTHS \$10,000

UNIVERSITY ATMOSPHERIC RESEARCH FACILITIES

ALASKA

UNIVERSITY OF ALASKA-GEOPHYSICAL INSTITUTE

SWIFT, DANIEL W; DEVELOPMENT OF GEOPHYSICAL INSTITUTE DATA PROCESSING SYSTEM (A031199); 18 MONTHS \$33,300

CALIFORNIA

UNIVERSITY OF CALIFORNIA, BERKELEY

ANDERSON, KINSEY A; EQUIPMENT ITEMS WHICH WILL AID THE REDUCTION AND ANALYSIS OF SCIENTIFIC DATA (A031180); 12 MONTHS \$49,000

MARYLAND

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION-NATIONAL ENVIRONMENTAL SATELLITE SERVICE
JOHNSON, DAVID S; *PROCUREMENT OF SMS DATA UTILIZATION STATION (DUS) (AG00340)*; 18 MONTHS \$118,000

NEW HAMPSHIRE

DARTMOUTH COLLEGE-THAYER SCHOOL OF ENGINEERING
MORGAN, MILLETT G; *TO PURCHASE A DIGITAL SPECTRUM ANALYZER (AG02881)*; 12 MONTHS \$28,300

NEW YORK

STATE UNIVERSITY AT ALBANY
SCHAEFER, VINCENT J, AND HOGAN, AUSTIN W; *AEROSOL CONCENTRATIONS ON A GLOBAL SCALE (AG01504*)*; 12 MONTHS \$25,000
COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY
DONN, WILLIAM L; *ELECTRONIC FACILITIES FOR INFRASOUND PROGRAM (AG02856)*; 12 MONTHS \$29,400

UTAH

UTAH STATE UNIVERSITY
CLARK, CLAYTON; *ATMOSPHERIC MODELING FACILITY (AG02857)*; 12 MONTHS \$14,000

SPECIALIZED SOCIAL SCIENCE RESEARCH FACILITIES

CALIFORNIA

UNIVERSITY OF CALIFORNIA, BERKELEY
BALDERSTON, F E; *OPERATION OF A MANAGEMENT SCIENCE RESEARCH FACILITY (S031138*)*; 12 MONTHS \$112,900
UNIVERSITY OF CALIFORNIA, SAN DIEGO
SMITH, TIMOTHY S; *EQUIPMENT FOR RESEARCH IN EXPERIMENTAL LINGUISTICS (S031118)*; 12 MONTHS \$57,200
UNIVERSITY OF CALIFORNIA, SANTA BARBARA
PREMACK, DAVID; *FACILITY FOR RESEARCH ON LANGUAGE BEHAVIOR IN THE CHIMPANZEE (S031114)*; 12 MONTHS \$60,000

CONNECTICUT

HASKINS LABORATORIES INC
COOPER, FRANKLIN S, AND LIEBERMAN, ALVIN M; *A DIGITAL PLAYBACK FOR RESEARCH ON NATURAL SPEECH (S02833 001)*; \$53,300

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA
STEPHENSON, ROBERT L; *EQUIPMENT FOR SPECIALIZED ARCHEOLOGICAL AND ANTHROPOLOGICAL RESEARCH FACILITY (S031115)*; 12 MONTHS \$32,200

WASHINGTON

WASHINGTON STATE UNIVERSITY
IRWIN, HENRY T J; *EQUIPMENT FOR SEMI-AUTOMATED COLLECTION OF ARCHAEOLOGICAL DATA (S031114)*; 12 MONTHS \$10,000

EARTH SCIENCES RSCH. FACILITIES AND EQUIP.

ILLINOIS

UNIVERSITY OF CHICAGO
CLAYTON, ROBERT N, AND SMITH, JOSEPH V; *CHEMICAL AND ISOTOPE ANALYSIS WITH AN ION MICROPROBE (AG01131*)*; 12 MONTHS \$48,600

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON
HIRS, CHRISTOPHE H W; *SCANNING ELECTRON MICROSCOPE FACILITY (B031118*)*; 12 MONTHS \$10,000

PENNSYLVANIA

FRANKLIN AND MARSHALL COLLEGE
MORSE, STEARNS A; *FACILITY FOR CRUSTAL STUDIES IN COASTAL LABRADOR (AG01111 001)*; \$4,100
PENNSYLVANIA STATE UNIVERSITY
BURNHAM, C WAYNE; *SPECIALIZED RESEARCH EQUIPMENT (AG01111)*; 12 MONTHS \$20,200

OCEANOGRAPHIC RESEARCH VESSELS AND FACILITIES

UNIVERSITY OCEANOGRAPHIC EQUIPMENT

ALASKA

UNIVERSITY OF ALASKA-INSTITUTE OF MARINE SCIENCE
GOERING, JOHN J, AND MCROY, C PETER; *ANALYSES TO STUDY A PACKARD 15N ANALYZER TO STUDY THE BIOLOGICAL CYCLING OF NITROGEN IN THE SEA (AG01007)*; 12 MONTHS \$10,800

NEW YORK

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY
HAYS, JAMES D, AND KING, KENNETH JR; *SPECIALIZED RESEARCH EQUIPMENT- AUTOMATIC AMINO ACID ANALYZER (AG01119)*; 12 MONTHS \$46,200

OREGON

OREGON STATE UNIVERSITY
CUTSHALL, NORMAN; *ATOMIC ABSORPTION SPECTROPHOTOMETER (AG01103)*; 12 MONTHS \$16,500

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND
KENNETT, JAMES P, AND WATKINS, NORMAN D; *THE ESTABLISHMENT OF A DEEP-SEA PISTON CORING FACILITY (AG01175)*; 12 MONTHS \$9,900

WASHINGTON

UNIVERSITY OF WASHINGTON
RICHARDS, FRANCIS A; *EQUIPMENT FOR COMPUTING AND SALINITY-TEMPERATURE-DEPTH SYSTEMS (AG01109)*; 12 MONTHS \$18,900

UNIVERSITY PHYSICS RESEARCH FACILITIES

HIGH ENERGY FACILITIES

CALIFORNIA

STANFORD UNIVERSITY
FAIRBANK, W M, HOFSTADTER, ROBERT, SCHWARTZ, MELVIN, SCHWETTMAN, H A, AND WOJCIKI, STANLEY; *HIGH ENERGY PHYSICS, CRYOGENIC RESEARCH, AND GRAVITATIONAL RADIATION (P03289 001*)*; 12 MONTHS \$340,000

NEW YORK

CORNELL UNIVERSITY
MCDANIEL, B D; *OPERATIONAL SUPPORT OF THE 10 GEV ELECTRON SYNCHROTRON FACILITY (C537000 013*)*; 12 MONTHS \$330,000
MCDANIEL, B D; *OPERATIONAL SUPPORT OF THE 10 GEV ELECTRON SYNCHROTRON FACILITY (C537000 013*)*; \$180,000

LOW ENERGY FACILITIES

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON
RICKEY, MARTIN E, AND MILLER, DANIEL W; *EXPERIMENTAL FACILITIES FOR THE INDIANA CYCLOTRON (P03111 008)*; 12 MONTHS \$100,000

CHEMISTRY RESEARCH INSTRUMENTS

ARIZONA

UNIVERSITY OF ARIZONA
HALL, H K JR; *PURCHASE OF A DIGITAL DATA ACQUISITION SYSTEM (P032509)*; 12 MONTHS \$14,000

CALIFORNIA

CALIFORNIA STATE UNIVERSITY, LOS ANGELES
GOLDWHITE, HAROLD; *PURCHASE OF A MASS SPECTROMETER (P032794)*; 12 MONTHS \$50,000
CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO
BERTIN, HENRY J; *PURCHASE OF AN ELECTRON SPIN RESONANCE SPECTROMETER (P032800)*; 12 MONTHS \$20,000

UNIVERSITY OF CALIFORNIA, BERKELEY

SHIRLEY, DAVID A; PURCHASE OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER (P032796); 12 MONTHS \$25,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

SCOTT, ROBERT L; PURCHASE OF A DATA ACQUISITION SYSTEM (P032801); 12 MONTHS \$60,000

UNIVERSITY OF CALIFORNIA, RIVERSIDE

HELMKAMP, GEORGE K; PURCHASE OF A DATA ACQUISITION AND CONTROL SYSTEM (P032827); 12 MONTHS \$55,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

KAMEN, MARTIN D; PURCHASE OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER (P032829); 12 MONTHS \$130,000

COLORADO

COLORADO STATE UNIVERSITY

OSTERYOUNG, ROBERT A; PURCHASE OF AN ION CYCLOTRON RESONANCE SPECTROMETER (P032874); 12 MONTHS \$43,000

CONNECTICUT

YALE UNIVERSITY

BERSON, JEROME A; PURCHASE OF AN ELECTRON SPECTROMETER (P032798 001); 8 MONTHS \$38,000

DELAWARE

UNIVERSITY OF DELAWARE

VENANZI, LUIGI M; PURCHASE OF A DIGITAL DATA SYSTEM (P032706); 12 MONTHS \$15,000

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

SPICER, WILLIAM M; PURCHASE OF A MASS SPECTROMETER (P032782); 12 MONTHS \$38,000

ILLINOIS

NORTHWESTERN UNIVERSITY

BASOLO, FRED; PURCHASE OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER (P032833); 12 MONTHS \$37,000

UNIVERSITY OF CHICAGO

RICE, STUART A; PURCHASE OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER (P032718); 12 MONTHS \$100,000

UNIVERSITY OF ILLINOIS AT URBANA

GUTOWSKY, H S; PURCHASE OF MAGNETIC RESONANCE INSTRUMENTATION (P032823); 12 MONTHS \$70,000

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

SCHAEFFER, R O; PURCHASE OF DATA ACQUISITION SYSTEM FOR MASS SPECTROMETER (P032725); 12 MONTHS \$36,000

KANSAS

KANSAS STATE UNIVERSITY

DAANE, A H; PURCHASE OF A DIGITAL DATA SYSTEM (P032705); 12 MONTHS \$18,000

UNIVERSITY OF KANSAS

LANDGREBE, JOHN A; PURCHASE OF STOPPED-FLOW KINETIC APPARATUS (P032705); 12 MONTHS \$12,000

MASSACHUSETTS

HARVARD UNIVERSITY

VANELLI, RONALD E; PURCHASE OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER (P032817); 12 MONTHS \$140,000

MOUNT HOLYOKE COLLEGE

HALL, GEORGE E; PURCHASE OF A SPECTROPHOTOMETER (P032745); 12 MONTHS \$15,000

MICHIGAN

MICHIGAN STATE UNIVERSITY

KINSINGER, J B; PURCHASE OF A LASER RAMAN SPECTROMETER (P032221); 12 MONTHS \$28,500

MINNESOTA

UNIVERSITY OF MINNESOTA

HEXTER, R M; PURCHASE OF A MASS SPECTROMETER (P032777); 12 MONTHS \$60,000

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI

SCOTT, ROBERT B JR; PURCHASE OF AN ULTRAVIOLET-VISIBLE SPECTROPHOTOMETER (P032835); 12 MONTHS \$22,900

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

TROUTNER, DAVID E; PURCHASE OF AN ATOMIC ABSORPTION SPECTROPHOTOMETER (P032821); 12 MONTHS \$10,000

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

BAUMGARTEN, HENRY E; PURCHASE OF AN X-RAY DIFFRACTOMETER (P032742); 12 MONTHS \$13,700

NEW JERSEY

PRINCETON UNIVERSITY

MISLOW, KURT; PURCHASE OF A MASS SPECTROMETER SYSTEM (P032826); 12 MONTHS \$65,000

RUTGERS UNIVERSITY

BIRD, GEORGE R; PURCHASE OF A FAR INFRARED SPECTROMETER (P032800); 12 MONTHS \$30,000

NEW YORK

COLUMBIA UNIVERSITY

MILLER, J MALCOLM; PURCHASE OF ELECTRONIC INSTRUMENTATION FOR RESEARCH IN CHEMICAL PHYSICS (P032892); 12 MONTHS \$20,000

CORNELL UNIVERSITY

HAMMES, GORDON G; PURCHASE OF A RAMAN SPECTROMETER (P032802); 12 MONTHS \$30,000

SYRACUSE UNIVERSITY

VINCOW, GERSHON; PURCHASE OF AN ELECTRON SPIN RESONANCE SPECTROMETER (P032828); 12 MONTHS \$25,000

NORTH CAROLINA

DUKE UNIVERSITY

QUIN, LOUIS D; PURCHASE OF COMPONENTS FOR AN ELECTRON SPIN RESONANCE SPECTROMETER (P032898); 12 MONTHS \$25,000

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

HISKEY, R G; PURCHASE OF A FOURIER TRANSFORM INFRARED SPECTROPHOTOMETER (P032825); 12 MONTHS \$39,000

OHIO

UNIVERSITY OF CINCINNATI

JAFFE, HANS H, AND DAHLGREN, C; PURCHASE OF AN X-RAY FLUORESCENCE SPECTROMETER (P032831); 12 MONTHS \$18,000

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

CARETTO, ALBERT A JR; PURCHASE OF A GAMMA SPECTROMETER SYSTEM (P032853); 12 MONTHS \$10,000

PENNSYLVANIA STATE UNIVERSITY

DIXON, JOSEPH A; PURCHASE OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER (P032823); 12 MONTHS \$120,000

SOUTH CAROLINA

FURMAN UNIVERSITY

KUBLER, DONALD G; PURCHASE OF A RAMAN SPECTROMETER (P032802); 12 MONTHS \$17,000

TEXAS

RICE UNIVERSITY

MARGRAVE, JOHN L; PURCHASE OF AN ELECTRON SPIN RESONANCE SPECTROMETER (P032822); 12 MONTHS \$30,000

TEXAS A & M UNIVERSITY

MARTELL, ARTHUR E; PURCHASE OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER (P032912); 12 MONTHS \$57,300

UTAH

UNIVERSITY OF UTAH

GRANT, DAVID M; PURCHASE OF A DIGITAL DATA SYSTEM (P032848); 12 MONTHS \$40,600

VIRGINIA

UNIVERSITY OF VIRGINIA

SCHATZ, PAUL N; PURCHASE OF COMPONENTS FOR AN EMISSION SPECTROMETER (P032789); 12 MONTHS \$17,000

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

WILLARD, JOHN E; PURCHASE OF AN INFRARED-RAMAN SPECTROMETER SYSTEM (P032827); 12 MONTHS \$70,000

SPECIALIZED ENGINEERING AND MATERIALS RESEARCH FACILITIES

ENGINEERING RESEARCH FACILITIES AND EQUIPMENT

CALIFORNIA

STANFORD UNIVERSITY

KSU, E Y; PURCHASE OF A DATA ACQUISITION REDUCTION SYSTEM FOR THE STANFORD WIND, WATER-WAVE RESEARCH FACILITY (K031999); 12 MONTHS \$30,500

UNIVERSITY OF CALIFORNIA, BERKELEY

HODGES, D A; SPECIALIZED RESEARCH EQUIPMENT - EPITAXIAL REACTOR AND SPUTTER ETCH SYSTEMS (K031956); 12 MONTHS \$38,000
SARRISON, D J; SPECIALIZED RESEARCH EQUIPMENT - CORE MEMORY FOR COMPUTER PROCESSOR-CONTROLLER (K031987); 12 MONTHS \$17,800

COLORADO

UNIVERSITY OF COLORADO

RAMIREZ, W FRED; SPECIALIZED RESEARCH EQUIPMENT. MINI-COMPUTER FOR STUDIES IN CHEMICAL PROCESS DYNAMICS (K031411); 12 MONTHS \$10,900

CONNECTICUT

UNIVERSITY OF CONNECTICUT

BENNETT, C O; AN INFRARED SPECTROMETER FOR THE STUDY OF ADSORBED SPECIES DURING CATALYSIS (K031433); 12 MONTHS \$15,000

DISTRICT OF COLUMBIA

GEORGETOWN UNIVERSITY

TORIDIS, THEODORE G; PURCHASE OF EQUIPMENT FOR PROJECT MANAGEMENT AND COMPUTER-AIDED DESIGN RESEARCH (K031977); 12 MONTHS \$29,900

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY

VEY, EBEN; PURCHASE OF MAGNETIC TAPE DATA ACQUISITION SYSTEM (K031971); 12 MONTHS \$23,100

UNIVERSITY OF ILLINOIS AT URBANA

WESTWATER, JAMES W; SPECIALIZED RESEARCH EQUIPMENT FOR COMPUTERIZATION (K031429); 12 MONTHS \$8,300

WESTWATER, JAMES W; SPECIALIZED RESEARCH EQUIPMENT. ULTRAVIOLET SPECTROPHOTOMETER FACILITY (K031353); 12 MONTHS \$8,700

INDIANA

PURDUE UNIVERSITY

HUNGERFORD, H E; BASIC NEUTRON SPECTROSCOPY (K032453); 12 MONTHS \$11,000

COHEN, RAYMOND, AND CROCKER, MALCOLM J; MACHINERY NOISE CONTROL (K031190); 12 MONTHS \$19,700

SCHIFF, ANSHEL J; PURCHASE OF EQUIPMENT FOR MEASURING WIND LOADS ON STRUCTURES (K031972); 12 MONTHS \$19,700

UNIVERSITY OF NOTRE DAME

LLOYD, J R, AND NOVOTNY, J L; PURCHASE OF DATA ACQUISITION EQUIPMENT (K031119); 12 MONTHS \$11,500

KENTUCKY

UNIVERSITY OF KENTUCKY

BIRKEBAK, RICHARD; UPGRADING OF A DATA ACQUISITION SYSTEM (K031993); 12 MONTHS \$8,700

MASSACHUSETTS

WORCESTER POLYTECHNIC INSTITUTE

WEISS, ALVIN H; SPECIALIZED RESEARCH EQUIPMENT. HIGH PRESSURE THERMO ANALYTICAL FACILITY (K031734); 12 MONTHS \$12,200

MICHIGAN

MICHIGAN STATE UNIVERSITY

WILKINSON, BRUCE W; SPECIALIZED RESEARCH EQUIPMENT. FLUE GAS DESULFURIZATION BY CENTRIFUGATION (K031271); 24 MONTHS \$12,200

UNIVERSITY OF MICHIGAN

CLARK, JOHN A; SPECIALIZED RESEARCH EQUIPMENT FOR MECHANICAL AND INDUSTRIAL ENGINEERING (K031969); 12 MONTHS \$8,700

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

DWYER, SAMUEL J III; SPECIALIZED RESEARCH EQUIPMENT. AUTOMATED VISUAL SYSTEMS RESEARCH (K031788); 12 MONTHS \$70,100

NEW JERSEY

RUTGERS UNIVERSITY

PESKIN, RICHARD L; LASER-DOPPLER ANEMOMETRY EQUIPMENT (K031938); 12 MONTHS \$20,000

NEW YORK

COLUMBIA UNIVERSITY

SHINOZUKA, MASANOBU; PURCHASE OF RANDOM SIGNAL PROCESSING EQUIPMENT (K031968); 12 MONTHS \$31,100

RENSSELAER POLYTECHNIC INSTITUTE

ALTWICKER, ELMAR R; SPECIALIZED RESEARCH EQUIPMENT. TRACE GAS ANALYZER (K031816); 12 MONTHS \$12,500

BIRNBOIM, MEYER H; EQUIPMENT FOR THE STUDY OF BIOMECHANICS OF SYNOVIAL JOINTS (K031978); 12 MONTHS \$27,000

SYRACUSE UNIVERSITY

DOSANJH, DARSHAN S; ENLARGEMENT OF AN ANECHOIC CHAMBER FOR NOISE RESEARCH (K031885); 12 MONTHS \$24,800

UNIVERSITY OF ROCHESTER

SALTSBURG, HOWARD, AND ANDERSON, J H JR; SPECIALIZED RESEARCH EQUIPMENT. FUNDAMENTAL STUDIES IN CATALYSIS (K031438); 12 MONTHS \$20,000

NORTH CAROLINA

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

WALSH, WILLIAM K; PURCHASE OF A 300 KV ELECTRON ACCELERATOR (K031990); 12 MONTHS \$44,000

OREGON

OREGON STATE UNIVERSITY

NATH, JOHN H; PURCHASE OF EQUIPMENT FOR STUDIES OF WIND AND WAVE FORCES ON STRUCTURES (K031970); 12 MONTHS \$21,700

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

TUMA, DAVID T; SPECIALIZED RESEARCH EQUIPMENT FOR ELECTRON ENERGY DISTRIBUTION AND EXCITATION IN GAS DISCHARGES (K031089); 12 MONTHS \$4,800

PENNSYLVANIA STATE UNIVERSITY

CONWAY, J C; INTERFEROMETRIC AND HOLOGRAPHIC EQUIPMENT FOR SOLID MECHANICS RESEARCH (K031973); 12 MONTHS \$3,000

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND

LEBLANC, LESTER R, AND MOFFETT, MARK B; EQUIPMENT FOR RESEARCH IN NONLINEAR ACOUSTICS, MARINE DATA PROCESSING, AND SUBMARINE SOIL MECHANICS (K031755); 12 MONTHS \$20,800

TENNESSEE

MEMPHIS STATE UNIVERSITY

SMITH, JOHN W; SPECIALIZED RESEARCH EQUIPMENT. ANALYTICAL CHROMATOGRAPHY (K031230); 12 MONTHS \$6,600

WASHINGTON

UNIVERSITY OF WASHINGTON

VLASES, GEORGE C; SPECIALIZED EQUIPMENT FOR AN ELECTRON BEAM STABILIZED PULSED CO₂ LASER (K031193); 12 MONTHS \$20,000

MATERIALS RESEARCH FACILITIES AND EQUIPMENT

CALIFORNIA

UNIVERSITY OF CALIFORNIA, BERKELEY

EVERHART, T E; ACQUISITION OF A LINE PRINTER AND INCREMENTAL PLOTTER FOR AN IBM 1800 COMPUTER SYSTEM (H031418); 12 MONTHS \$6,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

SCHULTZ, SHELDON; ION MILLING MACHINE AND ASSOCIATED VACUUM SYSTEM (H031010); 12 MONTHS \$19,200

FLORIDA

UNIVERSITY OF MIAMI

ALEXANDRAKIS, GEORGE C; MICROWAVE TRANSMISSION RESONANCE STUDIES IN TRANSITION METALS AND THEIR ALLOYS (H031645); 12 MONTHS \$5,600

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LAX, BENJAMIN; OPERATION OF A HIGH MAGNET FIELD RESEARCH AND DEVELOPMENT LABORATORY (C810000 003*); \$90,000

MISSOURI

ST LOUIS UNIVERSITY

LEE, SOOK; VARIAN 18-INCH ELECTROMAGNET SYSTEM (H034661); 12 MONTHS \$10,000

NEW JERSEY

STEVENS INSTITUTE OF TECHNOLOGY

WEIL, ROLF; PURCHASE OF AN ELECTRON MICROSCOPE (K651481); 12 MONTHS \$7,500

NEW YORK

RENSSELAER POLYTECHNIC INSTITUTE

TOMOZAWA, MINORU; EQUIPMENT GRANT- LIGHT SCATTERING PHOTOMETER (H033974); 12 MONTHS \$15,900

OHIO

CASE WESTERN RESERVE UNIVERSITY

GEIL, P H; PURCHASE OF MICRODENSITOMETER (H034569); 12 MONTHS \$21,800

UNIVERSITY OF CINCINNATI

BOERIO, F JAMES; AN INFRARED SPECTROMETER FOR POLYMER CHARACTERIZATION (H034570); 12 MONTHS \$23,200

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

SIBLEY, WILLIAM A; ELECTRON POSITIVE-ION ACCELERATOR FOR USE IN THE PHYSICS RESEARCH LABORATORY (H034585); 12 MONTHS \$31,500

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

SEKERKA, ROBERT F; IMAGE ANALYZING COMPUTER (H034583); 12 MONTHS \$31,200

PENNSYLVANIA STATE UNIVERSITY

WHITE, E W; EQUIPMENT GRANT FOR A SCANNING ELECTRON MICROSCOPE (H034798); 12 MONTHS \$37,500

UTAH

UNIVERSITY OF UTAH

SOSIN, ABRAHAM; EQUIPMENT TO SUPPORT MEASUREMENTS OF THE MECHANICAL CHARACTERIZATION OF POLYMERS (H033760); 12 MONTHS \$29,000

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY

PAYLOVIC, A S; EXPANSION OF CRYSTAL GROWING FACILITIES IN THE PHYSICS DEPARTMENT (H034666); 12 MONTHS \$13,900

WISCONSIN

MARQUETTE UNIVERSITY

CARTZ, LOUIS; EQUIPMENT GRANT FOR A 'HIGH INTENSITY X-RAY SOURCE' (H033876); 12 MONTHS \$22,900

UNIVERSITY OF WISCONSIN, MADISON

PRUETT, CHARLES H; NEW VACUUM UV AND SOFT X-RAY BEAM LINES (H032645); 12 MONTHS \$62,300

WYOMING

UNIVERSITY OF WYOMING

GRANDY, WALTER T JR; COMPLETE CRYOGENICS FACILITY (H034498); 12 MONTHS \$7,500

UNIVERSITY ASTRONOMY RESEARCH FACILITIES AND EQUIPMENT

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

COHEN, MARSHALL R, AND MOFFET, ALAN T; RECEIVING EQUIPMENT FOR RADIO ASTRONOMY RESEARCH (P034591); 24 MONTHS \$93,000

UNIVERSITY OF CALIFORNIA, BERKELEY

WELCH, WILLIAM J; DEVELOPMENT OF THE HAT CREEK CM/MM WAVELENGTH INTERFEROMETER (P0345001); 12 MONTHS \$97,600

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

WALKER, MERLE F; ELECTROGRAPHY IN ASTRONOMICAL PHOTOMETRY AND SPECTROSCOPY (P034683 001); \$25,000

OHIO

OHIO STATE UNIVERSITY

SLETTEBAK, ARNE; IMAGE TUBE INSTRUMENTATION (P034859); 24 MONTHS \$82,000

RESEARCH APPLIED TO NATIONAL NEEDS (RANN)

NON-CLASSIFIED

CALIFORNIA

MASSELL, BENTON F; OTHER PROGRAM AWARDS (01AWDS); 16 MONTHS \$194,660

CONNECTICUT

LEHAN, EDWARD A; OTHER PROGRAM AWARDS (01AWDS); 12 MONTHS \$37,600

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (01AWDS); \$41,669

MARYLAND

NONE; OTHER PROGRAM AWARDS (01AWDS); \$900

MASSACHUSETTS

KELLY, EDWARD; OTHER PROGRAM AWARDS (01AWDS); 12 MONTHS \$26,800

MISSOURI

TUDOR, JAMES; OTHER PROGRAM AWARDS (01AWDS); 12 MONTHS \$49,000

NEW YORK

NONE; OTHER PROGRAM AWARDS (01AWDS); \$59,211

SOUTH CAROLINA

BUNGAY, HENRY R III; OTHER PROGRAM AWARDS (01AWDS); 12 MONTHS \$35,130

VIRGINIA

NONE; OTHER PROGRAM AWARDS (01AWDS); \$11,560

ADVANCED TECHNOLOGY APPLICATIONS

ALASKA

UNIVERSITY OF ALASKA

HICKEL, WALTER J; GEOTHERMAL RESOURCES RESEARCH CONFERENCE (1034315); 8 MONTHS \$49,000

UNIVERSITY OF ALASKA-GEOPHYSICAL INSTITUTE

PULPAN, HANS, AND BERG, EDUARD; SEISMIC ENGINEERING STUDIES IN ALASKA (1034347); 24 MONTHS \$21,000

ARIZONA

UNIVERSITY OF ARIZONA

MEINEL, ADEN B; STUDIES OF THERMAL CONVERSION OF SOLAR ENERGY FOR ELECTRICAL POWER PRODUCTION (1033002 001); 6 MONTHS \$107,000

CALIFORNIA

AEROSPACE CORPORATION

GREENBERG, A B; SYSTEM ANALYSIS OF PHOTOTHERMAL CONVERSION SYSTEMS (C718000); 6 MONTHS \$125,000

CALIFORNIA INSTITUTE OF TECHNOLOGY

HUDSON, DONALD E; NATIONAL INFORMATION SERVICE FOR EARTHQUAKE ENGINEERING (1018000 X01); 12 MONTHS \$95,200

ZUKOSKI, EDWARD E; CONVECTIVE FLOWS OF BUILDING FIRES (1031899 X00); 12 MONTHS \$39,800

IWAN, WILFRED D; THREE-YEAR OPERATION OF THE UNIVERSITIES COUNCIL FOR EARTHQUAKE ENGINEERING RESEARCH (1032588); 36 MONTHS \$49,500

HUDSON, DONALD E; STRONG-MOTION DATA ANALYSIS AND STRUCTURAL DYNAMICS INVESTIGATIONS OF THE SAN FERNANDO EARTHQUAKE OF FEBRUARY 9, 1971 (1033374); 6 MONTHS \$27,400

HUDSON, DONALD E; NATIONAL INFORMATION SERVICE FOR EARTHQUAKE ENGINEERING (1034315); 12 MONTHS \$148,000

NEW EXTENSIONS FOR UTILIZING SCIENTISTS INC

REID, CONRAD H; AN INFORMATION EXCHANGE IN ENZYME TECHNOLOGY (1034875); 24 MONTHS \$25,800

RAND CORPORATION

MORRIS, DEANE N; THE GROWING DEMAND FOR ENERGY (1000044 002); 12 MONTHS \$524,000

STANFORD RESEARCH INSTITUTE

ANBAR, MICHAEL; POLLUTION-FREE ELECTROCHEMICAL ENERGY GENERATION FROM FUEL (1034047); 15 MONTHS \$99,200

STANFORD UNIVERSITY

EUSTIS, R H; MHD PHENOMENA AT HIGH MAGNETIC FIELDS (1034880); 12 MONTHS \$147,300

KRUGER, PAUL; STIMULATION OF GEOTHERMAL AQUIFERS FOR CONTRIBUTING TO THE ENERGY REQUIREMENTS OF THE UNITED STATES (1034825); 12 MONTHS \$141,500

SHAH, HARESH C; MEASUREMENTS OF DYNAMIC CHARACTERISTICS OF MULTISTORY BUILDINGS SUBJECTED TO SAN FERNANDO EARTHQUAKE (1034887); 12 MONTHS \$28,400

KAPLAN, HENRY S, AND SCHWETTMAN, H ALAN; TO DEVELOP A PION FACILITY FOR CANCER THERAPY (1035007); 15 MONTHS \$717,700

UNIVERSITY OF CALIFORNIA, BERKELEY

MACK, DICK A; INSTRUMENTATION FOR ENVIRONMENTAL MONITORING (AG00471 001); 12 MONTHS \$200,900

AVERY, ROBERT T, BREKKE, TOR L, KEEFE, DENIS, AND FINNIE, IAIN; ROCK SHATTERING WITH ENERGETIC ELECTRONS (AG00388); 10 MONTHS \$48,900

PENZIEN, JOSEPH; NATIONAL INFORMATION CENTER FOR EARTHQUAKE ENGINEERING (1028549 X01); 12 MONTHS \$132,300

BERTERO, VITELMO V; INVESTIGATION OF THE BEHAVIOR OF THE OLIVE VIEW MEDICAL CENTER DURING THE FEBRUARY 9, 1971 SAN FERNANDO EARTHQUAKE (1028953 001); 12 MONTHS \$111,000

SEED, H BOLTON; INVESTIGATION OF GROUND MOTIONS AND SOIL STABILITY PROBLEMS IN THE SAN FERNANDO AREA DURING THE EARTHQUAKE OF FEBRUARY 9, 1971 (1028938 001); 12 MONTHS \$97,900

PENZIEN, JOSEPH, AND CHOPRA, ANIL K; ENERGY ABSORPTION CHARACTERISTICS OF STRUCTURAL SYSTEMS SUBJECTED TO EARTHQUAKE EXCITATION (1031885); 12 MONTHS \$317,300

BOLT, BRUCE A; STUDIES OF GROUND MOTIONS IN LOCAL EARTHQUAKES (1034307); 24 MONTHS \$32,600

TREZEK, GEORGE J; A COMPREHENSIVE RESEARCH PROGRAM ON MANAGEMENT OF HEAT REJECTED FROM LARGE POWER PLANTS (1034888); 12 MONTHS \$45,500

PENZIEN, JOSEPH; MONITORING EQUIPMENT FOR THE UNIVERSITY OF CALIFORNIA, BERKELEY, SHAKING TABLE (1034948); 12 MONTHS \$38,600

PENZIEN, JOSEPH; ENERGY ABSORPTION CHARACTERISTICS OF STRUCTURAL SYSTEMS SUBJECTED TO EARTHQUAKE EXCITATION (K014857 001); 1 MONTHS \$90,000

UNIVERSITY OF CALIFORNIA, DAVIS

CAHILL, T A; DEVELOPMENT OF X-RAY FLUORESCENCE ANALYSIS AND APPLICATION TO ATMOSPHERIC AEROSOLS (1039938); 12 MONTHS \$121,250

UNIVERSITY OF CALIFORNIA, IRVINE

LENHOFF, HOWARD M; DEVELOPMENT OF IMMOBILIZED COUPLED ENZYME SYSTEMS FOR REGENERATING ATP AND NADPH (1034921); 12 MONTHS \$47,800

UNIVERSITY OF CALIFORNIA, LOS ANGELES

SELNA, LAURENCE G, AND BRESLER, B B; COLLABORATIVE STRUC-

RURAL ENGINEERING STUDIES OF THE FEBRUARY 9, 1971 SAN FERNANDO EARTHQUAKE (U049931 001); 12 MONTHS \$79,000

DUKE, C MARTIN, AND MAL. AJIT; **EFFECTS OF SITE AND SOURCE ON GROUND MOTIONS IN THE SAN FERNANDO EARTHQUAKE (U049932 001); 12 MONTHS \$64,700**

KNOPPOFF, LEON; **STOCHASTIC SEISMOLOGY (U041437*); 24 MONTHS \$80,000**

LEE, KENNETH L, AND DUKE, C MARTIN; **INSTRUMENTATION FOR SEISMIC EARTH PRESSURE MEASUREMENT (U044793); 2 MONTHS \$10,000**

HART, GARY C; **CLUSTERED HIGH-RISE BUILDING RESPONSE DURING THE SAN FERNANDO EARTHQUAKE AND ONE OF ITS AFTERSHOCKS (U044941); 12 MONTHS \$29,600**

UNIVERSITY OF CALIFORNIA, RIVERSIDE

DAVID, F N; **FOREST FIRE STATISTICAL PROBLEMS (U041491 X00); 12 MONTHS \$41,700**

UNIVERSITY OF CALIFORNIA, SAN DIEGO

WILLIAMS, FORMAN A, AND LIBBY, PAUL A; **FIRE PROPAGATION ALONG SOLID SURFACES (U041774); 18 MONTHS \$63,800**

STANFORD UNIVERSITY-SCHOOL OF MEDICINE

FAIRBANK, WILLIAM M, OPPER, JAMES E, AND HARRISON, DONALD C; **SUPERCONDUCTING MAGNETOMETRY FOR DETECTION OF HEART DISEASE (U041774); 12 MONTHS \$149,800**

ATOMIC ENERGY COMMISSION-SAN FRANCISCO OPERATIONS OFFICE-AEC

HADEISHI, TETSUO; **ISOTOPE-SHIFT ZEEMAN ABSORPTION SPECTROMETER (AG004994); 12 MONTHS \$125,000**

COLORADO

COLORADO SCHOOL OF MINES

KELLER, G V, AND GROSE, L T; **HYDROTHERMAL SYSTEMS AT KILAUEA VOLCANO, HAWAII (U041899); 12 MONTHS \$462,500**

UNIVERSITY OF DENVER

HEWITT, JACK G; **FACTORS AFFECTING FLY ASH RESISTIVITY AND VOLTAGE BREAKDOWN IN ELECTROSTATIC PRECIPITATORS (U048610 X00); 12 MONTHS \$45,400**

BUREAU OF RECLAMATION-ENGINEERING AND RESEARCH CENTER-DENVER

ISRAELSEN, O ALLEN; **SUPPORT OF U. S. NATIONAL COMMITTEE ON TUNNELING TECHNOLOGY (AG004977); 12 MONTHS \$2,500**

DELAWARE

UNIVERSITY OF DELAWARE

BOER, KARL W; **DIRECT SOLAR ENERGY CONVERSION FOR LARGE SCALE TERRESTRIAL USE (U044878); 18 MONTHS \$291,200**

KWART, HAROLD; **UNDERTAKE INVESTIGATIONS OF PROCEDURES FOR DESULFURIZATION OF FOSSIL FUELS (U044964); 18 MONTHS \$49,700**

DISTRICT OF COLUMBIA

NONE; **OTHER PROGRAM AWARDS (02AWDS); \$8,033**

HITTMAN ASSOCIATES INC

HARVEY, DOUGLAS G; **STUDY OF MINIMIZATION OF ENERGY CONSUMPTION IN MULTI-FAMILY DWELLINGS (CA00000 001); 18 MONTHS \$87,800**

NATIONAL ACADEMY OF ENGINEERING

LINDER, CLARENCE H; **POWER PLANT SITING FORUM (C410064 000); 8 MONTHS \$11,500**

OFFICE OF SCIENCE & TECHNOLOGY

WEINHOLD, J FREDERICK; **COMPLETION OF O.S.T. ENERGY REFERENCE PROJECTIONS (CA00079); 6 MONTHS \$35,900**

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

CLIFFE, ROBERT A; **COMMITTEE ON FIRE RESEARCH (C410086 010); 12 MONTHS \$19,500**

BOVE, ALBERT N; **ADVISORY CONFERENCE ON EXCAVATION TECHNOLOGY (C410430); 4 MONTHS \$5,000**

DILLON, ROBERT M; **FINAL STUDY PERIOD OF THE BRABIN/NEW HAVEN ONSITE SOLID WASTE RESEARCH PROGRAM (C410410); 12 MONTHS \$148,100**

GEORGIA

GEORGIA INSTITUTE OF TECHNOLOGY

WULFF, WOLFGANG, AND ZUBER, NOVAK; **FLAMMABLE FABRICS (U041827); 12 MONTHS \$79,000**

HAWAII

UNIVERSITY OF HAWAII

YUEN, PAUL C, NAJITA, KAZUTOSHI, AND FURUMOTO, AUGUSTINE; **AN ENGINEERING FEASIBILITY STUDY OF AN IONOSPHERIC**

TECHNIQUE TO IMPROVE TSUNAMI WARNING SYSTEMS (U044973); 24 MONTHS \$115,500

ILLINOIS

ILLINOIS INSTITUTE OF TECHNOLOGY

THAU, STEPHEN A; **STUDIES OF STRESS WAVE SCATTERINGS BY STRUCTURAL ELEMENTS IN AN ELASTIC HALF-SPACE REPRESENTING SEISMIC WAVE-FOUNDATION INTERACTIONS (U044781); 24 MONTHS \$65,100**

NORTHWESTERN UNIVERSITY

VAN NESS, JAMES E; **LARGE SCALE DYNAMIC SYSTEMS (K043880*); 24 MONTHS \$40,000**

UNIVERSITY OF ILLINOIS AT URBANA

SOZEN, METE, AND NEWMARK, N M; **THE EVALUATION OF STRUCTURAL DAMAGE CAUSED BY THE SAN FERNANDO EARTHQUAKE (1971) TOWARD THE DEVELOPMENT OF IMPROVED METHODS FOR EARTHQUAKE-RESISTANT DESIGN (U049931 001); 12 MONTHS \$122,800**

SOZEN, METE A; **INVESTIGATION OF THE EFFECT OF EARTHQUAKE MOTIONS ON REINFORCED CONCRETE BUILDINGS (U040760 X00); 12 MONTHS \$79,900**

ACKERMANN, WILLIAM C; **CONFERENCE ON WASTE HEAT TRANSFER FROM LARGER SOURCES (U040671); 6 MONTHS \$18,000**

HENDRON, ALFRED J; **TUNNEL AND TUNNEL LINING BEHAVIOR (U04441 X00); 12 MONTHS \$29,500**

ATOMIC ENERGY COMMISSION-CHICAGO OPERATIONS OFFICE-AEC

CAIRNS, ELTON J; **RESEARCH AND DEVELOPMENT ON LITHIUM SULFUR SECONDARY BATTERIES (AG004948); 12 MONTHS \$500,000**

INDIANA

PURDUE UNIVERSITY

KRAUSE, PAUL C; **ON-LINE TRANSIENT CONTROL OF POWER SYSTEMS (U041903 X00); 12 MONTHS \$238,100**

JUDD, WILLIAM R, DEWITT, D P, AND WEST, T R; **PROPERTIES OF GEOLOGICAL SUBSTANCES (U044808 X00); 12 MONTHS \$112,900**

EMERY, ALDEN H; **ENZYMATIC METHODS OF MAKING FRUCTOSE (U044178); 12 MONTHS \$111,100**

WILLIAMS, THEODORE J; **SYSTEMS ENGINEERING OF COMPUTER CONTROL SYSTEMS FOR LARGE INDUSTRIAL COMPLEXES (U044963); 12 MONTHS \$30,000**

FRITSKER, A ALAN B; **SELF-CONTAINED BUILDING CONCEPTS AND ANALYSIS (U044976); 12 MONTHS \$109,500**

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

TSAO, GEORGE T; **PRODUCTION OF SUGAR MIXTURES FROM STARCH WITH THREE NATIVE AND INSOLUBILIZED ENZYMES (U044933); 12 MONTHS \$65,500**

LOUISIANA

LOUISIANA STATE UNIVERSITY, NEW ORLEANS

GUILBAULT, GEORGE G; **USE OF IMMOBILIZED ENZYME SYSTEMS IN ENVIRONMENTAL STUDIES (U048985); 24 MONTHS \$49,100**

TULANE UNIVERSITY

CHAMBERS, ROBERT P, AND COHEN, WILLIAM; **ENZYME ENGINEERING-INSOLUBILIZED ENZYMES AND MULTIENZYME SYSTEMS (U044973); 12 MONTHS \$53,000**

MARYLAND

ATOMIC ENERGY COMMISSION

HENDRIE, J M; **SUPERCONDUCTING ELECTRICAL POWER TRANSMISSION STUDIES (AG00451 001); 2 MONTHS \$20,000**

FORSYTH, E B, AND HENDRIE, J M; **SUPERCONDUCTING ELECTRICAL POWER TRANSMISSION SYSTEM (AG00451); 12 MONTHS \$530,000**

JOHNS HOPKINS UNIVERSITY

FRISTROM, ROBERT M; **FIRE PROBLEMS RESEARCH AND SYNTHESIS (U044848 X00); 12 MONTHS \$325,000**

NATIONAL BUREAU OF STANDARDS

WRIGHT, RICHARD, AND KRAMER, SAMUEL; **BUILDING PRACTICES FOR DISASTER MITIGATION (CA16000); 6 MONTHS \$140,000**

UNIVERSITY OF MARYLAND, COLLEGE PARK

MORSE, FREDERICK H; **SOLAR ENERGY PANEL (U044488); 6 MONTHS \$59,800**

MARTIN COMPANY-RIAS DIVISION

WESTWOOD, A R C, AND OZOL, M A; **ENVIRONMENT-ENHANCED DISINTEGRATION OF HARD ROCKS (C745000); 12 MONTHS \$41,000**

MASSACHUSETTS

BOSTON COLLEGE

MAKRIDES, A C, AND RUSSELL, IRVING J; **IMMOBILIZED ENZYMES**

ON ELECTRONICALLY CONDUCTING CARRIERS (063421); 24 MONTHS \$47,400

PANG, P H; LOW-COST SILICON PHOTOVOLTAIC CELLS FOR LARGE SOLAR POWER SYSTEMS (063475); 12 MONTHS \$62,200

HARVARD UNIVERSITY

EMMONS, HOWARD W; COMBUSTION RESEARCH (1030957); 24 MONTHS \$181,200

PRESTON, WILLIAM M, WILSON, RICHARD, AND BJARNGARD, BENGT E; APPLICATIONS OF PROTON RADIATION CANCER THERAPY (1030991 X00); 12 MONTHS \$85,200

EMMONS, HOWARD W, AND FRIEDMAN, RAYMOND; THE HOME FIRE PROJECT (103173 X00); 12 MONTHS \$296,800

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

MONTGOMERY, D BRUCE; CONTROL OF HIGH VOLTAGE DISCHARGES IN VACUUM INSULATED CRYOCABLES (C670001); 12 MONTHS \$165,000

COHEN, DAVID; MAGNETIC FIELDS PRODUCED BY STEADY CURRENTS IN HUMAN AND ANIMAL BODIES (C670002); 36 MONTHS \$106,000

KOLM, HENRY H, AND THORNTON, RICHARD D; MAGNEPLANE (C670003); 6 MONTHS \$310,000

MONTGOMERY, D BRUCE; A SUPERCONDUCTING MAGNET FOR INTRAVASCULAR NAVIGATION (C670004); 12 MONTHS \$92,800

KOLM, HENRY H, AND MAXWELL, EMANUEL; MINERAL PROCESSING AND WATER TREATMENT (C670005); 7 MONTHS \$145,000

MILLER, CHARLES L; URBAN GEOMETRICS - RAPID PROCESSING OF URBAN INFORMATION (1033422 X01); 12 MONTHS \$168,900

WHITMAN, ROBERT V, AND BIGGS, JOHN M; OPTIMUM SEISMIC PROTECTION FOR NEW BUILDING CONSTRUCTION IN EASTERN METROPOLITAN AREAS (1037935 X01); 12 MONTHS \$138,200

WHITMAN, ROBERT V; SYSTEMATIC DOCUMENTATION AND ANALYSIS OF DAMAGE TO HIGH RISE BUILDINGS DURING EARTHQUAKE OF 9 FEBRUARY 1971 IN LOS ANGELES (1039938 001); 12 MONTHS \$102,400

WILLIAMS, O C; FLAMMABILITY AND BURN POTENTIAL OF FABRICS (063181); 12 MONTHS \$66,800

KIRTLEY, JAMES L JR; RESEARCH INITIATION - END TURN INSULATION FOR HIGH VOLTAGE AIR CORE ALTERNATORS (0632783); 12 MONTHS \$16,000

WHITE, DAVID C; DYNAMICS OF ENERGY SYSTEMS (1038874); 12 MONTHS \$198,800

MCGARRY, F J; A MODEL FOR SYSTEMS ANALYSIS OF TUNNELING AND EXCAVATION (0634049); 12 MONTHS \$86,700

WANG, DANIEL I C; ENZYME SYSTEMS AND TECHNOLOGY FOR LARGE-SCALE SYNTHESIS (063381); 12 MONTHS \$376,400

WILSON, GERALD L; PHYSICAL PROCESSES IN CONTAMINATION FLASHOVER OF HIGH-VOLTAGE INSULATORS (1031793 X00); 12 MONTHS \$61,200

WHITE, DAVID C; ANALYTICAL TOOLS AND MODELING STUDIES FOR THE GAS INDUSTRY (0634936); 12 MONTHS \$256,600

CRANDALL, STEPHEN H, AND WILLIAMS, JAMES H JR; EARTHQUAKE ISOLATION OF STRUCTURES BY DUCTILE METAL FOUNDATION PADS (1034945); 12 MONTHS \$42,700

MOORADIAN, ARAM, AND KELLEY, PAUL L; DEVELOPMENT OF TURNABLE SEMI-CONDUCTOR LASERS FOR APPLICATION TO AIR POLLUTION MEASUREMENTS (1034990); 18 MONTHS \$221,000

UNIVERSITY OF MASSACHUSETTS, AMHERST

MIDDLEMAN, STANLEY, AND RHA, CHOKYUN; DEVELOPMENT OF PROTEIN FIBER AS AN ENGINEERING MATERIAL (0634997); 12 MONTHS \$30,900

LAURENCE, R L, KITTRELL, J R, AND HULTIN, H O; STUDIES OF A CATALYTIC REACTOR USING AN IMMOBILIZED MULTI-ENZYME SYSTEM (1034974); 12 MONTHS \$99,100

HERONEMUS, WILLIAM E; OCEAN SITED POWER PLANTS (1034978); 18 MONTHS \$145,100

WORCESTER POLYTECHNIC INSTITUTE

CLEMENTS, KEVIN A; RESEARCH INITIATION - DYNAMIC STATE ESTIMATION APPLIED TO ELECTRIC POWER SYSTEMS (1032781); 18 MONTHS \$20,000

MICHIGAN

UNIVERSITY OF MICHIGAN

STREETER, VICTOR L, AND WYLIE, E BENJAMIN; EARTHQUAKE INDUCED TRANSIENT PORE PRESSURES IN EARTH DAMS (1031771); 24 MONTHS \$143,600

WAYNE STATE UNIVERSITY

MEISEL, JEROME, AND BARNARD, ROBERT; DYNAMIC TRANSIENT CONTROL OF BULK INTERCONNECTED ELECTRIC POWER SYSTEMS (1034977 X00); 12 MONTHS \$36,600

MINNESOTA

UNIVERSITY OF MINNESOTA

FREDRICKSON, A G, AND TSUCHIYA, Z M; DYNAMICS OF INTERACTING MICROBIAL POPULATIONS (1032871 X01); 12 MONTHS \$61,000

FAIRHURST, CHARLES; ROCK-TUNNEL LINING INTERACTION (0634145); 18 MONTHS \$133,100

JORDAN, R C; RESEARCH APPLIED TO SOLAR-THERMAL POWER SYSTEMS (1034871 X00); 12 MONTHS \$445,600

MISSOURI

CANCER RESEARCH CENTER

BROWN, HARRY D; NONAQUEOUS SYNTHESIS OF A MATRIX-SUPPORTED ENZYME (1034773); 24 MONTHS \$56,000

UNIVERSITY OF MISSOURI, COLUMBIA

OTT, GRANVILLE E; DIGITAL COMPUTER CONTROL OF ELECTRICAL POWER SYSTEM SUBSTATIONS (1032765 X00); 12 MONTHS \$66,200

HOFT, RICHARD G, AND SLIVINSKY, CHARLES R; SOLID STATE POWER CONTROL STABILITY ANALYSIS USING METHODS OF LIAPUNOV AND POPOV (K034970 X00); 12 MONTHS \$50,200

UNIVERSITY OF MISSOURI, ROLLA

CHENG, FRANKLIN Y; DYNAMIC INSTABILITY AND ULTIMATE CAPACITY OF INELASTIC SYSTEMS PARAMETRICALLY EXCITED BY EARTHQUAKES (1034866); 15 MONTHS \$20,300

WASHINGTON UNIVERSITY

ZABORSZKY, JOHN; STUDIES OF PRINCIPLES FOR THE ALL DIGITALLY CONTROLLED AND OPERATED POWER SYSTEM (1034969 X00); 15 MONTHS \$61,000

MONTANA

UNIVERSITY OF MONTANA

SHAFIZADEH, FRED; CHEMISTRY OF CELLULOSIC FIRES (1033645 X00); 12 MONTHS \$83,700

NEVADA

UNIVERSITY OF NEVADA, RENO

DOUGLAS, BRUCE M; A PROPOSAL FOR STRONG MOTION EARTHQUAKE INSTRUMENTATION FOR RENO, SPARKS, AND TRUCKEE MEADOWS, NEVADA (1033389); 12 MONTHS \$36,400

NEW HAMPSHIRE

DARTMOUTH COLLEGE

RAGONE, DAVID V; A PRELIMINARY SURVEY OF EMISSION CONTROL TECHNOLOGY FOR COAL-FIRED ELECTRIC GENERATING PLANTS (1032189); 4 MONTHS \$12,000

NEW JERSEY

PRINCETON UNIVERSITY

OLASMAN, IRVIN; FLAME SPREADING ACROSS LIQUID FUELS (1032551 X00); 12 MONTHS \$65,000

SOLOW, ROBERT H, AND GROT, RICHARD A; ENERGY CONSERVATION IN HOUSING (1034994); 12 MONTHS \$143,600

RUTGERS UNIVERSITY

ANDERSON, WAYNE A; AN IMPROVED SCHOTTKY BARRIER PHOTOVOLTAIC DIODE FOR SOLAR ENERGY CONVERSION (1032786); 18 MONTHS \$16,000

CONSTANTINIDES, A; MULTISTAGE ENZYMIC CONVERSION OF GLUCOSE TO GLUCONIC ACID (1034916); 12 MONTHS \$31,900

CONSTANTINIDES, ALKIS, AND GILBERT, SEYMOUR; USE OF IMMOBILIZED ENZYMES IN FOOD PROCESSING, WASTE TREATMENT AND PHARMACEUTICAL PREPARATIONS (1034917); 12 MONTHS \$192,300

ROBERTS, FRED S; SIGNED DIGRAPHS AND THEIR APPLICATIONS TO PROBLEMS OF SOCIETY (1034985); 24 MONTHS \$35,800

NEW MEXICO

LOS ALAMOS SCIENTIFIC LABORATORY

ROWLEY, JOHN C; INITIAL DEVELOPMENT OF A NEW TUNNELING AND EXCAVATION TECHNOLOGY BASED ON ROCK-MELTING (AG00387); 6 MONTHS \$145,000

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

REITER, MARSHALL A; INVESTIGATION OF THE THERMAL REGIME OF THE RIO GRANDE RIFT SYSTEM OF NEW MEXICO (1034881); 24 MONTHS \$24,900

NEW YORK

AMERICAN SOCIETY OF CIVIL ENGINEERS

WISELY, WILLIAM H; EFFECTIVENESS OF UNDERGROUND CONSTRUCTION (1030080 001); 6 MONTHS \$39,400

TAYLOR, DONALD C; EVALUATION OF CURRENT METHODS OF STRUCTURAL DYNAMICS ANALYSIS USING NUCLEAR-INDUCED TRANSIENT EXCITATION (K033871*); 12 MONTHS \$36,900

CITY COLLEGE

SQUIRES, ARTHUR M; STUDIES TOWARD IMPROVING TECHNIQUES FOR GASIFYING COAL (1034886); 18 MONTHS \$644,400

CLARKSON COLLEGE OF TECHNOLOGY

HAMMAM, M S A A; STUDY OF MULTI COMPUTER CONTROL OF SYSTEM VOLTAGE AND REACTIVE POWER ON REAL-TIME BASIS (1034884 X00); 12 MONTHS \$32,900

COLUMBIA UNIVERSITY

- GREGOR, HARRY P; *STABILIZED ENZYME - HOLLOW FIBER SYSTEMS* (1031177); 24 MONTHS \$93,300
 SCHULZ, HELMUT W; *STUDIES ON SYSTEMS FOR THE NON-POLLUTING DISPOSAL AND ECONOMIC UTILIZATION OF SOLID WASTE* (1031188); 12 MONTHS \$49,700

COZELL UNIVERSITY

- AUER, P L, AND COMAR, C L; *NATIONAL ENERGY NEEDS AND ENVIRONMENTAL QUALITY* (1031903 X00); 12 MONTHS \$335,500
 COMAR, C L, AND AUER, P L; *NATIONAL ENERGY NEEDS AND ENVIRONMENTAL QUALITY* (1031903 X01); 12 MONTHS \$363,700
 TORRANCE, KENNETH E; *FLAME SPREAD OVER LIQUID FUEL* (1031194 X00); 12 MONTHS \$30,500
 LODAHL, THOMAS M; *WORKSHOP ON ENERGY AND THE ENVIRONMENT* (1031140); 6 MONTHS \$38,150
 MOORE, FRANKLIN K; *RESEARCH ON HEAT REJECTION SYSTEMS* (1031771); 18 MONTHS \$85,100
 EDWARDS, VICTOR H; *CHEMICAL REACTION ENGINEERING WITH INSOLUBILIZED ENZYMES* (1031115); 9 MONTHS \$19,900

NEW YORK UNIVERSITY

- BECHERT, THOMAS E; *RESEARCH INITIATION - DYNAMIC OPTIMAL CONTROL OF ELECTRIC POWER GENERATIONS* (1031715); 18 MONTHS \$16,000
 BECHERT, THOMAS E; *DYNAMIC OPTIMAL CONTROL OF ELECTRIC POWER GENERATIONS* (1031715 001); 18 MONTHS \$4,100
 NETZER, DICK, AND HANSEN, WILLARD; *ELECTRIC ENERGY SUPPLY IN THE NEW YORK AREA-ECONOMIC DEVELOPMENT AND POLITICAL DECISION-MAKING PROCESS* (1031181 X00); 12 MONTHS \$12,600

STATE UNIVERSITY AT BUFFALO

- RAY, W HARMON, AND SZEKELY, JULIAN; *MODELLING AND OPTIMIZATION OF THE IRONMAKING-STEELMAKING OPERATIONAL SEQUENCE* (1031186); 12 MONTHS \$49,400

UNITED ENGINEERING TRUSTEES

- ZECCA, JOHN A, AND FINK, L H; *CONTROL STRATEGIES FOR POWER SYSTEMS* (1031168); 12 MONTHS \$10,500
 DUNLOP, DONALD D; *ENERGY RESEARCH PRIORITIES* (1031160); 12 MONTHS \$10,800
 KATZ, DONALD L; *ENERGY TECHNOLOGIES FOR THE FUTURE* (1031165); 12 MONTHS \$20,000

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

- TRIFUNAC, MIHAILO D; *INVESTIGATION OF STRONG EARTHQUAKE GROUND MOTION* (1031781); 24 MONTHS \$102,900

NEW YORK UNIVERSITY-UNIVERSITY HEIGHTS CENTER

- FERRI, ANTONIO, AND HOYDYSH, WALTER G; *AERODYNAMIC AND ENVIRONMENTAL EFFECTS OF MODULAR STRUCTURAL PLACEMENT* (1031774); 24 MONTHS \$130,200

NORTH CAROLINA**EAST CAROLINA UNIVERSITY**

- PENNINGTON, SAM N; *A MATRIX-SUPPORTED ENZYME THERMAL PROBE FOR CHEMICAL ANALYSES* (1031167); 24 MONTHS \$17,500

OHIO**OHIO STATE UNIVERSITY**

- ROYER, GARFIELD P; *APPLICATIONS OF IMMOBILIZED ENZYMES TO THE TREATMENT AND UTILIZATION OF FOOD PLANT WASTES* (1031111); 24 MONTHS \$127,600

CASE WESTERN RESERVE UNIVERSITY-SCHOOL OF MEDICINE

- KRAMPITZ, L O; *HYDROGEN PRODUCTION BY PHOTOSYNTHESIS AND HYDROGENASE ACTIVITY - AN ENERGY SOURCE* (1031192 X00); 18 MONTHS \$160,000

OREGON**UNIVERSITY OF OREGON - EUGENE**

- DONNELLY, RUSSELL J; *APPLICATIONS OF CRYOGENIC TECHNIQUES TO PROBLEMS IN AIR POLLUTION* (1031017 X00); 12 MONTHS \$142,000

PENNSYLVANIA**COMBUSTION INSTITUTE**

- WILLIAMS, GLENN C; *FOURTEENTH SYMPOSIUM (INTERNATIONAL) ON COMBUSTION* (K031119*); 12 MONTHS \$5,000

PENNSYLVANIA STATE UNIVERSITY

- DEWALLE, DAVID R; *AGRO-POWER-WASTE WATER COMPLEX* (1031100); 18 MONTHS \$73,000

UNIVERSITY OF PENNSYLVANIA

- HUMPHREY, ARTHUR E, PERLMUTTER, DANIEL D, CHEN, MICHAEL S K, AND GRAVES, DAVID J; *ENZYME SYSTEMS AND THEIR PRACTICAL UTILIZATION* (1031198 X00); 12 MONTHS \$271,500

- HUMPHREY, ARTHUR E; *ENZYME SYSTEMS AND THEIR PRACTICAL UTILIZATION* (1031198 X01); 12 MONTHS \$2,900
 GRAVES, DAVID J; *RESEARCH INITIATION-PURIFICATION AND CONCENTRATION BY SELECTIVE COMPLEXING* (1031710); 18 MONTHS \$18,000
 ZANDI, IRAJ; *TECHNOLOGY FOR THE CONVERSION OF SOLAR ENERGY TO FUEL GAS* (1031191); 12 MONTHS \$196,000

RHODE ISLAND**BROWN UNIVERSITY**

- SIBULKIN, MERWIN; *FLAME SPREADING OVER SOLID SURFACES* (1031183 X00); 12 MONTHS \$33,400

TENNESSEE**OAK RIDGE NATIONAL LABORATORY**

- LIVERMAN, JAMES L; *ELECTRICAL ENERGY AND ITS ENVIRONMENTAL IMPACT* (AG003181); 12 MONTHS \$493,100
 ATOMIC ENERGY COMMISSION-OAK RIDGE OPERATIONS OFFICE-AEC
 LIVERMAN, J L, AND FRAAS, ARTHUR P; *POTASSIUM-STEAM BINARY VAPOR CYCLE* (AG003182); 12 MONTHS \$360,000

UTAH**UNIVERSITY OF UTAH**

- EINHORN, IRVING N; *THE PHYSIOLOGICAL AND TOXICOLOGICAL ASPECTS OF SMOKE PRODUCED DURING THE COMBUSTION OF POLYMERIC MATERIALS* (1031160); 12 MONTHS \$139,000
 CUTLER, IVAN B; *REFRACTORY MATERIALS FOR COAL FUELED M.H.D. POWER GENERATION* (1031183); 12 MONTHS \$81,200

VIRGINIA**INTERTECHNOLOGY CORPORATION**

- SZEGO, G C; *CONTRACT FOR A SYSTEMATIC ANALYSIS OF THE ENERGY PROBLEM WITHIN THE UNITED STATES* (C615000 001); 8 MONTHS \$93,419
 SZEGO, G C; *CONTRACT FOR A SYSTEMATIC ANALYSIS OF THE ENERGY PROBLEM WITHIN THE UNITED STATES* (C615000 002); 1 MONTHS \$40,000

UNIVERSITY OF VIRGINIA

- KIRWAN, DONALD J; *ENZYMATIC AND ELECTROCHEMICAL DESTRUCTION OF VIRUSES* (1031778); 12 MONTHS \$59,700

WASHINGTON**UNIVERSITY OF WASHINGTON**

- HENNES, ROBERT G, AND BOSTROM, ROBERT C; *DYNAMIC STABILITY OF EARTH STRUCTURES* (1031780); 24 MONTHS \$145,900
 HERNANDEZ, E NORMAN; *DEVELOPMENT OF MULTI-COLOR HIGH RESOLUTION DISTANCE MEASURING INSTRUMENTS* (1031154); 12 MONTHS \$245,700
 HENNES, R G; *INTERNATIONAL CONFERENCE ON MICROZONATION* (K031119*); 12 MONTHS \$33,000

WEST VIRGINIA**WEST VIRGINIA UNIVERSITY**

- BYRD, JACK JR; *RESEARCH INITIATION - DEVELOPMENT OF AN INTERACTIVE SIMULATION MODEL TO OBTAIN ENERGY DECISION MAKER PROFILES* (1031714); 18 MONTHS \$20,000

WISCONSIN**UNIVERSITY OF WISCONSIN, MADISON**

- DUFFIE, J A, AND BECKMAN, W A; *COMPUTER MODELING AND SIMULATION OF SOLAR HEATING AND COOLING SYSTEMS* (1031088); 18 MONTHS \$76,900

ENVIRONMENTAL SYSTEMS AND RESOURCES**ARIZONA****MUSEUM OF NORTHERN ARIZONA**

- WALTHER, ERIC G; *COLLABORATIVE RESEARCH ON THE CONSEQUENCES OF WATER MANAGEMENT AND RELATED ACTIVITIES IN THE LAKE POWELL REGION* (1031188); 12 MONTHS \$80,900

UNIVERSITY OF ARIZONA

- LEVY, JERROLD E; *COLLABORATIVE RESEARCH ON THE CONSEQUENCES OF WATER MANAGEMENT AND RELATED ACTIVITIES IN THE LAKE POWELL REGION* (1031188); 12 MONTHS \$87,500

CALIFORNIA**JOHN MUIR INST FOR ENVIRONMENTAL STUDIES INC**

- AITKEN, DONALD W, AND BEN-DAVID, SHAUL; *COLLABORATIVE RESEARCH ON THE CONSEQUENCES OF WATER MANAGEMENT AND RELATED ACTIVITIES IN THE LAKE POWELL REGION* (1031188); 12 MONTHS \$100,800

STANFORD RESEARCH INSTITUTE

HOPKINS, GEORGE D; TECHNOLOGY ASSESSMENT OF WINTER OROGRAPHIC SNOWPACK AUGMENTATION IN THE UPPER COLORADO RIVER BASIN (C011000 000); 4 MONTHS \$2,500

HOPKINS, GEORGE D; EXTENSION OF STUDY OF TECHNOLOGY ASSESSMENT OF WINTER OROGRAPHIC SNOWPACK AUGMENTATION IN THE UPPER COLORADO RIVER BASIN (C011000 003); 1 MONTHS \$29,700

UTHE, EDWARD E; METROMEX AEROSOL AND RADIATION EXPERIMENT (1031170); 12 MONTHS \$68,400

STANFORD UNIVERSITY

PARKS, GEORGE A; TRACE ELEMENTS IN WATER- ORIGIN, FATE, AND CONTROL (1032913); 18 MONTHS \$210,000

UNIVERSITY OF CALIFORNIA, DAVIS

GOLDMAN, CHARLES R; A RESEARCH PROGRAM IN THE LAKE TAHOE BASIN (1000081 001); 18 MONTHS \$561,100

WATT, KENNETH E F, AND BREWER, JOHN; LAND USE AND ENERGY FLOW IN HUMAN SOCIETY (1000087 001); 18 MONTHS \$384,800

UNIVERSITY OF CALIFORNIA, LOS ANGELES

ANDERSON, ORSON L; COLLABORATIVE RESEARCH ON ASSESSMENT OF MAN'S ACTIVITIES ON THE LAKE POWELL REGION (1032431 001); 8 MONTHS \$2,250

PERLOFF, HARVEY S; WORKSHOP/CONFERENCE ON RESEARCH NEEDS FOR LAND-USE PLANNING (1031136); 6 MONTHS \$11,000

PERLOFF, HARVEY S; WORKSHOP/CONFERENCE ON RESEARCH NEEDS FOR PLANNING DEVELOPMENT AND MANAGEMENT OF OUR PHYSICAL ENVIRONMENTS (1032900); 8 MONTHS \$74,100

PRICE, MONROE; COLLABORATIVE RESEARCH ON THE CONSEQUENCES OF WATER MANAGEMENT AND RELATED ACTIVITIES IN THE LAKE POWELL REGION (1031333); 12 MONTHS \$43,300

ANDERSON, ORSON L; COLLABORATIVE RESEARCH ON THE CONSEQUENCES OF WATER MANAGEMENT AND RELATED ACTIVITIES IN THE LAKE POWELL REGION (1031333); 12 MONTHS \$63,400

ANDERSON, ORSON L; COLLABORATIVE RESEARCH ON THE CONSEQUENCES OF WATER MANAGEMENT AND RELATED ACTIVITIES IN THE LAKE POWELL REGION (1031340); 12 MONTHS \$78,300

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PRATT, P F; NITRATE IN EFFLUENTS FROM IRRIGATED LANDS (1031733 X00); 12 MONTHS \$590,450

COLORADO

COLORADO STATE UNIVERSITY

GRANT, LEWIS O; PRECIPITATION AUGMENTATION FROM OROGRAPHIC CLOUDS (0311460); 12 MONTHS \$263,400

GRANT, LEWIS O, AND CORPIN, MYRON L; LABORATORY CLOUD SIMULATION TO SUPPORT WEATHER MODIFICATION RESEARCH AND FIELD PROGRAMS (1032824 X00); 12 MONTHS \$106,800

JAMESON, DONALD A; REGIONAL ANALYSIS OF GRASSLAND ENVIRONMENTAL SYSTEMS (1033470); 18 MONTHS \$250,300

EDWARDS, HARRY W; IMPACT ON MAN OF ENVIRONMENTAL CONTAMINATION CAUSED BY LEAD (0312113 X00); 12 MONTHS \$447,300

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

FIROR, JOHN W; CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH, BOULDER, COLORADO (C460000 003); 12 MONTHS \$1,810,000

FIROR, JOHN W; NATIONAL HAIL RESEARCH EXPERIMENT (C460000 006); 12 MONTHS \$580,000

UNIVERSITY OF COLORADO

CHAPPELL, WILLARD R, AND JORDEN, ROGER; TRANSPORT AND THE BIOLOGICAL EFFECTS OF MOLYBDENUM IN THE ENVIRONMENT (1031211 X00); 12 MONTHS \$290,000

UNIVERSITY OF DENVER

UPDEGRAFF, DAVID M; THE BIODEGRADABILITY AND ECOLOGICAL EFFECTS OF ORGANIC WEATHER MODIFICATION AGENTS (1033037); 12 MONTHS \$28,100

SCHMIDT-COLLERUS, JOSEF J; THE DISPOSAL AND ENVIRONMENTAL EFFECTS OF CARBONACEOUS SOLID WASTES FROM COMMERCIAL OIL SHALE OPERATIONS (1031482 X00); 12 MONTHS \$96,200

DELAWARE

UNIVERSITY OF DELAWARE

WHIPPLE, WM JR, AND PATRICK, RUTH; THE DELAWARE ESTUARY SYSTEM, ENVIRONMENTAL IMPACTS AND SOCIO-ECONOMIC EFFECTS (1033389); 18 MONTHS \$370,000

DISTRICT OF COLUMBIA

ASSOCIATED COLLEGIATE SCHOOLS OF ARCHITECTURE

BURCHARD, CHARLES; A RESEARCH WORKSHOP FOR ENVIRONMENTAL DESIGN FACULTY (1031458); 6 MONTHS \$17,300

DEPARTMENT OF AGRICULTURE

BOONE, LARRY M; ECONOMIC AND INSTITUTIONAL CONSIDERATIONS OF SUPPRESSING HAIL (AG00075); 12 MONTHS \$50,000

NATIONAL ACADEMY OF SCIENCES

BOVE, ALBERT N; SUBCOMMITTEE ON THE GEOCHEMICAL ENVIRONMENT IN RELATION TO HEALTH AND DISEASE (C210704 001); 18 MONTHS \$62,600

SMITHSONIAN INSTITUTION

WILLIAMSON, FRANCIS S L; INTERDISCIPLINARY RESEARCH ON A WATERSHED-ESTUARINE SYSTEM OF THE CHESAPEAKE BAY (1032108); 7 MONTHS \$41,100

DEPARTMENT OF NAVY-AIR SYSTEMS COMMAND

WILLIAMS, BEN; REPAIRS FOR T-28 AIRCRAFT N310MH BY NAVAL AIR REWORK FACILITY, PENSACOLA, FLORIDA (CA81000); 6 MONTHS \$40,600

FLORIDA

UNIVERSITY OF SOUTH FLORIDA

BRAMAN, ROBERT S; STUDIES OF THE MOLECULARITY AND REACTIONS OF SELECTED HEAVY METALS IN THE ENVIRONMENT (1031794 X00); 12 MONTHS \$37,500

GEORGIA

COASTAL STATES ORGANIZATION

HARGIS, WILLIAM O JR; COASTAL STATES ORGANIZATION CONFERENCE (1030322); 4 MONTHS \$3,500

ILLINOIS

IIT RESEARCH INSTITUTE

STAKE, A M, AND ZERLAUT, O A; A FEASIBILITY STUDY OF EVAPORATION SUPPRESSANTS FOR CLOUD AND FOG MODIFICATION (C749110); 12 MONTHS \$37,100

UNIVERSITY OF CHICAGO

FUJITA, T THEODORE; BASIC RESEARCH ON TORNADOES RELEVANT TO THEIR MODIFICATION (1030778); 24 MONTHS \$56,400

TOLLEY, GEORGE S; ENVIRONMENTAL POLLUTANTS AND THE URBAN ECONOMY (1032828); 18 MONTHS \$314,700

BRAHAM, ROSCOE R JR; INADVERTENT WEATHER MODIFICATION IN THE ST. LOUIS AREA (1033313); 12 MONTHS \$190,400

UNIVERSITY OF ILLINOIS AT URBANA

METCALF, ROBERT L, AND EWING, BEN B; INTERDISCIPLINARY STUDY OF ENVIRONMENTAL POLLUTION BY LEAD (1000026 001); 1 MONTHS \$18,000

LAITINEN, H A; AN INTERDISCIPLINARY STUDY OF ENVIRONMENTAL POLLUTION BY LEAD AND OTHER METALS (1031605); 18 MONTHS \$96,000

CHANGNON, STANLEY A JR; FIELD STUDY OF URBAN EFFECTS ON PRECIPITATION AND SEVERE WEATHER AT ST. LOUIS (1033371); 12 MONTHS \$144,200

CHANGNON, STANLEY A JR; RESEARCH COORDINATION OF METROMEX- A STUDY OF URBAN EFFECTS ON WEATHER AND RAINFALL (1031797); 12 MONTHS \$65,800

ATOMIC ENERGY COMMISSION-CHICAGO OPERATIONS OFFICE-AEC
CROKE, KEVIN; ENVIRONMENTAL POLLUTANTS AND THE URBAN ECONOMY (AG00332); 15 MONTHS \$230,000

IOWA

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

HEADY, EARL O; NATIONAL ENVIRONMENTAL MODELS OF AGRICULTURAL POLICY, LAND USE AND WATER QUALITY (1032970); 24 MONTHS \$568,700

MARYLAND

JOHNS HOPKINS UNIVERSITY

SELIGER, HOWARD H; INTERDISCIPLINARY RESEARCH ON A WATERSHED-ESTUARINE SYSTEM OF THE CHESAPEAKE BAY (1032110); 7 MONTHS \$62,600

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

PHILLIPS, BYRON B; SURFACE AREAL-TEMPORAL HAIL AND RAINFALL STUDY WITHIN THE NATIONAL HAIL RESEARCH EXPERIMENT (A000237 001); 18 MONTHS \$99,300

UNIVERSITY OF MARYLAND, COLLEGE PARK

CORLISS, JOHN O; INTERDISCIPLINARY RESEARCH ON A WATERSHED-ESTUARINE SYSTEM OF THE CHESAPEAKE BAY (1032108); 7 MONTHS \$23,650

MASSACHUSETTS

BOSTON UNIVERSITY

DOWNING, DAVID R; RESEARCH INITIATION - MODELING AND

ANALYSIS OF A SALT MARSH ECOSYSTEM SUBJECTED TO NUTRIENT ADDITIONS (1041714); 18 MONTHS \$20,000

HARVARD UNIVERSITY

STEINITZ, CARL F., ROGERS, PETER, AND TOTH, RICHARD; *THE INTERACTION BETWEEN URBANIZATION AND LAND-QUALITY AND QUANTITY IN ENVIRONMENTAL PLANNING AND DESIGN* (1032660); 12 MONTHS \$251,800

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

MOORE, STEPHEN F.; *RESEARCH INITIATION - DATA-MODEL INTERACTIONS, A RATIONAL BASIS FOR WATER QUALITY MONITORING PROGRAMS* (1041717); 18 MONTHS \$16,000

WOODS HOLE OCEANOGRAPHIC INSTITUTION

KETCHUM, BOSTWICK H.; *THE STUDY OF THE CRITICAL PROBLEMS OF THE COASTAL ZONE* (1041758); 12 MONTHS \$123,800

RYTHER, JOHN H.; *THE USE OF FLOWING BIOLOGICAL SYSTEMS IN AQUACULTURE, SEWAGE TREATMENT, POLLUTION ASSAY, AND FOOD-CHAIN STUDIES* (1038140); 24 MONTHS \$672,000

MICHIGAN

UNIVERSITY OF MICHIGAN

KOENIG, HERMAN E.; *ECOSYSTEM DESIGN AND MANAGEMENT* (1000080 001); 24 MONTHS \$900,000

RANEY, R. KEITH; *APPLICATION OF REMOTE SENSING TECHNOLOGY TO ENVIRONMENTAL PLANNING AND PUBLIC POLICY FORMULATION* (1034009 X00); 18 MONTHS \$371,600

KADLEC, JOHN A. AND KADLEC, ROBERT H.; *THE EFFECTS OF SEWAGE EFFLUENT ON WETLAND ECOSYSTEMS* (1034118 X00); 12 MONTHS \$134,600

PADDOCK, MARK W.; *ENVIRONMENTAL IMPACT BY MAN ON NON-URBAN REGIONS* (1041888); 18 MONTHS \$130,000

ZISSIS, GEORGE J.; *ASSESSING THE IMPACT OF REMOTE SENSING OF THE ENVIRONMENT* (1041818); 18 MONTHS \$141,600

MISSOURI

UNIVERSITY OF MISSOURI, COLUMBIA

HEMPHILL, DELBERT D.; *SIXTH ANNUAL CONFERENCE ON TRACE SUBSTANCES IN ENVIRONMENTAL HEALTH* (1009901 001); 12 MONTHS \$15,900

WASHINGTON UNIVERSITY

KOHL, DANIEL H. AND COMMONER, BARRY; *A STUDY OF CERTAIN ECOLOGICAL, PUBLIC HEALTH AND ECONOMIC CONSEQUENCES OF THE USE OF INORGANIC NITROGEN FERTILIZER* (1009928 X01); 12 MONTHS \$234,800

MONTANA

MONTANA STATE UNIVERSITY

JEZESKI, JAMES J.; *THE IMPACT OF A LARGE RECREATIONAL DEVELOPMENT UPON A SEMI-PRIMITIVE ENVIRONMENT - A CASE STUDY* (1009908 X01); 12 MONTHS \$240,900

NEBRASKA

CHADRON STATE COLLEGE

STRUEMPLER, ARTHUR W.; *THE ANALYSIS OF SILVER IN PRECIPITATION BY THE FLAMELESS GRAPHITE FURNACE METHOD* (1038256); 12 MONTHS \$12,200

NEVADA

DESERT RESEARCH INSTITUTE

STEELE, ROGER L.; *SEQUENCE EFFECTS OF HETEROGENEOUS NUCLEATION* (1034907); 12 MONTHS \$69,200

NEW HAMPSHIRE

DARTMOUTH COLLEGE

REYNOLDS, ROBERT C., JOHNSON, NOY M. AND DRAKE, CHARLES L.; *ASSESSMENT OF MAN'S ACTIVITIES ON LAKE POWELL REGION* (1001181 001); 1 MONTHS \$1,265

JOHNSON, NOYE M. AND REYNOLDS, ROBERT; *COLLABORATIVE RESEARCH ON THE CONSEQUENCES OF WATER MANAGEMENT AND RELATED ACTIVITIES IN THE LAKE POWELL REGION* (1034439); 12 MONTHS \$102,000

DARTMOUTH COLLEGE-THAYER SCHOOL OF ENGINEERING

MEADOWS, DENNIS L.; *LONG-TERM NATURAL RESOURCE AVAILABILITY-ENVIRONMENTAL AND POLICY IMPLICATIONS IN THE U.S.* (1034908 X00); 12 MONTHS \$123,000

NEW MEXICO

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

MOORE, CHARLES B., COLGATE, STIRLING A., HOLMES, CHARLES R.

AND WINN, WILLIAM P.; *RESEARCH INTO CLOUD ELECTRIFICATION AND ITS MODIFICATION* (1033378 X00); 12 MONTHS \$188,700

UNIVERSITY OF NEW MEXICO

POTTER, LOREN D. AND KIDD, DAVID E.; *COLLABORATIVE RESEARCH ON THE CONSEQUENCES OF WATER MANAGEMENT AND RELATED ACTIVITIES IN THE LAKE POWELL REGION* (1034431); 12 MONTHS \$146,000

NEW YORK

STATE UNIVERSITY AT ALBANY

CHESSIN, HENRY, AND VONNEGUT, BERNARD; *DEVELOPMENT OF CLOUD SEEDING TECHNOLOGY UTILIZING MODIFIED AGI STRUCTURES* (1034752); 12 MONTHS \$35,400

UNIVERSITY OF ROCHESTER

CLARKSON, THOMAS W.; *METHYL MERCURY AND RELATED COMPOUNDS AS ENVIRONMENTAL HAZARDS TO MAN* (1030097 X00); 8 MONTHS \$33,000

KUNITZ, STEVEN J.; *COLLABORATIVE RESEARCH ON THE CONSEQUENCES OF WATER MANAGEMENT AND RELATED ACTIVITIES IN THE LAKE POWELL REGION* (1034437); 12 MONTHS \$16,000

UNIVERSITY OF ROCHESTER-SCHOOL OF MEDICINE AND DENTISTRY

CLARKSON, THOMAS W.; *METHYL MERCURY AND RELATED COMPOUNDS AS ENVIRONMENTAL HAZARDS TO MAN* (1030097 X00); 12 MONTHS \$393,900

NORTH CAROLINA

RESEARCH TRIANGLE INSTITUTE

VUKOVICH, FRED M.; *ON OPTIMUM METEOROLOGICAL AND AIR POLLUTION SAMPLING SITE SELECTION IN URBAN AREAS* (1034345); 12 MONTHS \$132,600

OHIO

CASE WESTERN RESERVE UNIVERSITY

HAIMES, YACOV Y. AND MESAROVIC, MIHAJLO; *MULTILEVEL APPROACH FOR REGIONAL WATER RESOURCE PLANNING AND MANAGEMENT* (1034088); 24 MONTHS \$69,700

OREGON

OREGON STATE UNIVERSITY

HEWSON, E. WENDELL, AND GAY, LLOYD; *DOCTORAL DISSERTATION RESEARCH IN THE ENVIRONMENTAL SCIENCES* (1034745*); 12 MONTHS \$4,000

SLOTTA, LARRY S., BELLA, DAVID, AND SCHAUMBURG, FRANK; *DREDGE SPOIL DISTRIBUTION AND ESTUARINE EFFECTS* (1034348); 18 MONTHS \$269,400

PENNSYLVANIA

UNIVERSITY OF PITTSBURGH

OCHS, JACK; *FINANCING IN SOLID WASTE MANAGEMENT DESIGN* (1033616); 14 MONTHS \$25,600

SOUTH DAKOTA

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

DENNIS, ARNETT S.; *NUMERICAL ANALYSIS OF PROPOSED HAIL SUPPRESSION CONCEPTS* (1030114); 24 MONTHS \$86,300

DAVIS, BRIANT L.; *CHEMICAL COMPLEXING OF SILVER IODIDE-ALKALI IODIDE AEROSOLS PREPARED FOR CLOUD SEEDING PURPOSES* (1034306); 24 MONTHS \$109,900

TENNESSEE

OAK RIDGE NATIONAL LABORATORY

LIVERMAN, JAMES L.; *ENVIRONMENTAL QUALITY INDICES* (1000390); 12 MONTHS \$100,000

LIVERMAN, JAMES L.; *AN ANALYSIS OF A REGIONAL ENVIRONMENTAL SYSTEM* (1000391); 12 MONTHS \$490,000

LIVERMAN, JAMES L.; *INTEGRATION OF PROBLEM-ORIENTED ENVIRONMENTAL RESEARCH* (1000393); 12 MONTHS \$90,000

ATOMIC ENERGY COMMISSION-OAK RIDGE OPERATIONS OFFICE-AEC LIVERMAN, JAMES L.; *ECOLOGY AND ANALYSIS OF TRACE CONTAMINANTS* (1000388); 12 MONTHS \$1,247,600

TEXAS

SOUTHERN METHODIST UNIVERSITY

TAUBENFELD, HOWARD J.; *STUDY GROUP ON THE SOCIETAL CONSEQUENCES OF WEATHER MODIFICATION* (1031439 X00); 12 MONTHS \$60,500

UNIV OF TEXAS AT AUSTIN

SAGIK, BERNARD P.; *VIRUSES, SEWAGE AND TERRESTRIAL WASTE DISPOSAL* (1034488 X00); 12 MONTHS \$147,300

FRUH, OUS; ESTABLISHMENT OF OPERATIONAL GUIDELINES FOR TEXAS COASTAL ZONE MANAGEMENT (1034870 X00); 12 MONTHS \$239,000

UNIVERSITY OF HOUSTON

THOMPSON, RUSSELL G; NATIONAL ECONOMIC MODELS OF INDUSTRIAL WATER USE AND WASTE TREATMENT (1034458); 12 MONTHS \$263,900

VIRGINIA

CHESAPEAKE RESEARCH CONSORTIUM INC

HARGIS, WILLIAM J JR; CHESAPEAKE BAY RESEARCH (1034868); 12 MONTHS \$1,499,300

VIRGINIA POLYTECHNIC INSTITUTE

WALKER, WILLIAM R; DEEP WELL DISPOSAL (1034815); 18 MONTHS \$94,300

WASHINGTON

UNIVERSITY OF WASHINGTON

HOBBS, PETER V; RESEARCH IN CLOUD PHYSICS AND WEATHER MODIFICATION (1031739); 18 MONTHS \$145,000

CARPENTER, ROY; GEOCHEMISTRIES OF MERCURY, ARSENIC, AND OTHER METALS IN PUGET SOUND (1034425 X00); 12 MONTHS \$38,500

BETHEL, JAMES S; MODELS OF THE FOREST ECOSYSTEM OF THE SNOHOMISH RIVER DRAINAGE BASIN (1034480); 12 MONTHS \$151,800

BATTELLE MEMORIAL INSTITUTE-BATTELLE NORTHWEST

PERKINS, RICHARD W; FEASIBILITY STUDY OF THE USE OF INERT TRACERS IN THE NATIONAL HAIL RESEARCH EXPERIMENT (AG00379); 12 MONTHS \$58,000

WISCONSIN

INSTITUTE OF ECOLOGY

STEARNS, FOREST; URBAN ECOSYSTEM STUDIES (1034997); 1 MONTHS \$10,000

UNIVERSITY OF WISCONSIN, MADISON

ANDERSON, C E; LABORATORY STUDIES OF ICE NUCLEI INHIBITORS (1031058); 12 MONTHS \$47,800

ANDERSON, C E, AND SIKDAR, D N; STUDY OF THE FEATURES AND ENERGY BUDGETS OF NORTHEASTERN COLORADO HAILSTORMS (1031878 X00); 12 MONTHS \$97,500

WYOMING

UNIVERSITY OF WYOMING

VEAL, DONALD L; DEVELOPMENT OF LEAF-DERIVED ICE NUCLEI FOR WEATHER MODIFICATION (1031555 X00); 12 MONTHS \$68,000

SOCIAL SYSTEMS AND HUMAN RESOURCES

CALIFORNIA

RAND CORPORATION

LEVINE, ROBERT A; URBAN POLICY ANALYSIS (1029763 001); 8 MONTHS \$61,500

LEVINE, ROBERT A; PROJECTS IN SYSTEMATIC ANALYSIS OF URBAN POLICY (1029763 002); 12 MONTHS \$1,015,700

STANFORD UNIVERSITY

LUSIGNAN, BRUCE B; JOINT MISSION COALITION ORGANIZATION/STANFORD UNIVERSITY COMMUNITY (1029925 X01); 12 MONTHS \$261,200

UNIVERSITY OF CALIFORNIA, BERKELEY

STONEBRAKER, MICHAEL R; RESEARCH INITIATION-USE OF ENGINEERING SYSTEMS CONCEPTS FOR JOB SCHEDULING IN CRIMINAL JUSTICE SYSTEMS (1032716); 18 MONTHS \$20,000

UNIVERSITY OF CALIFORNIA, DAVIS

MCEVOY, JAMES III, AND MUSOLF, LLOYD D; ENVIRONMENTAL DECISION MAKING IN THE LAKE TAHOE BASIN (1000022 002); 7 MONTHS \$100,000

COLORADO

UNIVERSITY OF COLORADO

HAAS, EUGENE, AND WHITE, GILBERT; ASSESSMENT OF RESEARCH ON NATURAL HAZARDS (1032942); 26 MONTHS \$723,900

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (102AWDS); \$882

AMERICAN COUNCIL ON EDUCATION

ASTIN, ALEXANDER W, AND BAYER, ALAN E; IMPACT OF ALTERNATIVE INSTITUTIONAL STRUCTURES ON THE OUTPUTS OF THE HIGHER EDUCATION SYSTEM (1034494); 18 MONTHS \$529,200

AMERICAN REVOLUTION BICENTENNIAL COMMISSION

HULCHER, WENDELL E; KEY ASPECTS OF AMERICAN FEDERALISM (7000011*); 6 MONTHS \$10,000

FLORIDA

FLORIDA ATLANTIC UNIVERSITY

CATALDO, EVERETT F; DETERMINANTS OF RESEGREGATION- REJECTION COMPLIANCE BEHAVIOR AND POLICY ALTERNATIVES (1034855); 15 MONTHS \$549,600

GEORGIA

UNIVERSITY OF GEORGIA

LEE, EVERETT S, AND TARVER, JAMES D; POPULATION REDISTRIBUTION- A CHALLENGE FOR POLICY AND PLANNING (1034856); 18 MONTHS \$477,300

ILLINOIS

CENTER FOR RESEARCH LIBRARIES

WILLIAMS, GORDON, AND BERESFORD, JOHN C; CENSUS LABORATORY AND CLEARINGHOUSE (1034198); 18 MONTHS \$786,300

NATIONAL OPINION RESEARCH CENTER

DAVIS, JAMES A; A NATIONAL EVALUATION OF COMMUNITY SERVICES (1034784); 18 MONTHS \$983,400

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

KAHN, ALFRED; A STUDY OF CARBON MONOXIDE IN THE ST. LOUIS METROPOLITAN AREA AND SOME IMPLICATIONS FOR SOCIAL AND PLANNING POLICY (1029900 001); 18 MONTHS \$93,900

LOUISIANA

SOUTHERN UNIVERSITY

STEPTOE, ROOSEVELT; SOCIAL, ECONOMIC AND POLITICAL IMPACTS OF THE SCOTLANDVILLE BY-PASS (1034863); 12 MONTHS \$95,200

NEW YORK

COLUMBIA UNIVERSITY

BARTON, ALLEN H, AND SIEBER, SAM D; NEIGHBORHOOD GOVERNMENT AND THE QUALITY OF URBAN LIFE- EVALUATION OF AN EXPERIMENT IN DECENTRALIZATION (1031837); 36 MONTHS \$1,443,100

STATE UNIVERSITY AT STONY BROOK

NATHANS, ROBERT; POLICY RESEARCH ON URBAN PROBLEMS (1034844 X00); 12 MONTHS \$332,700

NORTH CAROLINA

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

STEGMAN, MICHAEL A; THE DYNAMICS OF NON-METROPOLITAN URBAN RENTAL HOUSING MARKETS- A COMPARATIVE ANALYSIS (1034848); 36 MONTHS \$325,400

WEISS, SHIRLEY F; PERFORMANCE CRITERIA FOR NEW COMMUNITY DEVELOPMENT- EVALUATION AND PROGNOSIS (1034883); 32 MONTHS \$1,179,400

PENNSYLVANIA

UNIVERSITY OF PENNSYLVANIA

WOLFGANG, MARVIN E; EVALUATION OF RESEARCH AND THEORY IN CRIMINOLOGY (1034810); 24 MONTHS \$578,200

TENNESSEE

KNOXVILLE COLLEGE

MCARTHUR, WILLIAM H; AN INTERDISCIPLINARY ASSESSMENT OF THE TRADITIONALLY NEGRO INSTITUTIONS CAPABILITIES (1032509); 15 MONTHS \$97,990

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

FEATHERMAN, DAVID L, AND HAUSER, ROBERT M; OCCUPATIONAL CHANGES IN A GENERATION II (1031801 X00); 24 MONTHS \$888,300

EXPLORATORY RESEARCH AND PROBLEM ASSESSMENT

CALIFORNIA

RAND CORPORATION

JUNCOSA, MAKIO L, AND TURN, REIN; RESEARCH IN PROTECTION OF PRIVACY OF PERSONAL INFORMATION IN DATA BANKS- THEORETICAL AND TECHNICAL ASPECTS (1029945 001); 12 MONTHS \$110,900

BAER, WALTER S; CABLE TV- RESEARCH AND PROBLEM ASSESSMENT FOR FRANCHISE DECISION-MAKING (1032107); 11 MONTHS \$267,000

HULT, JOHN L, AND OSTRANDER, NEILL C; A FEASIBILITY STUDY OF POLAR ICE AS A FRESH WATER RESOURCE (1034981); 9 MONTHS \$49,900

UNIVERSITY OF SOUTHERN CALIFORNIA

EMPEY, LAMAR T; SOCIAL AND CULTURAL CONTEXTS OF AGING- IMPLICATIONS FOR SOCIAL POLICY (1034853 X00); 12 MONTHS \$277,800

NATIONAL RESEARCH CENTERS

NATIONAL RADIO ASTRONOMY OBSERVATORY

CALIFORNIA

STANFORD RESEARCH INSTITUTE

PRESNELL, RONALD; OPERATION AND MAINTENANCE OF NRAO, (NSF-C450) (C704000); 4 MONTHS \$124,126

DISTRICT OF COLUMBIA

DEPARTMENT OF ARMY-CORPS OF ENGINEERS

BANNISTER, WILLIAM; INTERAGENCY AGREEMENT WITH THE U.S. ARMY CORPS OF ENGINEERS FOR THE LAND ACQUISITION SERVICES FOR THE VLA (NRAO-C450) (CA80000); 36 MONTHS \$20,000

WEST VIRGINIA

NATIONAL RADIO ASTRONOMY OBSERVATORY

HEESCHEN, D S; OPERATION AND MAINTENANCE OF NRAO, NSF-C450 (C450000 089); 12 MONTHS \$4,300,000

HEESCHEN, D S; OPERATION AND MAINTENANCE OF NRAO, NSF-C450 (C450000 091); \$225,874

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

ARIZONA

DEPARTMENT OF ARMY-ELECTRONIC PROVING GROUND

DIXON, K; INTERAGENCY AGREEMENT WITH U.S. ARMY TEST AND EVALUATION COMMAND TO PROVIDE ASSISTANCE IN CHECKING OUT AN INFRARED LINE SCANNER INSTALLED IN ONE OF THE QUEEN AIR AIRCRAFT CONTRACT NSF-C460 (NCAR) (CA60000); 12 MONTHS \$1,410

CALIFORNIA

UNIVERSITY OF CALIFORNIA, SAN DIEGO

NIERENBERG, WILLIAM A; DRILLING OF SEDIMENTS IN THE PACIFIC AND ATLANTIC OCEANS AND ADJACENT SEAS, NSF-C480 (CA80000 097); \$132,199

COLORADO

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

FIROR, JOHN W; CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (C660000); 12 MONTHS \$3,600,000

FIROR, JOHN W; OPERATION AND MAINTENANCE OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (C660) (C660000 008); \$12,003,040

FIROR, JOHN W; OPERATION AND MAINTENANCE OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH, NSF-C-660 (C660000 004); \$4,889,460

FIROR, JOHN W; FUND JOINT EVALUATION COMMITTEE (NCAR), NSF-C660 (C660000 011); \$25,000

FIROR, JOHN W; 1973 SOLAR ECLIPSE COORDINATION - NATIONAL CENTERS FOR ATMOSPHERIC RESEARCH, NSF-C660 (C660000 012); \$7,545

FIROR, JOHN W; CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (NSF-C660) (C660000 014); \$2,073,604

FIROR, JOHN W; NATIONAL CENTER FOR ATMOSPHERIC RESEARCH, NSF-C660 (C780000); 60 MONTHS \$338,025

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (GAWDS); \$2,876

DEPARTMENT OF ARMY-CORPS OF ENGINEERS

COLES, R; INTERAGENCY AGREEMENT FOR PROVIDING IN-PLANT INSPECTION (CA05600 001); \$67

MATHERS, BRYANT; INTERAGENCY AGREEMENT FOR INVESTIGATION, TESTING AND ANALYSIS OF THE CONCRETE IN THE NCAR BUILDING (CA05600 009); \$934

MATHERS, BRYANT DR; INTERAGENCY AGREEMENT FOR INVESTIGATION, TESTING AND ANALYSIS OF THE CONCRETE IN THE NCAR BUILDING (CA59000 001); 12 MONTHS \$1,000

DEPARTMENT OF NAVY-AIR SYSTEMS COMMAND

TUTHILL, J R; INTERAGENCY AGREEMENT FOR OVERHAUL OF T41-GE-10 ENGINE FROM DEHAVILLAND BUFFALO AIRCRAFT (UNDER CONTRACT NSF-C-460-NCAR) (CA18000 001); 12 MONTHS \$14,000

KITT PEAK NATIONAL OBSERVATORY

ARIZONA

KITT PEAK NATIONAL OBSERVATORY

MAYALL, NICHOLAS U; CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE KITT PEAK NATIONAL OBSERVATORY, TUCSON, ARIZONA (C400000 017); 12 MONTHS \$1,800,000

GOLDBERG, LEO; CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE KITT PEAK NATIONAL OBSERVATORY (C400000 018); \$5,615,000

GOLDBERG, LEO; OPERATION AND MAINTENANCE OF THE KITT PEAK NATIONAL OBSERVATORY, NSF-C400 (C400000 018); \$385,000

CERRO TOLOLO INTER-AMERICAN OBSERVATORY

CERRO TOLOLO INTER-AMERICAN OBSERVATORY

MAYALL, NICHOLAS U; CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE CERRO TOLOLO INTER-AMERICAN OBSERVATORY, LA SERENA, CHILE (C345000 014); 12 MONTHS \$600,000

GOLDBERG, LEO; CONTRACT FOR THE MANAGEMENT, OPERATION, AND MAINTENANCE OF THE CERRO TOLOLO INTER-AMERICAN OBSERVATORY, LA SERENA, CHILE (C345000 015); \$1,775,000

GOLDBERG, LEO; OPERATION AND MAINTENANCE OF THE CERRO TOLOLO INTER-AMERICAN OBSERVATORY, LA SERENA, CHILE, NSF-C345 (C345000 016); \$125,000

NAT'L ASTRONOMY AND IONOSPHERIC CNTR AT ARECIBO

DISTRICT OF COLUMBIA

DEPARTMENT OF NAVY-NAVAL FACILITIES ENGINEERING COMMAND

DORAN, MAURICE P; PROCUREMENT OF ELECTRIC SERVICES FOR THE NATIONAL ASTRONOMY AND IONOSPHERE CENTER AT ARECIBO, PUERTO RICO, CONTRACT NSF-C600 (CA91000 003); 12 MONTHS \$52,000

PUERTO RICO

ARECIBO OBSERVATORY

HAGFORS, TOR; OPERATION AND MAINTENANCE OF NATIONAL ASTRONOMY AND IONOSPHERE CENTER AT ARECIBO UNDER NSF-C600 (C600000 013); \$3,800,000

HAGFORS, TOR; OPERATION AND MAINTENANCE OF NATIONAL ASTRONOMY AND IONOSPHERE CENTER AT ARECIBO UNDER NSF-C600 (C600000 015); \$123,000

HAGFORS, TORS; OPERATION AND MAINTENANCE OF NATIONAL ASTRONOMY AND IONOSPHERE CENTER AT ARECIBO UNDER NSF-C600 (C600000 016); \$687,500

DEPARTMENT OF AIR FORCE-RAMBY AIR FORCE BASE

CLARK, KENNETH B; SERVICES TO PERSONNEL AND DEPENDENTS RESIDENT AT ARECIBO, NSF-C600 (CA66000); 60 MONTHS \$25,000

1973 SOLAR ECLIPSE COORDINATION

COLORADO

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

FIROR, JOHN W; 1973 SOLAR ECLIPSE COORDINATION - NATIONAL
CENTERS FOR ATMOSPHERIC RESEARCH, NSF-C660 (C660000 007);
\$44,500

FIROR, JOHN W; 1973 SOLAR ECLIPSE COORDINATION - NATIONAL
CENTERS FOR ATMOSPHERIC RESEARCH, NSF-C660 (C660000 018⁹);
\$2,173

FIROR, JOHN W; 1973 SOLAR ECLIPSE COORDINATION - NATIONAL
CENTER FOR ATMOSPHERIC RESEARCH, NSF-C160 (C660000 017); \$2,200

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (02AWDS); \$2,303

MARYLAND

NONE; OTHER PROGRAM AWARDS (03AWDS); \$2,315

NEW YORK

NONE; OTHER PROGRAM AWARDS (01AWDS); \$285

VIRGINIA

NONE; OTHER PROGRAM AWARDS (04AWDS); \$1,544

NATIONAL, INTERNATIONAL, AND SPECIAL RESEARCH PROGRAMS

SPECIAL PROJECTS

NONE; OTHER PROGRAM AWARDS (OIAWDS), \$8,000

ANTARCTIC RESEARCH PROGRAMS

SCIENCE PROGRAMS

ALASKA

UNIVERSITY OF ALASKA

HESSLER, V P, AND HEACOCK, R R; *EXTRALOW FREQUENCY STUDIES AT THE GEOMAGNETIC POLES* (V021812); 12 MONTHS \$32,900

UNIVERSITY OF ALASKA-GEOPHYSICAL INSTITUTE

WESCOTT, EUGENE M, AND NIELSEN, HANS C B; *INVESTIGATION OF AURORAL CONJUGACY* (V022809 001*); 6 MONTHS \$19,900
AKASOFU, SYUN-ICHI; *A STUDY OF THE MIDDAY AURORAS AT THE SOUTH POLE STATION* (V022835 001); 12 MONTHS \$18,200

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

CAMERON, ROY E; *ECOLOGY OF ANTARCTIC MICROORGANISMS* (C333000 005); \$25,000

MCDONNELL DOUGLAS AERONAUTICS COMPANY

MASLEY, A J; *CONTRACT FOR OPERATION OF THE CONJUGATE POINT RIOMETER PROGRAM* (C193000 006*); 12 MONTHS \$23,044

SAN DIEGO NATURAL HISTORY MUSEUM

JEHL, JOSEPH R JR; *COMPARATIVE STUDIES OF OCEANIC BIRDS IN CHILE AND ARGENTINA IN THE AUSTRAL WINTER* (V031738); 24 MONTHS \$20,300

STANFORD RESEARCH INSTITUTE

BATES, HOWARD F, AND HODGES, JAMES C; *POLAR AURORAL RADAR INVESTIGATION AT MCMURDO BASE* (V031808); 12 MONTHS \$48,600

STANFORD UNIVERSITY

HELLIWELL, R A; *VLF PROGRAM IN THE ANTARCTIC* (V022810 X01); 12 MONTHS \$225,200

UNIVERSITY OF CALIFORNIA, DAVIS

STRONG, FRANK E; *BIOENERGETICS OF AN ANTARCTIC ECOSYSTEM* (V021211 001); 12 MONTHS \$22,600

LIPPS, JERE H; *BIOLOGY AND ECOLOGY OF SHALLOW-WATER BENTHIC FORAMINIFERA, ANTARCTIC PENINSULA* (V031162); 24 MONTHS \$39,800

UNIVERSITY OF CALIFORNIA, LOS ANGELES

BLICHTER, LOUIS B, AND KNOPOFF, LEON; *RESEARCH IN SOLID-EARTH GEOPHYSICS AT SOUTH POLE* (V022011 001); 12 MONTHS \$88,800

KNOPOFF, LEON; *SEISMOLOGICAL STUDIES IN ANTARCTICA* (V011116); 14 MONTHS \$48,000

UNIVERSITY OF SOUTHERN CALIFORNIA

BANDY, ORVILLE L; *ANTARCTIC PALEOCEANOGRAPHY AND PALEOBATHYMETRY* (V021718 002); 12 MONTHS \$15,200

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

ELSNER, ROBERT W; *TEMPERATURE REGULATION IN THE NEW-BORN WEDDELL SEAL, 'LEPTONYCHOTES WEDDELLI'* (V023389 001); 12 MONTHS \$34,200

KOQYMAN, GERALD L; *BIOLOGY OF DEEP DIVING IN ANTARCTIC BIRDS AND MAMMALS* (V021218 002); 12 MONTHS \$40,600

HOLM-HANSEN, O, CARLUCCI, ANGELO F, AND WILLIAMS, PETER M; *THE DISTRIBUTION, BIOCHEMICAL ACTIVITY, AND CHEMICAL COMPOSITION OF PLANKTON IN ANTARCTIC WATERS* (V021110 001); 12 MONTHS \$34,000

DAYTON, PAUL K; *BIOLOGICAL INTERACTIONS STRUCTURING AN-ARTIC MARINE COMMUNITIES* (V032311); 24 MONTHS \$53,900

FOSTER, THEODORE D; *WEDDELL SEA OCEANOGRAPHIC INVESTIGATION* (V031905); 12 MONTHS \$125,100

DEPARTMENT OF NAVY-NAVAL UNDERSEA RESEARCH & DEVELOPMENT CENTER

CUMMINGS, WILLIAM C; *BIOACOUSTICS AND RELATED BEHAVIOR OF SUBANTARCTIC CETACEANS* (A200241 001); \$25,700

LOCKHEED AIRCRAFT CORPORATION-LOCKHEED RESEARCH LABORATORY

MENDE, S B; *SOUTH POLE PHOTOMETRIC EXPERIMENT* (C439000 001); 12 MONTHS \$67,000

COLORADO

COLORADO SCHOOL OF MINES

HADSELL, FRANK; *SUPPORT OF GEOPHYSICAL STUDIES* (V032738); 12 MONTHS \$5,200

UNIVERSITY OF COLORADO

LEMASURIER, WESLEY E; *LABORATORY STUDY OF VOLCANIC ROCKS FROM MARIE BYRD LAND, ANTARCTICA* (V025388 001); 12 MONTHS \$10,000

DISTRICT OF COLUMBIA

GEOLOGICAL SURVEY

RADLINSKI, WM A; *PROGRAM FOR ANTARCTIC MAPPING OPERATIONS* (AG00177 003); 12 MONTHS \$250,000

MCKELVEY, VINCENT E; *GEOLOGY OF THE LASSITER COAST, ANTARCTICA* (AG00187 002); 12 MONTHS \$76,100

MCKELVEY, VINCENT; *GEOLOGY OF THE LASSITER COAST, ANTARCTICA* (AG00187 003); 12 MONTHS \$80,300

HENDRICKS, E L; *GEOLOGICAL INVESTIGATIONS IN THE PENSACOLA MOUNTAINS, ANTARCTICA* (AG00238 001); 12 MONTHS \$30,400

BEHRENDT, JOHN C; *AEROMAGNETIC AND GRAVIMETRIC DATA REDUCTION OF THE PENSACOLA MOUNTAINS AREA, ANTARCTICA* (AG00254 001); 12 MONTHS \$10,400

SMITHSONIAN INSTITUTION

FEHLMANN, H ADAIR; *PARTICIPATION IN USARP EXPEDITIONS* (A004105 003); 12 MONTHS \$30,400

FEHLMANN, H ADAIR; *COOPERATIVE SYSTEMATICS STUDIES IN ANTARCTIC BIOLOGY* (V031357); 12 MONTHS \$42,800

DEPARTMENT OF ARMY-CORPS OF ENGINEERS

NICOLETTI, FRANK T; *STANDARD GEOGRAPHIC NOMENCLATURE IN THE ANTARCTIC FOR UNITED STATES USE* (CA13000 004); 12 MONTHS \$20,200

FLORIDA

FLORIDA STATE UNIVERSITY

DEVORF, GEORGE W; *CONTRACT FOR CURATORSHIP OF 'ELTANIN' CORE COLLECTION* (C644000 003); 12 MONTHS \$56,100

OSMOND, J K; *GEOCHRONOLOGY OF USNS 'ELTANIN' CORES FROM THE SOUTHERN OCEAN* (V021786 001); 12 MONTHS \$7,200

FRANKS, LAWRENCE A; MARINE GEOLOGY OF THE SOUTHERN OCEAN (V027149 001); 12 MONTHS \$58,100
FRANKS, LAWRENCE A; MARINE GEOLOGY OF THE SOUTHERN OCEAN (V027149 002); \$3,400

IDAHO

UNIVERSITY OF IDAHO

ERICKSON, ALBERT W; POPULATION STUDIES OF ANTARCTIC SEALS: CENSUS AND REPRODUCTIVE BIOLOGY (V030470); 24 MONTHS \$97,800

ILLINOIS

NORTHERN ILLINOIS UNIVERSITY

MCGINNIS, LYLE D; CONTRACT FOR - SUPPORT OF DRY VALLEY DRILLING PROJECT (C443000 001); 6 MONTHS \$6,900

KANSAS

WICHITA STATE UNIVERSITY

TASCH, PAUL; CONCHOSTRACAN PALEONTOLOGY OF THE CENTRAL TRANSANTARCTIC MOUNTAINS, ANTARCTICA (V031021); 18 MONTHS \$3,500

MARYLAND

JOHNS HOPKINS UNIVERSITY

SLADEN, WILLIAM J L; GRADUATE STUDIES IN ECOLOGY AND COMPARATIVE BEHAVIOR (A013119 001); 8 MONTHS \$6,200

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

REID, GEORGE C; ERL ANTARCTIC RIOMETER DATA PROGRAM, 1972 (AG00139 003); 12 MONTHS \$21,700

RUBIN, M J, AND HESS, W N; GEOPHYSICAL MONITORING PROGRAM IN ANTARCTICA (GMA) (AG0047 001*); 12 MONTHS \$261,500

FERGUSON, EARL E; U.S. UPPER ATMOSPHERE GEOPHYSICS RESEARCH PROGRAMS AT YOSTOK (AG00283); 12 MONTHS \$6,100

UNIVERSITY OF MARYLAND, COLLEGE PARK

ROSENBERG, THEODORE J; ENERGETIC ELECTRON PRECIPITATION NEAR THE PLASMAPAUSE (V028811 X01); 12 MONTHS \$71,500

ZOLLER, WILLIAM H, AND DUCE, ROBERT A; TRACE METALS AND HALOGENS IN THE ANTARCTIC ATMOSPHERE (V033333*); 12 MONTHS \$1,600

MASSACHUSETTS

CLARK UNIVERSITY

GANNUTZ, THEODORE P; PHOTOSYNTHESIS AND RESPIRATION OF ANTARCTIC LICHENS (A013393 001); \$2,500

MICHIGAN

MICHIGAN STATE UNIVERSITY

INSHAUG, HENRY A; TERRESTRIAL CRYPTOGAMS OF THE SUBANTARCTIC (V026613 001); 12 MONTHS \$48,700

UNIVERSITY OF MICHIGAN

WIIN-NIELSEN, AKSEL; SUPPORT OF METEOROLOGICAL STUDIES (V027091 001); 12 MONTHS \$6,700

MINNESOTA

UNIVERSITY OF MINNESOTA

SINIFF, DONALD B; POPULATION STUDIES OF ANTARCTIC SEALS: MODELING AND REGULATORY BIOLOGY (V024327 001); 24 MONTHS \$100,000

SINIFF, DONALD B; STATUS AND POPULATION DYNAMICS OF ANTARCTIC SEALS (V024327 002); 12 MONTHS \$26,600

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

ZUMBERGE, JAMES H; CONTRACT FOR - COORDINATION OF ROSS ICE SHELF PROJECT (C726000); 41 MONTHS \$4,870

NEVADA

UNIVERSITY OF NEVADA SYSTEM OFFICE

WARBURTON, JOSEPH A; ANALYSIS FOR WEATHER MODIFICATION CHEMICALS IN ANTARCTIC ICE (V027138 001); 12 MONTHS \$40,900

NEW HAMPSHIRE

DARTMOUTH COLLEGE

MORGAN, MILLETT G; VLF AND ULF CONJUGATE INVESTIGATION OF THE PLASMAPAUSE (V025327 001*); 12 MONTHS \$18,200

DEPARTMENT OF ARMY-COLD REGIONS RESEARCH AND ENGINEERING LAB

MOCK, S J, AND COLBECK, S C; GEOPHYSICAL AND GLACIOLOGICAL FIELD INVESTIGATIONS IN GREENLAND (AG00378*); 12 MONTHS \$23,900

NEW MEXICO

ATOMIC ENERGY COMMISSION-ALBUQUERQUE OPERATIONS OFFICE-AEC

OFTE, DON; STUDY OF A SEASONAL ASYMMETRY IN AURORAL CONJUGACY (AG00476*); 12 MONTHS \$5,000

NEW YORK

AMERICAN GEOGRAPHICAL SOCIETY

BUSHNELL, VIVIAN C; ANTARCTIC MAP FOLIO SERIES (C485000 018); 12 MONTHS \$20,000

PINTNER, MIKLOS; MAINTAIN AN UP-TO-DATE REVISION OF THE MAP OF ANTARCTICA, SCALE 1:3,000,000 (C441001 000); 12 MONTHS \$2,000

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

DALZIEL, IAN W D; THE STRUCTURE AND TECTONIC HISTORY OF THE NORTHERN LIMB OF THE SCOTIA ARC (V019343 001); 8 MONTHS \$41,800

GORDON, ARNOLD L; COLLECTION, PROCESSING AND ANALYSIS OF PHYSICAL OCEANOGRAPHIC DATA IN ANTARCTIC WATERS (V018830 001); 12 MONTHS \$154,800

HAYES, DENNIS, AND EWING, MAURICE; GEOPHYSICAL STUDIES FROM 'ELTANIN' IN 1972 (V027178 001); 5 MONTHS \$101,000

NORTH CAROLINA

DUKE UNIVERSITY

SEARLES, RICHARD B; AN ECOLOGICAL AND SYSTEMATIC STUDY OF THE BENTHIC MARINE ALGAE OF SOUTHERN CHILE (V031788); 24 MONTHS \$45,200

OHIO

OHIO STATE UNIVERSITY

DALRYMPLE, PAUL C; ANALYSIS OF PLATEAU MICROMETEOROLOGICAL TOWER DATA (V024303 001); 12 MONTHS \$42,300

WHILLANS IAN M; STUDY OF ICE SHEET DYNAMICS NORTHEAST OF BYRD STATION (V028127 X01); 12 MONTHS \$39,600

YOUNG, STEVEN B; SYSTEMATICS OF PHYTOGEOGRAPHY OF VASCULAR PLANTS OF THE SOUTH POLAR REGIONS (V028139 001); 12 MONTHS \$20,200

COATES, DONALD A, AND ELLIOT, DAVID H; GEOLOGY OF THE BEARDMORE GLACIER-SCOTT, GLACIER REGION, TRANSANTARCTIC MOUNTAINS, ANTARCTICA (V028832 001); 12 MONTHS \$18,000

BULL, COLIN; SUPPORT OF GEOLOGICAL STUDIES (FOR ARMANDO PASOLA) (V027439 001); 12 MONTHS \$8,200

ORHEIM, OLAV; STUDIES OF GLACIERS IN THE SOUTH SHETLAND ISLANDS (V028825 001); 12 MONTHS \$2,700

RUNDLE, ARTHUR S; ANALYSIS OF GLACIOLOGY AND METEOROLOGY OF ANVERS ISLAND, ANTARCTICA (V028879); 12 MONTHS \$10,500

HAMILTON, WAYNE L; DUST CONCENTRATIONS IN BYRD CORE COMPARED WITH CLIMATE OVER LAST 100,000 YEARS (V033889); 14 MONTHS \$30,000

OKLAHOMA

OKLAHOMA MEDICAL RESEARCH FOUNDATION

SHURLEY, JAY T; A STUDY OF THE PSYCHOPHYSIOLOGY OF SLEEP AND DREAMING IN ANTARCTICA (A013638 001); 12 MONTHS \$20,000

OREGON

OREGON STATE UNIVERSITY

BYRNE, JOHN V; SUPPORT OF OCEANOGRAPHIC STUDIES (V021137); 12 MONTHS \$5,400

OREGON STATE UNIVERSITY-MARINE SCIENCE CENTER

HEDGPETH, JOEL W; TIDAL ZONE ECOLOGY AT PALMER STATION, ANVERS ISLAND, ANTARCTICA (A013838 001); \$1,000

PENNSYLVANIA

FRANKLIN INSTITUTE-BARTOL RESEARCH FOUNDATION

POMERANTZ, MARTIN A; INVESTIGATIONS OF COSMIC RAY INTENSITY VARIATIONS IN ANTARCTICA (V028339 X01); 12 MONTHS \$107,200

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND

KENNETT, JAMES P; MICROPALAEONTOLOGICAL AND PALEOENVIRONMENTAL STUDIES OF MARINE SEDIMENTS FROM THE SOUTHERN OCEAN (V023305 001); 12 MONTHS \$20,500

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

WATKINS, N D; STUDIES OF THE PALEOMAGNETISM OF 'ELTANIN' DEEP-SEA SEDIMENTARY CORES (V023400 001); 12 MONTHS \$39,300

WATKINS, NORMAN D; VOLCANOLOGY, PETROLOGY, GEOCHEMISTRY AND PALEOMAGNETISM OF ST. PAUL AND NEW AMSTERDAM ISLANDS, SOUTHEASTERN INDIAN OCEAN (V031480); 12 MONTHS \$12,000

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA

CONOLLY, JOHN B; *SEDIMENTATION PATTERNS IN THE SOUTHERN OCEAN BETWEEN AUSTRALIA AND ANTARCTICA* (V028803 001); 12 MONTHS \$12,000

TEXAS

TEXAS A & M UNIVERSITY

EL-SAYED, SAYED Z; *PHYTOPLANKTON PRODUCTION AND ITS ROLE IN THE STUDY OF THE ANTARCTIC MARINE ECOSYSTEM* (V025222 001); 12 MONTHS \$75,400

EL-SAYED, SAYED Z; *PHYTOPLANKTON PRODUCTION AND ITS ROLE IN THE STUDY OF THE ANTARCTIC MARINE ECOSYSTEM* (V045222 002); \$4,200

BOTTINO, NESTOR R; *LIPIDS OF ANTARCTIC MARINE ORGANISMS* (V020112); 24 MONTHS \$52,100

TEXAS TECH UNIVERSITY

WADE, Y ALTON; *THE GEOLOGY OF MARIE BYRD AND ELLSWORTH LANDS, ANTARCTICA* (V028901 001); 12 MONTHS \$20,000

STRANDTMANN, R W; *POPULATION DYNAMICS OF ANTARCTIC TERRESTRIAL ARTHROPODS* (V021332 001); 12 MONTHS \$26,100

UTAH

UTAH STATE UNIVERSITY

MULLER-SCHWARZE, DIETLAND; *ANTI-PREDATOR AND SOCIAL BEHAVIOR IN ADELIE PENGUINS* (A011494 001); 12 MONTHS \$38,100

MULLER-SCHWARZE, D; *ANTI-PREDATOR AND SOCIAL BEHAVIOR IN ADELIE PENGUINS* (V031215); 12 MONTHS \$42,200

VIRGINIA

ROANOKE COLLEGE

THOMPSON, JESSE C JR; *ECOLOGY AND SYSTEMATICS OF CILIATED PROTOZOA ON THE ANTARCTIC PENINSULA* (A018495 001); 2 MONTHS \$5,700

VIRGINIA POLYTECHNIC INSTITUTE

PARKER, BRUCE C; *LIMNOLOGICAL INVESTIGATIONS OF ALGAL COMMUNITIES* (A018748 001); 8 MONTHS \$13,900

PATERSON, ROBERT A; *FRESH WATER AND MARINE ANTARCTIC FUNGI (PLANKTON) PARASITES AND AQUATIC SAPROPHYTES* (V031184); 12 MONTHS \$24,300

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

BENTLEY, CHARLES R; *ANALYSIS OF ANTARCTIC GEOPHYSICAL DATA* (V040711 001); 12 MONTHS \$28,700

SCHWERTFEGER, WERNER; *TOPICS OF ANTARCTIC METEOROLOGY* (V022210 001); 12 MONTHS \$37,300

CLAPP, JAMES L, AND BENTLEY, CHARLES R; *ANALYSIS OF ROOSEVELT ISLAND STRAIN DATA* (V032272); 12 MONTHS \$15,600

WYOMING

UNIVERSITY OF WYOMING

HOFMANN, DAVID J; *MEASUREMENT OF SUBMICRON PARTICULATE MATTER IN THE ANTARCTIC STRATOSPHERE* (V022071 001); 12 MONTHS \$38,400

HOUSTON, R S, AND SMITHSON, S B; *GEOLOGICAL AND GEOPHYSICAL STUDIES IN SOUTH VICTORIA LAND, ANTARCTICA* (V031309); 12 MONTHS \$5,000

FIELD SUPPORT

CALIFORNIA

HOLMES AND NARVER INC

RICKEY, ROY; *CONTRACT FOR SCIENTIFIC SUPPORT ACTIVITIES FOR THE U.S. ANTARCTIC RESEARCH PROGRAM* (C311000 008); \$10,673

RICKEY, ROY; *SCIENTIFIC SUPPORT ACTIVITIES FOR THE U.S. ANTARCTIC RESEARCH PROGRAM* (C311000 009); 12 MONTHS \$193,300

STANFORD UNIVERSITY

LUSIGNAN, BRUCE B; *DESIGN AND PROTOTYPE FABRICATION OF AN AUTOMATIC UNMANNED ANTARCTIC GEOPHYSICAL LABORATORY* (C322000 003); 12 MONTHS \$148,000

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (01AWDS); \$194

AMERICAN EXPRESS COMPANY

MUMMERY, DESMAN L; *TRANSPORTATION SERVICES RELATED TO NON-GOVERNMENT TRAVEL IN CONNECTION WITH USARP* (C311000 012); 12 MONTHS \$100,000

HARBIDGE HOUSE INC

GARRETT, W H; *ENGINEERING STUDY OF THE MANNING OF THE USNS ELTANIN* (C188000); 3 MONTHS \$36,334

DEPARTMENT OF NAVY-MILITARY SEA TRANSPORT SERVICE

GRALLA, ARTHUR R; *OPERATION OF SHIP USNS ELTANIN* (CA13000 002); 3 MONTHS \$400,000

GRALLA, ARTHUR R; *OPERATION OF SHIP USNS ELTANIN* (CA13000 003); 9 MONTHS \$1,300,000

DEPARTMENT OF NAVY-NAVAL SHIP ENGINEERING CENTER

DIEHL, WILLIAM F; *SERVICES IN SUPPORT OF USNS ELTANIN SATELLITE NAVIGATION SYSTEM* (CA05000 003); 12 MONTHS \$20,000

DEPARTMENT OF NAVY-NAVY SUBSISTENCE OFFICE

VOGEL, R E; *CONTRACT FOR RATIONS FURNISHED USARP PERSONNEL* (CA03000 001); 12 MONTHS \$50,000

MARYLAND

HYDROSPACE RESEARCH CORPORATION

GAY, SHELTON M JR; *SUPPORT SERVICES FOR THE UNITED STATES ANTARCTIC RESEARCH PROGRAM (USARP) RIV HEROIPALMER STATION RESEARCH SYSTEM* (C835000 001); 12 MONTHS \$470,975

RMC INC

DAY, CORNELIUS; *CONTRACT FOR ANALYSIS OF THE U.S. PROGRAM IN ANTARCTICA* (C881000); 8 MONTHS \$99,987

NEW HAMPSHIRE

DEPARTMENT OF ARMY-COLD REGIONS RESEARCH AND ENGINEERING LAB

HANSEN, B LYLE; *CORE DRILLING IN ANTARCTICA- AN ENGINEERING STUDY* (CA00001); 12 MONTHS \$49,300

LANGWAY, CHESTER C JR; *OPERATION OF THE CENTRAL ICE CORE STORAGE FACILITY* (CA22000 002); 12 MONTHS \$20,034

NEW JERSEY

ALPINE GEOPHYSICAL ASSOCIATES INC

SMOLEN, WALTER; *CONTRACT FOR FURNISHING OF SERVICES IN SUPPORT OF RESEARCH PROGRAMS CONDUCTED ABOARD THE USNS 'ELTANIN'* (C398000 003); 3 MONTHS \$42,000

SMOLEN, WALTER; *CONTRACT FOR FURNISHING OF SERVICES IN SUPPORT OF RESEARCH PROGRAMS ABOARD THE USNS ELTANIN* (C398000 004); 12 MONTHS \$461,402

POLAR INFORMATION SERVICE

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (11AWDS); \$14,858

AMERICAN GEOPHYSICAL UNION

SPIHLHAUS, A F JR; *PRODUCTION OF AN ENGLISH EDITION OF SOVIET ANTARCTIC EXPEDITION INFORMATION BULLETIN, NUMBERS 79-90* (V032222); 24 MONTHS \$23,000

LIBRARY OF CONGRESS

THURONYI, GEZA; *ABSTRACTING AND INDEXING SERVICE FOR CURRENT ANTARCTIC LITERATURE* (CA30000 001); 12 MONTHS \$105,100

SMITHSONIAN INSTITUTION

LANDRUM, BETTY J; *RECORDING OF DATA FOR SPECIMENS COLLECTED DURING THE U.S. ANTARCTIC PROGRAM* (CA191000 007); 12 MONTHS \$55,539

FEHLMANN, H A; *CONTRACT FOR SORTING OF COLLECTIONS FROM THE U. S. ANTARCTIC RESEARCH PROGRAM (USARP)* (C495000 007); 12 MONTHS \$95,670

FEHLMANN, H A; *PROCESSING OF USARP ROCK SAMPLES FROM THE SOUTHERN OCEAN* (C359000 006); 12 MONTHS \$20,300

MARYLAND

NONE; OTHER PROGRAM AWARDS (01AWDS); \$192

VIRGINIA

NONE; OTHER PROGRAM AWARDS (01AWDS); \$25

ADVISORY SERVICES

DISTRICT OF COLUMBIA

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL
DEGOES, LOUIS; *TASK ORDER FOR COMMITTEE ON POLAR RESEARCH* (C310034 011); 12 MONTHS \$54,000
DERBYSHIRE, G A; *COMMITTEE ON POLAR RESEARCH/ARCTIC ASSESSMENT GROUP* (C310034 012); 6 MONTHS \$30,000

ANTARCTIC LOGISTIC SUPPORT-U.S. NAVY

CALIFORNIA

BECHTEL INCORPORATED

BANDERS, WILLIAM; ENGR. DESIGN AND ANALYTICAL SERVICES. U.S. PROGRAM IN ANTARCTICA (C707000); 6 MONTHS \$494,000

HOLMES AND NARVER INC

RICKEY, ROY; SCIENTIFIC SUPPORT ACTIVITIES FOR THE U.S. ANTARCTIC RESEARCH PROGRAM (C571000 010); 6 MONTHS \$24,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO

AXFORD, W IAN, AND CHIVERS, H J A; IONOSPHERE INVESTIGATION FROM UNMANNED GEOPHYSICAL OBSERVATORIES (V031888); 12 MONTHS \$90,000

DISTRICT OF COLUMBIA

WESTERN UNION INTERNATIONAL INC

PARSONS, ARTHUR E; SATELLITE SERVICES FOR THE UNMANNED GEOPHYSICAL OBSERVATORY (C730000); 10 MONTHS \$88,800

DEPT. OF DEFENSE-DEPARTMENT OF DEFENSE

MCCUDDIN, LEO B; LOGISTIC SUPPORT OF THE UNITED STATES PROGRAM IN ANTARCTICA (CA00035 001); 9 MONTHS \$13,806,000

WELCH, DAVID F; LOGISTIC SUPPORT OF THE UNITED STATES PROGRAM IN ANTARCTICA (CA35000 001); 1 MONTHS \$3,000,000

SWINBURNE, H W; LOGISTIC SUPPORT OF THE UNITED STATES PROGRAM IN ANTARCTICA (CA35000 002); 1 MONTHS \$1,000,000

MCCUDDIN, LEO B; LOGISTIC SUPPORT OF THE UNITED STATES PROGRAM IN ANTARCTICA (CA35000 003); 1 MONTHS \$1,000,000

MARYLAND

UNIVERSITY OF MARYLAND, COLLEGE PARK

ZOLLER, WILLIAM H, AND DUCE, ROBERT A; TRACE METALS AND HALOGENS IN THE ANTARCTIC ATMOSPHERE (V033335); 12 MONTHS \$45,300

MINNESOTA

E J LONGYEAR COMPANY

LINDELOF, LEN; DRILLING RIG FOR THE DRY VALLEY DRILLING PROJECT (C735000); 10 MONTHS \$200,000

WASHINGTON

UNIVERSITY OF WASHINGTON

LIEMOHN, HAROLD B, AND HELMS, WARD J; A GEOMAGNETIC MICROPULSATION EXPERIMENT FOR THE ANTARCTIC UNMANNED GEOPHYSICAL OBSERVATORY (V031885); 12 MONTHS \$51,900

ARCTIC RESEARCH PROGRAMS

SCIENCE PROGRAMS

ALASKA

UNIVERSITY OF ALASKA

WEST, GEORGE C; THE STRUCTURE AND FUNCTION OF THE TUNDRA ECOSYSTEM (V029342 X02); 12 MONTHS \$414,600

WEST, GEORGE C; THE STRUCTURE AND FUNCTION OF THE TUNDRA ECOSYSTEM (V029342 001); \$29,700

FISCHER, VICTOR; MAN IN THE ARCTIC PROGRAM (V033198); 12 MONTHS \$100,000

UNIVERSITY OF ALASKA-GEOPHYSICAL INSTITUTE

WILSON, CHARLES R; COLLABORATIVE RESEARCH IN ACOUSTIC RADAR INVESTIGATION OF ARCTIC RADIATION INVERSIONS IN ICE FOG (V027887 001); 12 MONTHS \$65,200

WESCOTT, EUGENE M, AND NIELSEN, HANS C S; INVESTIGATION OF AURORAL CONJUGACY (V028809 001); 6 MONTHS \$19,900

CALIFORNIA

CALIFORNIA STATE UNIVERSITY, SAN DIEGO

MILLER, PHILIP C, COLLIER, BOYD D, AND MELCHIOR, HERBERT R; MODELING OF PRIMARY PRODUCERS AND RELATED STUDIES UNDER TUNDRA BIOME RESEARCH (V029345 X01); 12 MONTHS \$35,000

MCDONNELL DOUGLAS AERONAUTICS COMPANY

MASLEY, A J; CONTRACT FOR OPERATION OF THE CONJUGATE POINT RIOMETER PROGRAM (CA35000 004); 12 MONTHS \$27,872

UNIVERSITY OF CALIFORNIA, BERKELEY

GERSPER, PAUL L, AND PITELKA, FRANK A; POPULATION STUDIES OF THE BROWN LEMMING, BIOENERGETICS, SOCIAL ORGANIZATION, AND HABITAT UTILIZATION OF THE LAPLAND LONGSPUR, SOIL-PLANT NUTRIENT INTERACTIONS IN TUNDRA ECOSYSTEMS (V029349 X01); 12 MONTHS \$45,200

UNIVERSITY OF CALIFORNIA, DAVIS

GODDARD, WILSON B; AERODYNAMIC DETERMINATION OF SHEAR-STRESS OVER AND UNDER ARCTIC PACK ICE (V029030 001); 12 MONTHS \$15,100

UNIVERSITY OF CALIFORNIA, SAN DIEGO

AXFORD, W IAN, AND CHIVERS, HUGH J A; AN INVESTIGATION OF THE COMPOSITION OF AURORAL PRIMARY IONS (V029340 001); 12 MONTHS \$87,500

COLORADO

UNIVERSITY OF COLORADO

BARRY, ROGER G, AND JACOBS, JOHN D; ENERGY BUDGET STUDIES IN RELATION TO FAST-ICE BREAKUP PROCESSES IN DAVIS STRAIT (V028818 001); 6 MONTHS \$40,900

IVES, J D; COLORADO ALPINE TUNDRA STUDIES (V029350 X01); 12 MONTHS \$70,700

UNIVERSITY OF DENVER

WILLIAMSON, P ROGER; AN INVESTIGATION OF IONIZATION IN THE ATMOSPHERE BELOW 70 KM (V028888 001); 12 MONTHS \$49,000

CONNECTICUT

CENTER FOR THE ENVIRONMENT AND MAN INC

PANDOLFO, JOSEPH P; SIMULATED METEOROLOGICAL VARIATION OVER ARCTIC COASTAL TUNDRA (V029344 X02); 12 MONTHS \$15,200

LORD, NORMAN W, AND PANDOLFO, JOSEPH P; SIMULATIONS OF METEOROLOGICAL VARIATION OVER ARCTIC COASTAL TUNDRA UNDER PERTURBED PHYSICAL INTERFACE CONDITIONS (V029343 001); \$12,400

DISTRICT OF COLUMBIA

ARCTIC INSTITUTE OF NORTH AMERICA

SATER, JOHN E, AND MULLER, FRITZ; BAFFIN BAY - NORTH WATER WINTER PILOT STUDY (C635000 001); 6 MONTHS \$13,440

SATER, JOHN E, AND MULLER, FRITZ; A MESO-SCALE GLACIO-CLIMATOLOGICAL STUDY OF THE NORTH WATER AREA (C635000 002); 12 MONTHS \$65,935

ILLINOIS

UNIVERSITY OF ILLINOIS AT URBANA

BATZLI, GEORGE O; POPULATION DETERMINATION AND NUTRIENT FLUX THROUGH LEMMINGS (V033854 X00); 12 MONTHS \$22,100

MARYLAND

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

DERR, VERNON; COLLABORATIVE RESEARCH IN ACOUSTIC RADAR INVESTIGATION OF ARCTIC RADIATION INVERSIONS IN ICE FOG (AG00052 001); 12 MONTHS \$49,900

RUBIN, M J, AND HESS, W N; GEOPHYSICAL MONITORING PROGRAM IN ANTARCTICA (GMA) (AG00067 001); 12 MONTHS \$9,000

NEW HAMPSHIRE

DARTMOUTH COLLEGE

MORGAN, MILLETT G; VLF AND ULF CONJUGATE INVESTIGATION OF THE PLASMAPAUSE (V023327 001); 12 MONTHS \$29,700

DEPARTMENT OF ARMY-COLD REGIONS RESEARCH AND ENGINEERING LAB

LANGWAY, CHESTER C JR; ANALYSIS OF THE DEEP ICE CORES AND SUB-ICE MATERIAL (AG00018 002); 12 MONTHS \$51,100

WEEKS, W F, HIBLER, W D, KOVACS, A, AND ACKLEY, S; MESOSCALE STRAIN AND ICE MORPHOLOGY (AG00044); 12 MONTHS \$90,500

MOCK, S J, AND COLBECK, S C; GEOPHYSICAL AND GLACIOLOGICAL FIELD INVESTIGATIONS IN GREENLAND (AG00078); 12 MONTHS \$27,100

LANGWAY, C C JR, AND HANSEN, B L; ICE CORE DRILLING, ICE CORE ANALYSIS AND GEOPHYSICAL INVESTIGATIONS IN GREENLAND (AG00384); 18 MONTHS \$52,500

BROWN, JERRY; ANALYSIS OF STRUCTURE AND FUNCTION OF THE TUNDRA ECOSYSTEM (CA10000 001); 6 MONTHS \$20,000

NEW MEXICO

ATOMIC ENERGY COMMISSION-ALBUQUERQUE OPERATIONS OFFICE-AEC

OFTE, DON; STUDY OF A SEASONAL ASYMMETRY IN AURORAL CONJUGACY (AG00076); 12 MONTHS \$5,000

NEW YORK

AMERICAN GEOGRAPHICAL SOCIETY

PINTHER, MIKLOS; PREPARATION OF A MAP OF THE ARCTIC BASIN (C411004); 12 MONTHS \$53,124

STATE UNIVERSITY AT ALBANY

STROSS, RAYMOND G; BIOLOGICAL RHYTHMS AND PRODUCTIVITY OF ARCTIC ZOOPLANKTON (V029347 X01); 12 MONTHS \$18,400

NORTH CAROLINA

DUKE UNIVERSITY

BILLINGS, W D; *ROOT GROWTH AND ROOT RESPIRATION IN TUNDRA SOILS AS AFFECTED BY TEMPERATURE* (V033850 X00); 12 MONTHS \$19,800

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

HOBBIE, JOHN E, AND STANLEY, DONALD W; *DEVELOPMENT OF MODELS OF PRIMARY PRODUCTIVITY OF BENTHIC ALGAE AND OF DECOMPOSITION OF ORGANIC MATERIAL BY MICROORGANISMS* (V033853 X00); 12 MONTHS \$24,700

OHIO

OHIO STATE UNIVERSITY

RUDOLPH, EMANUEL D, AND RASTORFER, JAMES R; *PRODUCTIVITY OF TUNDRA LICHENS IN THE PRUDHOE BAY REGION, PHYSIOLOGICAL ECOLOGY OF ARCTIC BRYOPHYTES* (V033851 X00); 12 MONTHS \$19,200

UNIVERSITY OF CINCINNATI

MILLER, MICHAEL C; *PRODUCTION AND DECOMPOSITION OF DISSOLVED AND PARTICULATE ORGANIC CARBON IN ARCTIC COASTAL PONDS* (V033854 X00); 12 MONTHS \$12,800

SOUTH DAKOTA

AUGUSTANA COLLEGE

TIESZEN, LARRY L; *PHOTOSYNTHESIS, ACCLIMATION AND ORGANIC NUTRIENT FLUX IN THE PRINCIPAL TUNDRA SPECIES AT BARROW, ALASKA* (V033854 X01); 12 MONTHS \$58,200

SIOUX FALLS COLLEGE

BIERLE, DONALD A; *DYNAMICS OF FRESHWATER MACROBENTHIC COMMUNITIES IN ARCTIC ALASKA PONDS AND LAKES* (V033854 X02); 12 MONTHS \$18,600

BIERLE, DONALD A; *DYNAMICS OF MACROBENTHIC COMMUNITIES IN ARCTIC ALASKA PONDS AND LAKES* (V033854 001); \$1,317

UTAH

UTAH STATE UNIVERSITY

CALDWELL, MARTYN M; *GAS EXCHANGE OF ALPINE TUNDRA SPECIES* (V033853 X01); 12 MONTHS \$21,400

VIRGINIA

VIRGINIA POLYTECHNIC INSTITUTE

BENOIT, ROBERT E, AND MILLER, ORSON K JR; *DECOMPOSER ACTIVITIES AND COMMUNITY STRUCTURE OF BACTERIA, YEASTS AND BASIDIOMYCETES IN ARCTIC TUNDRA* (V033854 X01); 12 MONTHS \$31,600

WASHINGTON

UNIVERSITY OF WASHINGTON

UNTERSTEINER, NORBERT; *DYNAMICS AND THERMODYNAMICS OF ARCTIC SEA ICE* (V033807 001); 12 MONTHS \$309,900

BUSINGER, J A; *DIRECT SHEAR STRESS MEASUREMENTS OVER THE ARCTIC PACK ICE* (V033814); 12 MONTHS \$37,900

FIELD SUPPORT

ALASKA

WELLER, GUNTER E; *OTHER PROGRAM AWARDS* (01AWDS); 12 MONTHS \$37,000

CALIFORNIA

LITTON INDUSTRIES INC-AERO PRODUCTS DIVISION

BURDICK, C D; *LEASE OF TWO PALLETIZED LTN-51 INERTIAL NAVIGATION* (C683000 008); 2 MONTHS \$22,290

BURDICK, C D; *INERTIAL NAVIGATION SYSTEMS CONTRACT FOR LEASE OF TWO PALLETIZED LTN-51* (C683000 003); 2 MONTHS \$22,290

BURDICK, C D; *TWO INERTIAL NAVIGATION SYSTEMS* (C737000²); 12 MONTHS \$3,832

CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES

ROOTS, E F; *CANADIAN AIR SUPPORT FOR PROJECT AIDJEX* (CA32000); 27 MONTHS \$29,000

DISTRICT OF COLUMBIA

DEPARTMENT OF NAVY

BETZ, WALTER; *INSTALLATION OF ANTENNAS FOR RADIO SOUNDING EQUIPMENT* (CA4000 001); \$72,000

BETZ, WALTER; *INSTALLATION OF ANTENNAS FOR RADIO SOUNDING EQUIPMENT* (CA4000 002); 2 MONTHS \$40,000

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

MCGREGOR, M RON; *LOGISTIC SUPPORT TO ARCTIC FIELD PROGRAMS* (CA73000); 12 MONTHS \$260,000

MARYLAND

ZWALLY, H JAY; *OTHER PROGRAM AWARDS* (01AWDS); 24 MONTHS \$54,600

RMC INC

DAY, CORNELIUS; *ANALYSIS OF THE U.S. PROGRAM IN ANTARCTICA* (C681000 001); 1 MONTHS \$7,115

OREGON

NEAL, VICTOR T; *OTHER PROGRAM AWARDS* (01AWDS); 12 MONTHS \$30,300

WASHINGTON

BJORNERT, ROLF P; *OTHER PROGRAM AWARDS* (01AWDS); 12 MONTHS \$30,600

UNIVERSITY OF WASHINGTON

UNTERSTEINER, NORBERT; *CONTRACT FOR PLANNING AND ORGANIZATION OF AN ARCTIC ICE DYNAMICS JOINT EXPERIMENT* (C683000 001); 4 MONTHS \$489,612

UNTERSTEINER, NORBERT; *PLANNING AND ORGANIZATION OF AN ARCTIC ICE DYNAMICS JOINT EXPERIMENT* (C683000 005); 10 MONTHS \$298,600

POLAR INFORMATION SERVICE

ALASKA

UNIVERSITY OF ALASKA

LUICK, JACK R; *FIRST INTERNATIONAL SYMPOSIUM ON REIN-DEER/CARIBOU RESEARCH* (V0338740); 6 MONTHS \$10,000

DISTRICT OF COLUMBIA

NONE; *OTHER PROGRAM AWARDS* (01AWDS); \$5,561

AMERICAN GEOPHYSICAL UNION

SPIILHAUS, A F JR; *PUBLICATION OF THE ANTARCTIC RESEARCH SERIES* (N000055 004²); 12 MONTHS \$13,000

ARCTIC INSTITUTE OF NORTH AMERICA

MARTNA, MARET HELGA; *ARCTIC BIBLIOGRAPHY PROJECT* (V033100); 3 MONTHS \$20,000

LIBRARY OF CONGRESS

THURONYI, GEZA; *PROTOTYPE POLAR BIBLIOGRAPHY SYSTEM* (AG60071); 12 MONTHS \$33,800

MARYLAND

NONE; *OTHER PROGRAM AWARDS* (01AWDS); \$300

VIRGINIA

NONE; *OTHER PROGRAM AWARDS* (01AWDS); \$29

OCEANOGRAPHIC FACILITIES AND SUPPORT

SHIP OPERATIONS

ALASKA

UNIVERSITY OF ALASKA-INSTITUTE OF MARINE SCIENCE

HOOD, D W; *CONTINUATION OF SUPPORT FOR OCEANOGRAPHIC VESSEL OPERATION* (D031410); 12 MONTHS \$182,900

CALIFORNIA

UNIVERSITY OF SOUTHERN CALIFORNIA

SAVAGE, JAY M; *SUPPORT OF THE RESEARCH VESSEL VELERO IV* (D031580); 12 MONTHS \$315,700

STANFORD UNIVERSITY-HOPKINS MARINE STATION

GILMARTIN, MALVERN; *SUPPORT OF RESEARCH VESSEL OPERATIONS* (D031550); 6 MONTHS \$100,000

GILMARTIN, MALVERN; *PHASE OUT SUPPORT OF THE RIV PROTEUS* (D031538 001); 6 MONTHS \$76,300

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

BENSON, ANDREW A, AND CAREY, WALTER F; SUPPORT FOR PHYSIOLOGICAL RESEARCH SHIP RIV ALPHA HELIX (D038838 001); 6 MONTHS \$169,000

NIERENBERG, WILLIAM A; PARTIAL SUPPORT OF SHIP OPERATIONS FOR RESEARCH AT SEA IN OCEANOGRAPHY (D038021*); 12 MONTHS \$1,311,000

CAREY, WALTER F; OPERATING SUPPORT FOR RIV ALPHA HELIX (D034468); 11 MONTHS \$650,000

FLORIDA

FLORIDA STATE UNIVERSITY

HARRISS, ROBERT C; SUPPORT OF RIV TURSIOPS (D048174 001); 11 MONTHS \$68,200

MOSE MARINE LABORATORY

GILBERT, PERRY W; OPERATION OF 33-FOOT OCEANOGRAPHIC VESSEL FOR 'USE' IN MARINE BIOLOGICAL RESEARCH (B017114 001); 10 MONTHS \$14,500

NOVA UNIVERSITY

RICHARDSON, WILLIAM S; SUPPORT FOR OPERATION OF RIV GULF STREAM (D031704); 12 MONTHS \$18,200

UNIVERSITY OF MIAMI-SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES

BADER, RICHARD G; SUPPORT OF RESEARCH VESSELS (D031376); 12 MONTHS \$1,220,900

GEORGIA

SKIDAWAY INSTITUTE OF OCEANOGRAPHY

GREENE, ALBERT O JR; SUPPORT OF UNIVERSITY OF GEORGIA MARINE INSTITUTE AND SKIDAWAY INSTITUTE OF OCEANOGRAPHY RESEARCH VESSELS (D031538); 12 MONTHS \$102,900

HAWAII

UNIVERSITY OF HAWAII

WOOLLARD, GEORGE P; SUPPORT OF SHIP OPERATIONS (D031603*); 12 MONTHS \$279,400

MARYLAND

JOHNS HOPKINS UNIVERSITY

PRITCHARD, DONALD W; OPERATION OF THE RESEARCH VESSELS RIDGELY WARFIELD, MAURY, AND LYDIA LOUISE II (D027279 001); \$5,417

PRITCHARD, DONALD W; SUPPORT OF RESEARCH VESSEL OPERATIONS (D031707); 12 MONTHS \$119,000

MASSACHUSETTS

WOODS HOLE OCEANOGRAPHIC INSTITUTION

MAXWELL, ARTHUR E; SUPPORT FOR THE OPERATION OF RESEARCH VESSELS (D031251 002); \$114,200

MAXWELL, ARTHUR E; SUPPORT FOR THE OPERATION OF RESEARCH VESSELS (D031924*); 12 MONTHS \$792,500

MICHIGAN

UNIVERSITY OF MICHIGAN

CHANDLER, DAVID C; SUPPORT OF SHIP OPERATIONS (D031764); 12 MONTHS \$250,000

NEW JERSEY

ALPINE GEOPHYSICAL ASSOCIATES INC

SKOLEN, WALTER; CONTRACT FOR OPERATION AND MAINTENANCE OF THE RESEARCH VESSEL 'ANTON BRUNN', AND FOR ADMINISTRATIVE SUPPORT OF AN OCEANOGRAPHIC RESEARCH PROGRAM (C143900 014); \$1,066

NEW YORK

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

WORZEL, J LAMAR; SHIP OPERATIONS (D027250 001); \$47,200

WORZEL, J LAMAR; SUPPORT OF SHIP OPERATIONS (D031705); 12 MONTHS \$740,100

NORTH CAROLINA

DUKE UNIVERSITY-MARINE LABORATORY

BARBER, RICHARD T; CONTINUATION OF VESSEL OPERATION, RIV EASTWARD (D038333 001); \$29,860

BARBER, R T, AND NEWTON, J G; SUPPORT FOR OPERATION OF RIV EASTWARD (D032560); 12 MONTHS \$406,000

OREGON

OREGON STATE UNIVERSITY

BURT, WAYNE V, AND RITTENHOUSE, ELLIS B; RESEARCH VESSEL OPERATIONS (D031576*); 12 MONTHS \$75,600

BURT, WAYNE V; RESEARCH VESSEL OPERATIONS (D031878 001); \$99,100

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND

KNAUSS, JOHN A; RESEARCH VESSEL OPERATIONS (D027948 001*); 12 MONTHS \$290,000

KNAUSS, JOHN A; SUPPLEMENTARY SUPPORT FOR RIV TRIDENT (D027948 004); 12 MONTHS \$153,900

TEXAS

TEXAS A & M UNIVERSITY

GEYER, RICHARD A; SUPPORT OF SHIP OPERATIONS (D031790); 12 MONTHS \$488,200

WASHINGTON

UNIVERSITY OF WASHINGTON

RICHARDS, FRANCIS A; OCEANOGRAPHIC VESSEL OPERATIONS (D031717); 12 MONTHS \$731,000

SHIP CONSTRUCTION/CONVERSION

MASSACHUSETTS

WOODS HOLE OCEANOGRAPHIC INSTITUTION

MAXWELL, ARTHUR E; CONSTRUCTION OF AN OCEANOGRAPHIC RESEARCH VESSEL (C7147000); 25 MONTHS \$2,900,000

SPECIALIZED FACILITIES AND EQUIPMENT

ALASKA

UNIVERSITY OF ALASKA-INSTITUTE OF MARINE SCIENCE

HOOD, D W; OCEANOGRAPHIC SHIP EQUIPMENT (D030888); 12 MONTHS \$15,200

CALIFORNIA

UNIVERSITY OF SOUTHERN CALIFORNIA

SAVAGE, JAY M; PLAN FOR CAPITAL IMPROVEMENTS AND EQUIPMENT OUTFITTING FOR THE RESEARCH VESSEL VELERO IV (D032166); 12 MONTHS \$131,200

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

NIERENBERG, WILLIAM A; CAPITAL EQUIPMENT AND IMPROVEMENTS FOR RESEARCH VESSELS (D031944); 12 MONTHS \$170,000

FRAUTSCHY, JEFFERY D; CONSTRUCTION OF A PIER AT NIMITZ MARINE FACILITY (D031607); 15 MONTHS \$724,100

FLORIDA

FLORIDA STATE UNIVERSITY

HARRISS, ROBERT C; RESEARCH EQUIPMENT FOR RIV TURSIOPS (D032601); 12 MONTHS \$15,600

UNIVERSITY OF MIAMI-SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES

BADER, RICHARD G; EQUIPMENT TO BE USED ABOARD RESEARCH VESSELS, GILLISS, ISELIN AND CALANUS (D032762); 12 MONTHS \$110,850

BUNT, JOHN S; SHORE FACILITY SUPPORT-MULTI-SAMPLE RECORDING SPECTROPHOTOMETER (D031271); 12 MONTHS \$9,000

HAY, WILLIAM W; SHORE FACILITIES SUPPORT-SCANNING ELECTRON MICROSCOPE ACCESSORIES (D031272); 12 MONTHS \$28,700

GEORGIA

SKIDAWAY INSTITUTE OF OCEANOGRAPHY

MENZEL, DAVID W; EQUIPMENT FOR OCEANOGRAPHIC VESSEL OPERATIONS AT THE UNIVERSITY OF GEORGIA MARINE INSTITUTE AND SKIDAWAY INSTITUTE OF OCEANOGRAPHY (D032145); 12 MONTHS \$41,110

HAWAII

UNIVERSITY OF HAWAII

WOOLLARD, GEORGE P; IMPROVING SHIP FACILITIES OF UNIVERSITY OF HAWAII RESEARCH VESSELS, KANA KEOKI AND TERITU (D032599); 12 MONTHS \$76,900

WOOLLARD, GEORGE P; SHORE FACILITIES SUPPORT-SCANNING ELECTRON MICROSCOPE AND ACCESSORIES (D031470); 24 MONTHS \$69,000

MASSACHUSETTS

WOODS HOLE OCEANOGRAPHIC INSTITUTION

MORSE, ROBERT W; FACILITIES SUPPORT FOR RESEARCH VESSELS (D032277); 12 MONTHS \$134,400

HUNT, JOHN M; SHORE FACILITIES SUPPORT - MASS SPECTROMETER (D032276*); 12 MONTHS \$104,000

MICHIGAN

UNIVERSITY OF MICHIGAN
CHANDLER, DAVID C; EQUIPMENT FOR RESEARCH VESSEL MYNIS
(D031833); 12 MONTHS \$19,700

NEW YORK

COLUMBIA UNIVERSITY
WORZEL, J LAMAR; FACILITIES SUPPORT FOR RESEARCH VESSELS
(D031876); 12 MONTHS \$124,900

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL
OBSERVATORY
WORZEL, J LAMAR; FACILITIES SUPPORT FOR RESEARCH VESSELS
(D031876 001); \$133,200

NORTH CAROLINA

DUKE UNIVERSITY
BARBER, R T; SHIPBOARD EQUIPMENT, RIV EASTWARD (D031853); 12
MONTHS \$35,540

DUKE UNIVERSITY-MARINE LABORATORY
BARBER, RICHARD T; ALTERATION OF RIV EASTWARD TO PROVIDE
ADDED LABORATORY AND BERTHING SPACE (D031858); 12 MONTHS
\$44,660

OREGON

OREGON STATE UNIVERSITY
BURT, WAYNE V, AND RITTENHOUSE, ELLIS B; IMPROVEMENT OF
ONBOARD SCIENTIFIC EQUIPMENT FOR YAQUINA AND CAYUSE
(D031757); 12 MONTHS \$81,497

TEXAS

TEXAS A & M UNIVERSITY
GEYER, R A; RESCUE BOAT OUTFITTING (D031898); 12 MONTHS \$3,500

WASHINGTON

UNIVERSITY OF WASHINGTON
RICHARDS, FRANCIS A; EQUIPMENT FOR OCEANOGRAPHIC VESSEL
OPERATIONS (D031876); 12 MONTHS \$29,900
RICHARDS, FRANCIS A; EQUIPMENT FOR OCEANOGRAPHIC VESSEL
OPERATIONS (D031876 001); 12 MONTHS \$96,500

OTHER FACILITIES AND SUPPORT OPERATIONS

CALIFORNIA

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF
OCEANOGRAPHY
SHOR, GEORGE; SUPPORT OF SHIPBOARD TECHNICIANS (D031817); 12
MONTHS \$91,300
NIERENBERG, WILLIAM A; SUPPORT FOR DC-3 UTILIZATION IN
OCEANOGRAPHY (D031841); 12 MONTHS \$49,920
ROBINSON, MARGARET K; BATHY THERMOGRAPH DATA PROCESSING
GROUP (D031879); 4 MONTHS \$30,000
ROBINSON, MARGARET K; SUPPORT FOR BATHY THERMOGRAPH
DATA PROCESSING GROUP (D031879 001); 24 MONTHS \$149,000

DISTRICT OF COLUMBIA

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH
KIRWAN, A DENNIS; SUPPORT OF THE COMMITTEE ON OCEANO-
GRAPHY OF THE NATIONAL ACADEMY OF SCIENCES (AG00281 003*); 12
MONTHS \$10,000

GEORGIA

GREENE, ALBERT JR; OTHER PROGRAM AWARDS (01AWDS); 14
MONTHS \$29,350

MASSACHUSETTS

WOODS HOLE OCEANOGRAPHIC INSTITUTION
MORSE, ROBERT W; SUPPORT FOR THE UNIVERSITY-NATIONAL
OCEANOGRAPHIC LABORATORY SYSTEM (UNOLS) OFFICE (D031864); 12
MONTHS \$46,250
MORSE, ROBERT W; SUPPORT FOR THE UNIVERSITY-NATIONAL
OCEANOGRAPHIC LABORATORY SYSTEM (UNOLS) (D031864 001); 12
MONTHS \$0
SCHROEDER, ELIZABETH H; SUPPORT OF BATHY THERMOGRAPH
PROCESSING GROUP (D031810); 12 MONTHS \$21,600
SCHROEDER, ELIZABETH H; SUPPORT OF BATHY THERMOGRAPH
PROCESSING GROUP (D031810 001); 24 MONTHS \$46,700
MORSE, ROBERT W; SUPPORT OF SUBMERSIBLE OPERATIONS
(D031858); 12 MONTHS \$174,000
MAXWELL, ARTHUR E; SUPPORT OF SHIPBOARD TECHNICIANS AND
SHIPBOARD COMPUTING ACTIVITIES (D031781); 12 MONTHS \$160,100
HUNT, JOHN M; SHORE FACILITIES SUPPORT - MASS SPECTROME-
TER (D031878*); 12 MONTHS \$10,900

INTERNATIONAL DECADE OF OCEAN EXPLORATION

CALIFORNIA

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF
OCEANOGRAPHY
NIERENBERG, WILLIAM A; PARTIAL SUPPORT OF SHIP OPERA-
TIONS FOR RESEARCH AT SEA IN OCEANOGRAPHY (D031801*); 12
MONTHS \$145,000

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (01AWDS); 265
DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH
KIRWAN, A DENNIS; SUPPORT OF THE COMMITTEE ON OCEANO-
GRAPHY OF THE NATIONAL ACADEMY OF SCIENCES (AG00281 003*); 12
MONTHS \$6,000

HAWAII

UNIVERSITY OF HAWAII
WOOLLARD, GEORGE P; SUPPORT OF SHIP OPERATIONS (D031803*); 12
MONTHS \$360,000

MARYLAND

NONE; OTHER PROGRAM AWARDS (03AWDS); \$4,050
NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION
HESS, WILMOT N, AND HALPERN, DAVID; NEAR SURFACE CIRCULA-
TION STUDIES IN A COASTAL UPWELLING ENVIRONMENT (AG00189
001*); 13 MONTHS \$310,201

MASSACHUSETTS

WOODS HOLE OCEANOGRAPHIC INSTITUTION
MAXWELL, ARTHUR E; SUPPORT FOR THE OPERATION OF
RESEARCH VESSELS (D031883*); 12 MONTHS \$1,439,000

OREGON

OREGON STATE UNIVERSITY
BURT, WAYNE V, AND RITTENHOUSE, ELLIS B; RESEARCH VESSEL
OPERATIONS (D031875*); 12 MONTHS \$336,000
KULM, LAVERNE D; COLLABORATIVE RESEARCH IN AN INVESTIGA-
TION OF THE NASCA LITHOSPHERIC PLATE AND ITS INTERACTION
WITH THE SOUTH AMERICAN CONTINENTAL BLOCK (X028873 002*); 12
MONTHS \$57

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND
KNAYSS, JOHN A; RESEARCH VESSEL OPERATIONS (D031848 001*); 12
MONTHS \$20,000

VIRGINIA

NONE; OTHER PROGRAM AWARDS (02AWDS); \$5,836

ENVIRONMENTAL QUALITY

ALASKA

UNIVERSITY OF ALASKA-INSTITUTE OF MARINE SCIENCE
HOOD, DONALD W; U. S. PARTICIPATION IN INTERNATIONAL SYM-
POSIUM ON OCEANOGRAPHY OF THE BERING SEA (X030197); 6 MONTHS
\$25,200
GOERING, JOHN J, AND BURRELL, DAVID C; A SURVEY OF MERCURY,
CADMIUM, AND LEAD IN MARINE ORGANISMS OF THE ARCTIC
OCEAN, BERING SEA, AND NORTH PACIFIC OCEAN (X030198); 12
MONTHS \$44,100

BERMUDA

BERMUDA BIOLOGICAL STATION FOR RESEARCH INC
BUTLER, JAMES N; TRANSFER OF PERSISTENT POLLUTANTS IN
SARGASSUM COMMUNITIES (X032883); 24 MONTHS \$89,100

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY
PATTERSON, CLAIR C; TRACE METALS IN IDOE BASELINE STUDY
SAMPLES WITH SPECIAL EMPHASIS ON LEAD, CADMIUM AND TIN
(X031284); 12 MONTHS \$19,400
UNIVERSITY OF CALIFORNIA, BERKELEY
RISEBROUGH, ROBERT W; FORMULATION OF MASS BALANCE EQUA-
TIONS FOR POLYCHLORINATED BIPHENYLS IN MARINE ECOSYSTEMS
(X032885); 24 MONTHS \$122,000
UNIVERSITY OF SAN DIEGO COORDINATE COLLEGES
RESNICK, I; CONDUCT SECRETARIAT ACTIVITIES OF INTERNA-
TIONAL ORGANIZATION FOR STANDARDIZATION (ISO) TECHNICAL
COMMITTEE (TC) 147 (X031704); 24 MONTHS \$34,456

UNIVERSITY OF SOUTHERN CALIFORNIA

KU, TEH-LUNG; GEOCHEMICAL OCEAN SECTIONS STUDY - GEOSECS-RADIUM ANALYSES (X031110); 18 MONTHS \$40,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

BAINBRIDGE, ARNOLD E; GEOCHEMICAL OCEAN SECTIONS STUDY. GEOSECS-OPERATIONS GROUP (X021148 001); 18 MONTHS \$1,768,900

CRAIG, HARMON; GEOCHEMICAL OCEAN SECTIONS STUDY-GEOSECS-SHIP-BOARD AND LABORATORY MEASUREMENTS (X021143 001); 18 MONTHS \$354,900

GOLDBERG, EDWARD D. AND LASKER, REUBEN; THE FLUXES OF SYNTHETIC ORGANICS TO THE MARINE ENVIRONMENT AND EXCHANGE RATES OF CHLORINATED HYDROCARBONS AND SIMILAR CHEMICALS IN MARINE FOOD CHAINS (X031177); 24 MONTHS \$150,000

GOLDBERG, EDWARD D; WORKSHOP TO EVALUATE THE INTERNATIONAL DECADE OF OCEAN EXPLORATION BASELINE STUDY (X031171); 6 MONTHS \$13,500

GOLDBERG, EDWARD D; WORKSHOP TO EVALUATE THE INTERNATIONAL DECADE OF OCEAN EXPLORATION BASELINE STUDY (X031171 001); \$11,000

HENDERSKOTT, MYRL C, DAVIS, RUSS E, AND MUNK, WALTER H; DESIGN OF THE MID-OCEAN DYNAMICS EXPERIMENT ARRAY AS AN INVERSE PROBLEM (X031177); 12 MONTHS \$19,890

CONNECTICUT

YALE UNIVERSITY

TUREKIAN, KARL K; GEOCHEMICAL OCEAN SECTIONS STUDY. GEOSECS-STRONTIUM ANALYSES (X031173); 18 MONTHS \$36,600

DISTRICT OF COLUMBIA

NATIONAL ACADEMY OF ENGINEERING

KEIM, S RUSSELL; TASK ORDER FOR SUPPORT OF U.S. PARTICIPATION IN THE ENGINEERING COMMITTEE ON OCEANIC RESOURCES (ECOR) (C110219); 12 MONTHS \$900

BOLLER, JACK W; SUPPORT OF U.S. PARTICIPATION IN THE ENGINEERING COMMITTEE ON OCEANIC RESOURCES (ECOR) (C110219 001); 12 MONTHS \$5,000

FLORIDA

UNIVERSITY OF MIAMI-SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES

OSTLUND, H GOTE; GEOCHEMICAL OCEAN SECTIONS STUDY. GEOSECS-RADIO-CARBON AND TRITIUM MEASUREMENTS (X021165 001); 18 MONTHS \$144,900

GEORGIA

SKIDAWAY INSTITUTE OF OCEANOGRAPHY

WINDOM, HERBERT; THE TRANSFER OF HEAVY METALS THROUGH THE INNER CONTINENTAL SHELF TO THE OPEN OCEAN (X031113); 24 MONTHS \$184,000

HAWAII

UNIVERSITY OF HAWAII

KROOPNICK, PETER M; GEOCHEMICAL OCEAN SECTIONS STUDY. GEOSECS-ISOTOPIC MEASUREMENTS IN DISSOLVED INORGANIC CARBON, DISSOLVED OXYGEN, ATMOSPHERIC WATER VAPOR, AND ATMOSPHERIC CO₂ (X021164 001); 18 MONTHS \$64,200

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

CHAN, LUI-HEUNG, AND HANOR, JEFFREY S; DETERMINATION OF BARIUM CONCENTRATION IN OCEAN WATERS COLLECTED AT GEOCHEMICAL OCEAN SECTIONS STUDY (GEOSECS) STATIONS (X031031); 18 MONTHS \$14,100

MARYLAND

ATOMIC ENERGY COMMISSION

FORSTER, WILLIAM O; STUDY PROGRAM TO IDENTIFY PROBLEMS RELATED TO OCEANIC ENVIRONMENTAL QUALITY - CARIBBEAN AND GULF OF MEXICO (AG00078); 12 MONTHS \$71,000

VOLCHOK, HERBERT L, AND BOWEN, VAUGHAN T; GEOCHEMICAL OCEAN SECTIONS STUDY-GEOSECS-FALLOUT RADIONUCLIDES IN OCEANIC WATER COLUMNS (AG00055); 18 MONTHS \$86,000

NATIONAL BUREAU OF STANDARDS

LAFLEUR, PHILIP D; CERTIFICATION OF STANDARD REFERENCE MATERIALS FOR SUPPORT OF THE INTERNATIONAL DECADE OF OCEAN EXPLORATION (AG00047); 6 MONTHS \$50,000

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

AUSTIN, THOMAS S; DATA MANAGEMENT SERVICES FOR THE INTERNATIONAL DECADE OF OCEAN EXPLORATION (AG00082 001); 12 MONTHS \$46,750

HESS, WILMOT N, AND HALPERN, DAVID; NEAR SURFACE CIRCULATION STUDIES IN A COASTAL UPWELLING ENVIRONMENT (AG00099 001); 13 MONTHS \$11,699

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

EDMOND, JOHN M; GEOCHEMICAL OCEAN SECTIONS STUDY. GEOSECS-PARTIAL SUPPORT TO ACT AS ASSISTANT CHIEF SCIENTIST, GEOSECS EXPEDITION (X031110); 18 MONTHS \$7,600

EDMOND, JOHN M; GEOCHEMICAL OCEAN SECTIONS STUDY. GEOSECS-HIGH PRECISION BARIUM MEASUREMENTS (X031033); 18 MONTHS \$47,000

WOODS HOLE OCEANOGRAPHIC INSTITUTION

HUNT, JOHN M, AND SPENCER, DEREK W; GEOCHEMICAL OCEAN SECTIONS PROGRAM- CAPITAL EQUIPMENT FOR SHIPBOARD WORK (X021101 001); \$48,400

SPENCER, DEREK W, AND HUNT, JOHN M; GEOCHEMICAL OCEAN SECTIONS STUDY - ADMINISTRATIVE AND LOGISTICS ACTIVITIES (X021101 002); 18 MONTHS \$313,000

HARVEY, GEORGE R; A STUDY PROGRAM TO IDENTIFY PROBLEMS RELATED TO OCEANIC ENVIRONMENTAL QUALITY-NORTH ATLANTIC (X021101 001); \$25,100

MANGELSDORF, PAUL C; GEOCHEMICAL OCEAN SECTIONS STUDY - GEOSECS -ANALYSIS OF THE MAJOR IONS IN SEA WATER BY THE METHOD OF DIFFERENCE CHROMATOGRAPHY (X031114); 18 MONTHS \$19,400

SPENCER, DEREK W, AND BREWER, PETER G; GEOCHEMICAL OCEAN SECTIONS STUDY - GEOSECS - TRACE ELEMENT AND PARTICULATE MATTER INVESTIGATIONS (X031115); 18 MONTHS \$182,900

NEW YORK

AMERICAN NATIONAL STANDARDS INSTITUTE

RESNICK, I; CONDUCT SECRETARIAT ACTIVITIES OF INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO) TECHNICAL COMMITTEE (TC) 117 (X0311763 001); \$9,992

QUEENS COLLEGE

TAKAHASHI, TARO; GEOCHEMICAL OCEAN SECTIONS STUDY - GEOSECS -CARBONATE CHEMISTRY OF SEA WATER (X031110); 18 MONTHS \$38,400

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

BROECKER, WALLACE S, AND BENDER, MICHAEL; BARIUM ANALYSES IN THE GEOSECS PROGRAM (X021164 001); 11 MONTHS \$34,600

BROECKER, WALLACE S, FEELY, HERBERT, BISCAYE, PIERRE E, AND BENDER, MICHAEL; GEOCHEMICAL OCEAN SECTIONS STUDY. GEOSECS-RADIUM 226 ANALYSES IN ATLANTIC SAMPLES (X021164 002); 18 MONTHS \$214,188

BROECKER, WALLACE S, AND SENECHAL, RONALD G; GEOCHEMICAL OCEAN SECTIONS STUDY-GEOSECS-ANALYSIS OF BARIUM IN GEOSECS ATLANTIC SAMPLES (X021164 001); \$11,000

OREGON

OREGON STATE UNIVERSITY

BYRNE, JOHN V, AND GORDON, LOUIS I; GEOSECS- AUTOMATED NUTRIENT ANALYSES AND MEASUREMENT OF ORGANIC CARBON (X021167 001); 12 MONTHS \$9,800

BYRNE, JOHN V, AND GORDON, LOUIS I; GEOCHEMICAL OCEAN SECTIONS STUDY-GEOSECS-AUTOMATED NUTRIENT ANALYSES AND MEASUREMENT OF ORGANIC CARBON (X021167 002); 18 MONTHS \$111,800

KULM, LAVERNE D; COLLABORATIVE RESEARCH IN AN INVESTIGATION OF THE NASCA LITHOSPHERIC PLATE AND ITS INTERACTION WITH THE SOUTH AMERICAN CONTINENTAL BLOCK (X021175 001); 12 MONTHS \$214,417

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

DUCE, ROBERT A; ATMOSPHERIC POLLUTANT TRANSPORT AND DEPOSITION ON THE SEA SURFACE (X031177); 24 MONTHS \$377,000

TEXAS

TEXAS A & M UNIVERSITY

SACKETT, W M, PRESLEY, B J, AND GIAM, C S; A STUDY PROGRAM TO IDENTIFY PROBLEMS RELATED TO OCEANIC ENVIRONMENTAL QUALITY-GULF OF MEXICO AND CARIBBEAN (X030110); 18 MONTHS \$102,900

UNIV OF TEXAS AT AUSTIN-MARINE SCIENCE INSTITUTE

PARKER, PATRICK L; A BASE-LINE STUDY OF PETROLEUM DERIVED ORGANIC MATTER FOR THE GULF OF MEXICO (X030110); 12 MONTHS \$58,700

WASHINGTON

UNIVERSITY OF WASHINGTON

STUIVER, MINZE; GEOCHEMICALS OCEAN SECTIONS STUDY. GEOSECS-CARBON 14 OCEAN WATER ANALYSES (X021166 001); 18 MONTHS \$80,600

BATTELLE MEMORIAL INSTITUTE-BATTELLE NORTHWEST

ROBERTSON, DAVID E; GEOCHEMICAL OCEAN SECTIONS STUDY.

GEOSECS-CHARACTERIZATION OF GEOGRAPHICAL AND VERTICAL DISTRIBUTION OF A LARGE GROUP OF TRACE ELEMENTS (X02197); 18 MONTHS \$45,000

ENVIRONMENTAL FORECASTING

CALIFORNIA

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

COX, CHARLES S, PARKER, ROBERT L, AND VACQUIER, V; **ELECTROMAGNETIC STUDIES OF THE OCEAN LITHOSPHERE AND OF THE OCEAN WATER CURRENTS AT THE MODE 1 SITE (A03134); 24 MONTHS \$120,200**

COX, CHARLES S, PARKER, ROBERT L, AND VACQUIER, V; **ELECTROMAGNETIC STUDIES OF THE OCEAN LITHOSPHERE AND OF THE OCEAN WATER CURRENTS AT THE MODE 1 SITE (A03134); \$17,100**

HENDERSHOTT, MYRL C; **NUMERICAL EVALUATION OF SUGGESTED MODE-1 SITES (X021153); 12 MONTHS \$30,100**

NIERENBERG, WILLIAM A; **PLANNING GRANT FOR LARGE SCALE AIR-SEA NORTH PACIFIC STUDY (X039481); 6 MONTHS \$27,600**

HENDERSHOTT, MYRL C, DAVIS, RUSS E, AND MUNK, WALTER H; **DESIGN OF THE MID-OCEAN DYNAMICS EXPERIMENT ARRAY AS AN INVERSE PROBLEM (X031677); 12 MONTHS \$14,020**

CONNECTICUT

YALE UNIVERSITY

ROSSBY, T; **MODE 1- SOFAR FLOAT EXPERIMENT, INVERTED ECHOSOUNDER PROJECT, VERTICAL PROFILES OF HORIZONTAL CURRENTS (X039116); 24 MONTHS \$159,600**

ROSSBY, T; **MODE-1-MID-OCEAN DYNAMICS EXPERIMENT- CURRENT MEASUREMENTS BY ACOUSTIC TRACKING OF SUBSURFACE FLOATS, AND ACOUSTIC MEASUREMENTS OF THERMOCLINE DEPTH (X030414 001); 17 MONTHS \$81,900**

UNIVERSITY OF CONNECTICUT-MARINE SCIENCES INSTITUTE

GARVINE, RICHARD W; **EKMAN DYNAMICS STUDIES IN THE COASTAL UPWELLING EXPERIMENT (CUE) (X032212); 12 MONTHS \$12,700**

DISTRICT OF COLUMBIA

NATIONAL ACADEMY OF ENGINEERING

KEIM, S RUSSELL; **TASK ORDER FOR SUPPORT OF U.S. PARTICIPATION IN THE ENGINEERING COMMITTEE ON OCEANIC RESOURCES (ECOR) (C410219); 12 MONTHS \$850**

NATIONAL ACADEMY OF SCIENCES

VETTER, RICHARD C, AND KEIM, S RUSSELL; **SUPPORT OF THE NASOAB-NAEMB PLANNING PANEL ON THE INTL DECADE OF OCEAN EXPLORATION (C910817 001); 1 MONTHS \$1,973**

DEPARTMENT OF NAVY-OFFICE OF NAVAL RESEARCH

PAULI, DENZIL; **SUPPORT OF THE NATIONAL ACADEMY OF ENGINEERING MARINE BOARD (AG002843 001); 12 MONTHS \$4,000**

KIRWAN, A D JR; **SMALL OCEAN DATA STATION (SODS) (AG00330); 12 MONTHS \$250,000**

HOLMQUIST, C O; **THE NORTH PACIFIC EXPERIMENT (NORPAX)-INTERNATIONAL DECADE OF OCEAN EXPLORATION AND OFFICE OF NAVAL RESEARCH JOINT PROGRAM (CA58000); 12 MONTHS \$3,050,000**

FLORIDA

NATIONAL MARINE FISHERIES SERVICE-TROPICAL ATLANTIC

BIOLOGICAL LAB-NMFS

HANSEN, D V, AND CREASE, J; **MID-OCEAN DYNAMICS EXPERIMENT (MGDE) DENSITY PROGRAM (AG00325); 24 MONTHS \$645,900**

UNIVERSITY OF MIAMI-SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES

MOERS, C N K; **FRONTAL CIRCULATION AND MIXING IN CONJUNCTION WITH COASTAL UPWELLING EXPERIMENT (CUE) (X021221); 12 MONTHS \$21,800**

MOERS, C N K, AND VAN LEER, JOHN C; **FRONTAL CIRCULATION AND MIXING IN CONJUNCTION WITH COASTAL UPWELLING EXPERIMENT (CUE) (X021221 001); \$34,900**

MARYLAND

JOHNS HOPKINS UNIVERSITY

BRETHERTON, FRANCIS P; **AN EXPLORATORY STUDY OF SYNOPTIC MAPS FOR MODE-1 (X030113); 12 MONTHS \$35,200**

BRETHERTON, FRANCIS P; **AN EXPLORATORY STUDY OF SYNOPTIC MAPS FOR THE MID-OCEAN DYNAMICS EXPERIMENT-1 (X030113 001); 12 MONTHS \$38,000**

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

AUSTIN, THOMAS S; **DATA MANAGEMENT SERVICES FOR THE INTERNATIONAL DECADE OF OCEAN EXPLORATION (AG00262 001); 12 MONTHS \$46,750**

WHITE, ROBERT M, AND OSTAPOFF, FEODOR; **AIR-SEA INTERACTION AND THE MIXED LAYER IN THE OCEAN (AG00283); 12 MONTHS \$48,300**

HESS, WILMOT N, AND HALPERN, DAVID; **NEAR SURFACE CIRCULATION STUDIES IN A COASTAL UPWELLING ENVIRONMENT (AG00289); 18 MONTHS \$126,300**

HESS, WILMOT N, AND HALPERN, DAVID; **NEAR SURFACE CIRCULATION STUDIES IN A COASTAL UPWELLING ENVIRONMENT (AG00289 001); 13 MONTHS \$102,300**

MASSACHUSETTS

HARVARD UNIVERSITY

BAKER, D JAMES JR; **MODE-1-MID-OCEAN DYNAMICS EXPERIMENT-DEEP-SEA PRESSURE AND ATMOSPHERIC MEASUREMENTS (X022818 001); 30 MONTHS \$172,600**

ROBINSON, ALLAN R; **MODE 1 THEORETICAL STUDIES AND NUMERICAL MODELS (X029033 001); \$6,000**

ROBINSON, ALLAN R; **ANALYTICAL AND NUMERICAL STUDIES OF MESOSCALE MOTIONS BY THE THEORETICAL PANEL FOR THE MID-OCEAN DYNAMICS EXPERIMENT (X029033 002); 12 MONTHS \$60,900**

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

WUNSCH, CARL; **MODE-MID OCEAN DYNAMICS EXPERIMENT-MOORED THERMAL ARRAY (X029033 001); 30 MONTHS \$489,100**

STOMMEL, HENRY M; **ADMINISTRATION OF THE MID-OCEAN DYNAMICS EXPERIMENT (X029033 001); 12 MONTHS \$181,300**

WOODS HOLE OCEANOGRAPHIC INSTITUTION

FOFONOFF, N P, SCHMITZ, W J, AND WEBSTER, FERRIS; **MID OCEAN DYNAMICS EXPERIMENT MOORED CURRENT METER ARRAY (X029034 001); \$210,900**

HASSELMANN, KLAUS F; **INVESTIGATION OF INTERACTIONS BETWEEN SHORT INTERNAL GRAVITY WAVES AND LARGER SCALE MOTIONS IN THE OCEAN (X030109); 12 MONTHS \$37,900**

WEBB, DOUGLAS C; **MODE- SOFAR FLOAT EXPERIMENT (X030220); 36 MONTHS \$481,500**

VOORHIS, ARTHUR D, AND WEBB, DOUGLAS C; **MID-OCEAN DYNAMICS EXPERIMENT 1- NEUTRALLY BUOYANT FLOAT EXPERIMENT (X030220 001); 6 MONTHS \$45,900**

WEBB, DOUGLAS C; **MODE 1-VERTICAL PROFILES OF HORIZONTAL CURRENTS (X030111); 36 MONTHS \$83,200**

WELANDER, PIERRE; **MODE-1- THEORETICAL-NUMERICAL STUDY OF GEOSTROPHIC EDDY MOTIONS IN THE OCEAN (X030718); 6 MONTHS \$13,700**

WALDEN, ROBERT O, AND BERTEAUX, HENRI O; **MODE-1- HYDROPHONE ARRAYS FOR TRACKING SOFAR FLOATS (X038571); 12 MONTHS \$108,600**

WEBSTER, FERRIS; **MID-OCEAN DYNAMICS EXPERIMENT-PHASE 1- HOT LINE (X033043); 24 MONTHS \$33,400**

KATZ, ELI J; **MODE- OBSERVATIONS OF AN ISOPYCNAL SURFACE (X031906); 24 MONTHS \$106,800**

NEW YORK

COLUMBIA UNIVERSITY

POCHAPSKY, T E; **MODE 1- DEEP OCEAN CURRENT FINE STRUCTURE (X030937); 30 MONTHS \$47,000**

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

HAYS, JAMES D; **PALEO-OCEANOGRAPHIC STUDIES OF LATE QUATERNARY OCEAN CIRCULATION AND CLIMATE IN THE NORTHERN ATLANTIC AND PACIFIC OCEANS (X038871 001); 12 MONTHS \$431,000**

OREGON

OREGON STATE UNIVERSITY

BYRNE, JOHN V, AND GORDON, LOUIS I; **GEOSECS- AUTOMATED NUTRIENT ANALYSES AND MEASUREMENT OF ORGANIC CARBON (X022161 001); 12 MONTHS \$9,800**

MOORE, THEODORE C JR; **PALEO-OCEANOGRAPHIC STUDIES OF LATE QUATERNARY OCEAN CIRCULATION AND CLIMATE IN THE NORTHERN ATLANTIC AND PACIFIC OCEANS (X022673 001); 12 MONTHS \$157,700**

SMITH, ROBERT L, AND O'BRIEN, JAMES J; **MESOSCALE DYNAMICS IN A COASTAL UPWELLING REGION (X022714 001); \$198,500**

SMITH, ROBERT L, AND O'BRIEN, JAMES J; **MESOSCALE DYNAMICS IN A COASTAL UPWELLING REGION (X022714 002); 12 MONTHS \$479,700**

RHODE ISLAND

BROWN UNIVERSITY

IMBRIE, JOHN; **PALEO-OCEANOGRAPHIC STUDIES 6- LATE QUATERNARY OCEAN CIRCULATION CLIMATE IN THE NORTHERN ATLANTIC AND PACIFIC OCEANS (X022672 001); 12 MONTHS \$132,100**

UNIVERSITY OF RHODE ISLAND-GRADUATE SCHOOL OF OCEANOGRAPHY

STURGES, WILTON, AND KNAUSS, JOHN A; **MODE-1- BOTTOM-MOUNTED CURRENT METER ARRAY (X031340); 36 MONTHS \$245,300**

TEXAS

MERRILL, WILLIAM J JR; OTHER PROGRAM AWARDS (01AWDS); 15 MONTHS \$42,230

RICE UNIVERSITY

STEBBINGS, R F, AND SPIGER, R J; INVESTIGATION OF THE APPLICATION OF RAMAN SPECTROSCOPY TO QUANTITATIVE ANALYSIS OF SEA WATER (X031603); 12 MONTHS \$18,400

SEA-BED ASSESSMENT

CALIFORNIA

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

MENARD, HENRY W, AND BRUNE, JAMES N; GEOLOGY AND GEOPHYSICS OF THE GULF OF CALIFORNIA (X031704); 12 MONTHS \$148,800

DISTRICT OF COLUMBIA

GEOLOGICAL SURVEY

BERRYHILL, HENRY L JR; SEABED ASSESSMENT PROGRAMS- EASTERN CARIBBEAN SEA, GULF OF MEXICO, BERING SEA, AND WEST AFRICAN SHELF (AG00233 001); 12 MONTHS \$323,500

NATIONAL ACADEMY OF ENGINEERING

KEIM, S RUSSELL; TASK ORDER FOR SUPPORT OF U.S. PARTICIPATION IN THE ENGINEERING COMMITTEE ON OCEANIC RESOURCES (ECOR) (CJ10219*); 12 MONTHS \$850

NATIONAL ACADEMY OF SCIENCES

VETTER, RICHARD C; SUPPORT OF A WORKSHOP ON DYNAMICS OF THE MID-ATLANTIC RIDGE (C110229); 12 MONTHS \$36,600

HAWAII

UNIVERSITY OF HAWAII

WOOLLARD, GEORGE P; AN INVESTIGATION OF THE NASCA LITHOSPHERIC PLATE AND ITS INTERACTION WITH THE SOUTH AMERICAN CONTINENTAL BLOCK (X041874 001); \$7,900

MARYLAND

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

AUSTIN, THOMAS S; DATA MANAGEMENT SERVICES FOR THE INTERNATIONAL DECADE OF OCEAN EXPLORATION (AG00188 001*); 12 MONTHS \$46,750

HESS, WILMOT N, AND HALPERN, DAVID; NEAR SURFACE CIRCULATION STUDIES IN A COASTAL UPWELLING ENVIRONMENT (AG00299 001*); 13 MONTHS \$8,050

WHITE, ROBERT M, AND BURNS, ROBERT E; AN INVESTIGATION OF THE NASCA LITHOSPHERIC PLATE (AG00329); 48 MONTHS \$338,000

MASSACHUSETTS

WOODS HOLE OCEANOGRAPHIC INSTITUTION

EMERY, K O; THE EASTERN ATLANTIC CONTINENTAL MARGIN (X021183 001); 24 MONTHS \$586,900

HEIRTZLER, JAMES; MID ATLANTIC RIDGE PLANNING CONFERENCE (X031717); 6 MONTHS \$9,100

NEW YORK

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

EWING, MAURICE; WORLD'S SEABED MANGANESE DEPOSITS, DISTRIBUTION, ORIGIN, GROWTH AND EVALUATION (X030475); 6 MONTHS \$19,200

EWING, MAURICE; WORLD'S SEABED MANGANESE DEPOSITS, DISTRIBUTION, ORIGIN, GROWTH AND EVALUATION (X030475 001); 6 MONTHS \$12,744

GERARD, ROBERT; ESTABLISH A COORDINATOR'S OFFICE, RESOURCES OF THE SEABED AND PUBLISH EXISTING DATA ON ENGINEERING, PHYSICAL, AND CHEMICAL DATA ON THE SEABED (X033118); 12 MONTHS \$80,700

BRYAN, GEORGE M, EWING, M, TALWANI, M, PITMAN, W, AND HAYES, D; A GEOPHYSICAL STUDY OF THE CONTINENTAL MARGIN OF ARGENTINA AND BRAZIL (X034110); 12 MONTHS \$345,400

GERARD, ROBERT D; FERROMANGANESE DEPOSITS OF THE OCEAN FLOOR AN INTER-UNIVERSITY PROGRAM OF RESEARCH (X034039); 12 MONTHS \$181,600

OREGON

OREGON STATE UNIVERSITY

KULM, LA VERNE D; AN INVESTIGATION OF THE NASCA LITHO-

SPHERIC PLATE AND ITS INTERACTION WITH THE SOUTH AMERICAN CONTINENTAL BLOCK (X021813 001); \$7,900

KULM, LAVERNE D; COLLABORATIVE RESEARCH IN AN INVESTIGATION OF THE NASCA LITHOSPHERIC PLATE AND ITS INTERACTION WITH THE SOUTH AMERICAN CONTINENTAL BLOCK (X021813 002*); 12 MONTHS \$128,314

LIVING RESOURCES

MARYLAND

NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION

AUSTIN, THOMAS S; DATA MANAGEMENT SERVICES FOR THE INTERNATIONAL DECADE OF OCEAN EXPLORATION (AG00188 001*); 12 MONTHS \$46,750

HESS, WILMOT N, AND HALPERN, DAVID; NEAR SURFACE CIRCULATION STUDIES IN A COASTAL UPWELLING ENVIRONMENT (AG00299 001*); 13 MONTHS \$2,850

WASHINGTON

UNIVERSITY OF WASHINGTON

DUODALE, RICHARD C; COASTAL UPWELLING ECOSYSTEMS ANALYSIS PROGRAM (CUEA) (X033308); 20 MONTHS \$907,000

WISCONSIN

INSTITUTE OF ECOLOGY

HASLER, ARTHUR D; CONSULTATIVE SERVICES FOR THE LIVING RESOURCES PROGRAM OF THE INTERNATIONAL DECADE OF OCEAN EXPLORATION (X034878); 12 MONTHS \$20,400

OTHER NATIONAL AND SPECIAL PROGRAMS

OCEAN SEDIMENT CORING PROGRAM

CALIFORNIA

GALEHOUSE, JON S; OTHER PROGRAM AWARDS (01AWDS); 12 MONTHS \$37,220

UNIVERSITY OF CALIFORNIA, SAN DIEGO

NIERENBERG, WILLIAM A; DRILLING OF SEDIMENTS IN THE PACIFIC AND ATLANTIC OCEANS AND ADJACENT SEAS, NSF-C-48 (C482000 047*); \$367,501

NIERENBERG, WILLIAM A; DRILLING OF SEDIMENTS IN THE PACIFIC AND ATLANTIC OCEANS AND ADJACENT SEAS, CONTRACT NSF-C-48 (C482000 028); \$260,000

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

NIERENBERG, WILLIAM A; DRILLING OF SEDIMENTS IN THE PACIFIC AND ATLANTIC OCEANS AND ADJACENT SEAS (C482000 042); 12 MONTHS \$1,500,000

NIERENBERG, WILLIAM A; DRILLING OF SEDIMENTS IN THE PACIFIC AND ATLANTIC OCEANS AND ADJACENT SEAS, NSF-C-48 (C482000 043); \$3,500,000

NIERENBERG, WILLIAM A; DRILLING OF SEDIMENTS IN THE PACIFIC AND ATLANTIC OCEANS AND ADJACENT SEAS, NSF-C-48 (C482000 045); 6 MONTHS \$3,000,000

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (10A11DS); \$233,279

MARYLAND

DEPARTMENT OF COMMERCE-NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION-WEATHER BUREAU

KORNMAN, ALLAN G; METEOROLOGICAL SUPPORT OF THE DEEP SEA DRILLING OPERATIONS (CA07000 001); 14 MONTHS \$52,000

NEW YORK

COLUMBIA UNIVERSITY-LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

EWING, JOHN I; SURVEYS OF DSDP DRILLING SITES (A028338 002); \$10,000

INTERNATIONAL BIOLOGICAL PROGRAM

ALASKA

UNIVERSITY OF ALASKA

WEST, GEORGE C; THE STRUCTURE AND FUNCTION OF THE TUNDRA ECOSYSTEM (V028144 X02*); 12 MONTHS \$330,000

ARIZONA

UNIVERSITY OF ARIZONA

LOWE, CHARLES H; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 1 (B027153 001); 12 MONTHS \$35,500

CALIFORNIA

CALIFORNIA STATE UNIVERSITY, SAN DIEGO

JOHNSON, ALBERT W; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 4 (B047141 001); 12 MONTHS \$173,000

STANFORD UNIVERSITY

MOONEY, HAROLD A; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 5 (B047151 001); 12 MONTHS \$19,000

UNIVERSITY OF CALIFORNIA, BERKELEY

COLWELL, ROBERT K; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 11 (B041185); 12 MONTHS \$15,000

HUFFAKER, C B; THE PRINCIPLES, STRATEGIES AND TACTICS OF PEST POPULATION REGULATION AND CONTROL IN MAJOR CROP ECOSYSTEMS (B047178); 10 MONTHS \$300,000

UNIVERSITY OF CALIFORNIA, DAVIS

BARBOUR, MICHAEL O; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 10 (B041196); 12 MONTHS \$9,000

UNIVERSITY OF CALIFORNIA, LOS ANGELES

TROWER, NORMAN J W; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 8 (B047154 001); 12 MONTHS \$27,500

UNIVERSITY OF CALIFORNIA, RIVERSIDE

ASCIMANN, H HOMER; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 9 (B047155 001); 12 MONTHS \$9,800

DEBACH, PAUL; THE ROLE OF ENTOMOPHAGOUS INSECTS IN POPULATION REGULATION OF ARMORED SCALE INSECTS (B04044 X00); 12 MONTHS \$40,000

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

MOLDENKE, ANDREW R; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 12 (B041194); 12 MONTHS \$14,000

COLORADO

COLORADO STATE UNIVERSITY

VANDYNE, GEORGE M; ANALYSIS OF STRUCTURE, FUNCTION, AND UTILIZATION OF GRASSLAND ECOSYSTEMS (B041844 X00); 12 MONTHS \$2,053,000

VAN DYNE, GEORGE M; ANALYSIS OF STRUCTURE, FUNCTION, AND UTILIZATION OF GRASSLAND ECOSYSTEMS (B041862 X01); \$2,000

UNIVERSITY OF COLORADO

NICHOLS, HARVEY; CONTEMPORARY ATMOSPHERIC TRANSPORT AND FALLOUT OF BOREAL FOREST POLLEN IN THE CANADIAN NORTHWEST TERRITORIES (B044497); 12 MONTHS \$35,500

CONNECTICUT

UNIVERSITY OF CONNECTICUT

LAUGHLIN, WILLIAM S; ALIUT ADAPTATION TO THE BERING LAND BRIDGE COASTAL CONFIGURATION (B023426 001); 12 MONTHS \$133,900

DISTRICT OF COLUMBIA

NATIONAL ACADEMY OF SCIENCES

OLIVER, RICHARD H; SUPPORT OF THE U. S. NATIONAL COMMITTEE FOR THE INTERNATIONAL BIOLOGICAL PROGRAM (C310098 014); 11 MONTHS \$150,000

SMITHSONIAN INSTITUTION

HURD, PAUL D JR; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 15 (B041191); 12 MONTHS \$10,600

GEORGIA

UNIVERSITY OF GEORGIA

ROSS, HERBERT H; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 14 (B041192); 12 MONTHS \$13,200

HAWAII

BERNICE P BISHOP MUSEUM

GRESSITT, J LINSLEY; COLLABORATIVE RESEARCH ON STABILITY AND EVOLUTION OF ISLAND ECOSYSTEMS (B044075 001); 12 MONTHS \$119,200

UNIVERSITY OF HAWAII

BERGER, ANDREW J, AND MUELLER-DOMBOIS, D; COLLABORATIVE RESEARCH ON STABILITY AND EVOLUTION OF ISLAND ECOSYSTEMS (B044430 002); 12 MONTHS \$205,100

BERGER, ANDREW J; STABILITY AND EVOLUTION OF ISLAND ECOSYSTEMS (B044430 003); 3 MONTHS \$5,200

ILLINOIS

UNIVERSITY OF ILLINOIS AT URBANA

SELANDER, RICHARD B; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 16 (B041190); 12 MONTHS \$11,400

UNIVERSITY OF ILLINOIS AT URBANA-AGRICULTURAL EXPERIMENT STATION

DRAPER, HAROLD H; NUTRITION OF ESKIMOS IN NORTHERN ALASKA (B044361 001); 12 MONTHS \$41,800

MARYLAND

ATOMIC ENERGY COMMISSION

NEEL, JAMES V; AREA PROGRAM IN POPULATION GENETICS (AG00290 002); 12 MONTHS \$162,200

JOHNS HOPKINS UNIVERSITY

RAY, G CARLETON; BIOLOGICAL BASIS OF PRODUCTIVITY AND CONSERVATION IN MARINE MAMMALS (B044409); 12 MONTHS \$64,900

MASSACHUSETTS

HARVARD UNIVERSITY-HERBARIUM

SOLBRIG, OTTO T; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 1 (B047148 001); 12 MONTHS \$45,900

SOLBRIG, OTTO T; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 3 (B047150 001); 12 MONTHS \$45,400

NORTH CAROLINA

DUKE UNIVERSITY

CULBERSON, WILLIAM L; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 2 (B041172); 12 MONTHS \$20,000

PENNSYLVANIA

PENNSYLVANIA STATE UNIVERSITY

BAKER, PAUL S; COORDINATION OF IRPS IN THE HUMAN ADAPTABILITY COMPONENT OF THE USIIBP (B047632 001); 12 MONTHS \$75,300

TENNESSEE

OAK RIDGE NATIONAL LABORATORY

AUERBACH, STANLEY I; ANALYSIS OF THE STRUCTURE AND FUNCTION OF ECOSYSTEMS IN THE DECIDUOUS FOREST BIOME (AG00189 001); 12 MONTHS \$1,992,300

TEXAS

UNIV OF TEXAS AT AUSTIN

BLAIR, W FRANK; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 6 (B047154 001); 12 MONTHS \$98,000

BLAIR, W FRANK; COORDINATION OF INTEGRATED RESEARCH PROGRAMS IN THE ENVIRONMENTAL MANAGEMENT COMPONENT OF THE USIIBP (B047452 001); 12 MONTHS \$117,600

UTAH

UTAH STATE UNIVERSITY

GOODALL, DAVID W; ANALYSIS OF STRUCTURE AND FUNCTION OF DESERT ECOSYSTEMS (B044159 X00); 12 MONTHS \$1,402,000

WASHINGTON

UNIVERSITY OF WASHINGTON

DUGDALE, RICHARD C; DYNAMICS OF BIOLOGICAL PRODUCTION IN UPWELLING ECOSYSTEMS (R011443 002); 12 MONTHS \$180,000

GESSEL, STANLEY P; CONIFEROUS FOREST BIOME (B020963 001); 6 MONTHS \$166,600

GESSEL, STANLEY; CONIFEROUS FOREST BIOME, (B020963 002); 12 MONTHS \$1,270,000

GESSEL, STANLEY; WESTERN CONIFEROUS FOREST BIOME (B020963 003); \$37,000

ORIAN, GORDON H; COLLABORATIVE RESEARCH ON STRUCTURE OF ECOSYSTEMS, PART 13 (B041193); 12 MONTHS \$35,000

GLOBAL ATMOSPHERIC RESEARCH PROGRAM

CALIFORNIA

UNIVERSITY OF CALIFORNIA, LOS ANGELES

YANAI, MICHIO; DYNAMICS OF TROPICAL WAVE DISTURBANCES (A031694); 24 MONTHS \$124,100

MINTZ, YALE, AND ARAKAWA, AKIO; NUMERICAL SIMULATION OF THE ATMOSPHERIC GENERAL CIRCULATION (A034406 X00); 6 MONTHS \$130,200

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

FOSTER, THEODORE D, AND REARWIN, STEPHEN; AIR-SEA INTERACTION STUDIES - MEASUREMENT OF THE TOTAL HEAT FLOW FROM THE SEA SURFACE (A027581 001); 12 MONTHS \$61,000

COLORADO

COLORADO STATE UNIVERSITY

BAER, FERDINAND; LARGE-SCALE ATMOSPHERIC FLOW UTILIZING SPECTRAL EQUATIONS (A011637 001); 12 MONTHS \$94,600

COX, STEPHEN K, AND VONDER HAAR, THOMAS H; REDUCTION AND ANALYSIS OF THE WISCONSIN RADIATION EXPERIMENT DATA COLLECTED DURING BOMEX (A014744 001); \$14,000

COX, STEPHEN K, AND VONDER HAAR, THOMAS H; REDUCTION AND ANALYSIS OF THE WISCONSIN RADIATION EXPERIMENT DATA COLLECTED DURING BOMEX (A014744 002); \$20,200

VONDER HAAR, THOMAS H; USE OF SATELLITE OBSERVATIONS IN SUPPORT OF THE SCIENCE OBJECTIVES OF METEOROLOGICAL FIELD PROGRAMS (A031588); 12 MONTHS \$36,500

GRAY, WILLIAM M; STUDIES OF CUMULUS HEATING AND THE CISK MECHANISM (A038549 X00); 18 MONTHS \$82,200

RIEHL, HERBERT; MESOSCALE ASPECTS OF SYNOPTIC DISTURBANCES OVER A TROPICAL CONTINENT (A039188); 12 MONTHS \$29,400

CONNECTICUT

CENTER FOR THE ENVIRONMENT AND MAN INC

PANDOLFO, JOSEPH P; NUMERICAL MODEL STUDIES OF THE PLANETARY BOUNDARY LAYERS OF THE ATMOSPHERE AND OCEANS (A097914 001); \$44,200

ROBINSON, G D; VALIDITY OF METEOROLOGICAL PREDICTION EQUATIONS AND THE SPECTRUM OF ATMOSPHERIC MOTION (A024417 001); \$16,500

DISTRICT OF COLUMBIA

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

SIEVERS, JOHN R; ACTIVITIES OF THE U. S. COMMITTEE FOR THE GLOBAL ATMOSPHERIC RESEARCH PROGRAM (C310187 001); 12 MONTHS \$26,700

FLORIDA

FLORIDA STATE UNIVERSITY

KRISHNAMURTI, T N; GLOBAL TROPICAL WEATHER SYSTEMS (A017882 001); 24 MONTHS \$117,000

KRISHNAMURTI, T N; GLOBAL TROPICAL WEATHER SYSTEMS (A017882 002); \$4,100

STEPHENS, JESSE J; FOUR-DIMENSIONAL METEOROLOGICAL DATA ANALYSIS FOR THE GLOBAL ATMOSPHERIC RESEARCH PROGRAM (A031234); 24 MONTHS \$34,900

GLEESON, THOMAS A; PREDICTABILITY IN METEOROLOGY (A038533); 24 MONTHS \$46,800

UNIVERSITY OF MIAMI-SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES

PROSPERO, JOSEPH M; A STUDY OF THE STRUCTURE AND DYNAMICS OF THE AFRICAN DUST LAYER OVER THE EQUATORIAL ATLANTIC OCEAN DURING BOMEX (A031194); 12 MONTHS \$24,500

ESTOQUE, MARIANO A; WAVE DISTURBANCES IN THE TROPICAL ATLANTIC (A031615); 12 MONTHS \$50,900

KRAUS, ERIC B; PATTERNS OF CONVECTION AND THE EVOLUTION OF STRATIFICATION IN LOW LATITUDES (A034811); 12 MONTHS \$110,000

ILLINOIS

UNIVERSITY OF CHICAGO

FUJITA, T THEODORE; MESOSCALE CLOUD-MOTION FIELDS FOR GATE/GARP PROGRAM (A031589); 24 MONTHS \$91,200

KAPLAN, LEWIS D; INFRARED FLUX IN THE EARTH'S ATMOSPHERE (A032934); 24 MONTHS \$113,100

MARYLAND

UNIVERSITY OF MARYLAND, COLLEGE PARK

RODENHUIS, DAVID R; EQUATORIAL WAVES DRIVEN BY CONVECTION (A032778); 24 MONTHS \$39,900

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LORENZ, EDWARD N; INVESTIGATION OF THE PREDICTABILITY OF THE ATMOSPHERE AND OTHER SYSTEMS (A028204 X01); 12 MONTHS \$55,500

CHARNEY JULE G; DYNAMICS OF LARGE-SCALE ATMOSPHERIC AND OCEANIC PROCESSES (A029781 X01); 12 MONTHS \$132,100

OCEAN-ATMOSPHERE RESEARCH INSTITUTE

SHELL, IRVING I; LARGE-SCALE INERTIAL OCEAN-ATMOSPHERE RELATIONSHIPS AND THEIR SIGNIFICANCE FOR LONG-RANGE FORESHADOWING (A017808 004); 24 MONTHS \$79,200

WOODS HOLE OCEANOGRAPHIC INSTITUTION

BUNKER, A F; TURBULENCE AND FLUXES IN THE BOUNDARY LAYERS OF UNDISTURBED AND DISTURBED TRADE WINDS (A031568); 12 MONTHS \$51,400

NEW HAMPSHIRE

KRAICHNAN, ROBERT H; TURBULENCE DYNAMICS AND PREDICTABILITY (A036614 001); 12 MONTHS \$18,000

NEW YORK

NEW YORK UNIVERSITY

DELAND, RAYMOND J; FLUCTUATIONS OF PLANETARY-SCALE WAVES (A015480 001); 6 MONTHS \$13,000

DELAND, RAYMOND J; FLUCTUATIONS OF PLANETARY-SCALE WAVES (A015480 002); 2 MONTHS \$22,000

OKLAHOMA

UNIVERSITY OF OKLAHOMA

EDDY, AMOS; STATISTICAL ASPECTS OF METEOROLOGICAL DATA ARCHIVING (A016054 001); 24 MONTHS \$108,000

SASAKI, YOSHIKAZU; WEATHER AND ENVIRONMENTAL ANALYSIS TECHNIQUES DEVELOPMENT PROGRAM (A030976); 24 MONTHS \$104,000

OREGON

OREGON STATE UNIVERSITY

BURT, WAYNE V; MESOSCALE WIND FIELD OVER THE UPWELLING AREA OFF THE OREGON COAST (A018004 001); \$16,100

VIRGINIA

UNIVERSITY OF VIRGINIA

GARSTANO, MICHAEL; TURBULENT STRUCTURE OF THE LOW LATITUDE SUBCLOUD LAYER (A031901); 12 MONTHS \$116,000

WASHINGTON

UNIVERSITY OF WASHINGTON

REED, RICHARD J, AND WALLACE, JOHN M; GLOBAL METEOROLOGY (A034339); 24 MONTHS \$206,700

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

HOUGHTON, DAVID D; THEORY AND TECHNIQUES OF GLOBAL INITIALIZATION FOR NUMERICAL PREDICTION MODELS (A018118 002); 24 MONTHS \$87,700

YOUNG, JOHN A; THEORETICAL AND NUMERICAL STUDIES ON THE DYNAMICS OF WIND SYSTEMS (A030876); 12 MONTHS \$39,400

MARTIN, DAVID W, AND SIKDAR, DHIRENDRA N; DYNAMIC AND THERMODYNAMIC FEATURES OF ITS OBSERVED ATLANTIC CLOUD CLUSTERS (A031184); 12 MONTHS \$41,200

INTERNATIONAL COOPERATIVE SCIENTIFIC ACTIVITIES

COOPERATIVE SCIENCE PROGRAMS

ALASKA

UNIVERSITY OF ALASKA-GEOPHYSICAL INSTITUTE

BENSON, CARL S; METAMORPHISM OF SNOW AND ITS TRANSFORMATION INTO GLACIER ICE IN PACIFIC AND ARCTIC AREAS (F028983); 23 MONTHS \$10,500

ARKANSAS

UNIVERSITY OF ARKANSAS

BLYHOLDER, GEORGE; DEVELOPING THEORETICAL MODELS OF ABSORPTION (F033141); 12 MONTHS \$14,500

CALIFORNIA

SOLOMON, HAROLD; INFLUENCE ON THE DEVELOPMENT OF THE KUROSHIO MEANDER SOUTH OF HONSHU (F000414); 12 MONTHS \$7,400

KENNEDY, GEORGE C; INDIA-U.S. EXCHANGE OF SCIENTISTS (F030041); 6 MONTHS \$1,430

ASIA FOUNDATION

PIERSON, HARRY H; SCIENTIFIC AND TECHNICAL PROGRAMS WITH THE REPUBLIC OF CHINA (F045011); 24 MONTHS \$75,000

STANFORD UNIVERSITY

ASHLEY, HOLT; COLLABORATIVE RESEARCH IN THE FIELD OF DYNAMIC AEROELASTICITY (F045004); 12 MONTHS \$23,200

UNIVERSITY OF CALIFORNIA, BERKELEY

SNYDER, WILLIAM C; TAXONOMY AND NOMENCLATURE OF 'GIBBERELLA (FUSARIUM) MONILIFORME' (F000388 001); 24 MONTHS \$5,000

SATIR, PETER; CELLULAR CONTROL OF CILIARY MOTION (F033165); 9 MONTHS \$4,200

UNIVERSITY OF CALIFORNIA, DAVIS

RYUGO, KAY; FUNGAL ISOLATES OF CERATOCYSTIS FIMBRIATA (F033164); 7 MONTHS \$12,100

COLORADO

YLLER, EDUARDO; OTHER PROGRAM AWARDS (01AWDS); 10 MONTHS \$21,450

COLORADO SCHOOL OF MINES

LEROY, L W; ENGINEERING GEOLOGY, SUBSURFACE GEOLOGY, PHOTO GEOLOGY AND SELENOLOGY (F00014), 10 MONTHS \$13,400

COLORADO STATE UNIVERSITY

SHEN, HSHIH WEN; RIVER MECHANICS (F033209); 12 MONTHS \$16,700

CONNECTICUT

UNIVERSITY OF CONNECTICUT

BOHN, ROBERT K; BOND LENGTHS IN STRAINED COMPOUNDS (F020984); 12 MONTHS \$18,300

DISTRICT OF COLUMBIA

SINGH, NARINDER M; INDIA-UNITED STATES EXCHANGE OF SCIENTISTS (F030733); 6 MONTHS \$2,064

UDUPA, H V K; INDIA-UNITED STATES EXCHANGE OF SCIENTISTS (F031883); 2 MONTHS \$1,585

JAYARAMAN, R; INDIA-U.S. EXCHANGE OF SCIENTISTS (F032551); 2 MONTHS \$1,820

NONE; OTHER PROGRAM AWARDS (01AWDS); \$104,509

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE

BEVAN, WILLIAM; EXCHANGE OF SCIENTISTS WITH THE ALL-UNION SOCIETY 'ZNAIYE' U.S.S.R. (F031825*); 36 MONTHS \$16,060

AMERICAN CHEMICAL SOCIETY

WALL, FREDERICK W; AN EMINENT SCIENTIST EXCHANGE PROGRAM INVOLVING CHEMISTS FROM THE UNITED STATES AND JAPAN (F033547); 24 MONTHS \$24,850

CARNEGIE INSTITUTION OF WASHINGTON

SACKS, I SELWYN; HIGH SENSITIVITY STRAIN MEASUREMENT IN AN EARTHQUAKE REGION, USING BOREHOLE STRAINMETERS (F000122 001); 12 MONTHS \$2,500

COURTESY TRAVEL SERVICE

MARILLEY, JANE E; ADMINISTRATIVE SERVICES IN SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (C374000 011); \$176,000

MARILLEY, JANE E; ADMINISTRATIVE SERVICES IN SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (C374000 013); 6 MONTHS \$104,000

MARILLEY, JANE E; ADMINISTRATIVE SERVICES IN SUPPORT OF INTERNATIONAL SCIENCE ACTIVITIES SPONSORED BY THE NATIONAL SCIENCE FOUNDATION (C374000 014); \$25,000

DEPARTMENT OF LABOR

PASCHKE, PAUL; PLACEMENT AND SUPPORT OF ROMANIAN TRAINEES IN THE UNITED STATES UNDER THE NSF ADMINISTERED U.S.-ROMANIA SCIENCE AND TECHNOLOGY EXCHANGE AND COOPERATION PROGRAM (CA63000); 12 MONTHS \$12,000

NATIONAL ACADEMY OF SCIENCES

RABINOWITCH, VICTOR; PARTIAL SUPPORT OF A U.S.-BRAZILIAN PROGRAM FOR BRAZILIAN DEVELOPMENT OF POSTGRADUATE RESEARCH IN CHEMISTRY (C310184 002); 12 MONTHS \$47,400

RABINOWITCH, VICTOR; PARTIAL SUPPORT OF A U.S.-BRAZILIAN PROGRAM FOR BRAZILIAN DEVELOPMENT OF POST-GRADUATE RESEARCH IN CHEMISTRY (C310184 003); 12 MONTHS \$54,000

TODD, W MURRAY; JOINT SYMPOSIUM ON SCIENCE POLICY WITH BULGARIAN ACADEMY OF SCIENCES (C310238); 4 MONTHS \$22,800

KEATLEY, ANN; EXCHANGE OF SCIENTISTS BETWEEN THE UNITED STATES AND THE PEOPLE'S REPUBLIC OF CHINA (C310249); 12 MONTHS \$100,000

DEPT. OF COMMERCE-OFFICE OF SECRETARY-DOC

WAKELIN, JAMES H JR; A CTAB STUDY OF TECHNOLOGICAL TRANSFER TO DEVELOPING COUNTRIES (AG00074); 12 MONTHS \$25,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

MITCHELL, LAWRENCE C; EXCHANGE OF SCIENTISTS BETWEEN THE NATIONAL ACADEMY OF SCIENCES, U.S.A., AND THE ACADEMIES OF THE UNION OF SOVIET SOCIALIST REPUBLICS, POLAND, YUGOSLAVIA, ROMANIA, HUNGARY, CZECHOSLOVAKIA, AND BULGARIA (C110019 018); 13 MONTHS \$913,364

FLORIDA

UNIVERSITY OF MIAMI-SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES

ESTOQUE, MARIANO; MESOMETEOROLOGICAL EFFECTS OF LAKE ONTARIO (F033208); 24 MONTHS \$2,400

GEORGIA

UNIVERSITY OF GEORGIA

JANZEN, EDWARD G; SPIN TRAPPING OF DIRADICALS (F031822); 6 MONTHS \$8,400

HERZ, NORMAN; RADIOCARBON AGE DATING OF THE BLACK SEA PLATFORM AND THE DANUBE DELTA OF ROMANIA (F033008); 24 MONTHS \$5,500

HAWAII

UNIVERSITY OF HAWAII

ADEY, WALTER H, AND WOOLLARD, GEORGE P; A QUANTITATIVE ECOLOGICAL COMPARISON OF THE COAST OF HOKKAIDO AND THE NORTH ATLANTIC BASED ON CRUSTOSE CORALLINES (F031117); 12 MONTHS \$3,000

HSIAO, SIDNEY C; DEVELOPMENTAL BIOLOGY (F031418); 10 MONTHS \$18,526

ABRAMSON, NORMAN; PACIFIC EDUCATIONAL COMPUTER NETWORK STUDY (F032209*); 24 MONTHS \$5,500

ILLINOIS

UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER

OMACHI, AKIRA; STUDIES IN PYRIDINE NUCLEOTIDE BIOCHEMISTRY (F032308); 6 MONTHS \$2,200

UNIVERSITY OF ILLINOIS AT URBANA

WERT, CHARLES A, AND ALTSTETTER, CARL J; THE INTERACTION OF PLASTIC DEFORMATION AND IRRADIATION WITH PRECIPITATES IN BCC ALLOYS (F032983); 24 MONTHS \$1,400

INDIA

DORAISWAMY, L K; INDIA-UNITED STATES EXCHANGE OF SCIENTISTS (F031438); 2 MONTHS \$2,004

PAKRASHI, SATYESH C; INDIA-UNITED STATES EXCHANGE OF SCIENTISTS (F032549); 3 MONTHS \$3,130

CENTRAL GLASS & CERAMICS RESEARCH INSTITUTE

MUKERJI, J; INDIA-UNITED STATES EXCHANGE OF SCIENTISTS (F032901 X00); 6 MONTHS \$2,820

IOWA

UNIVERSITY OF IOWA

GORDON, GILBERT; EFFECT OF ANIONS AND PHOTO-CHEMICALLY PRODUCED INTERMEDIATES ON THE URANIUM EXCHANGE REACTIONS (F031519); 24 MONTHS \$2,600

KANSAS

KANSAS STATE UNIVERSITY

FAN, LIANG-TSENG; SYSTEMS ENGINEERING APPROACH TO THE ENVIRONMENTAL POLLUTION CONTROL (F030549); 24 MONTHS \$5,600

LOUISIANA

COWIN, S C; INDIA-U.S. EXCHANGE OF SCIENTISTS (F032350); 1 MONTHS \$1,540

MARYLAND

KLAYMAN, DANIEL L; INDIA-UNITED STATES EXCHANGE OF SCIENTISTS (F031260); 2 MONTHS \$1,390

NONE; OTHER PROGRAM AWARDS (03AWDS); \$15,062

AMERICAN TYPE CULTURE COLLECTION

HWANG, SHUH-WEI; FEEDING HABITS OF THE GREY MULLET FRY AND ALGAE CULTURE FOR FEEDING EXPERIMENTS (F031331); 7 MONTHS \$2,400

JOHNS HOPKINS UNIVERSITY-SCHOOL OF HYGIENE & PUBLIC HEALTH

COMSTOCK, GEORGE W; COMPARATIVE STUDY OF RISK FACTORS (ENVIRONMENTAL AND BIOLOGIC) AFFECTING CARDIOVASCULAR AND RESPIRATORY DISORDERS (F032220); 24 MONTHS \$9,200

MASSACHUSETTS

HARVARD UNIVERSITY

RAMSEY, NORMAN F; A NEUTRON ELECTRIC DIPOLE MOMENT EXPERIMENT AT GRENOBLE (F031169*); 48 MONTHS \$11,100

KUNO, SUSUMU; COMPUTER INPUT-OUTPUT OF CHINESE CHARACTERS (F031408); 24 MONTHS \$7,200

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DRESSELHAUS, MILDRED S; ELECTRONIC PROPERTIES OF GRAPHITE (F031384); 24 MONTHS \$5,600

MICHIGAN

MICHIGAN STATE UNIVERSITY

WANG, CHANG-YI; *PERTURBATION METHODS OF APPLIED MATHEMATICS* (F000444); 9 MONTHS \$17,900

WAYNE STATE UNIVERSITY

KIRSCHNER, STANLEY; *CONFERENCE ON IMPROVING INTERNATIONAL COOPERATION IN SCIENCE* (F031748); 6 MONTHS \$5,600

KIRSCHNER, STANLEY; *BIOINORGANIC CHEMISTRY. COMPOUNDS OF ANTIVIRAL AND ANTICANCER EFFECT, COMPLEXES OF SMALL MOLECULES* (F033009); 36 MONTHS \$31,600

NEW HAMPSHIRE

DARTMOUTH COLLEGE

HUGGINS, ELISHA R; *LOW TEMPERATURE PHYSICS. QUANTUM FLUIDS* (F031350); 10 MONTHS \$14,400

NEW YORK

HORECKER, BERNARD L; *INDIA-U.S. EXCHANGE OF SCIENTISTS* (F030490); 6 MONTHS \$1,000

BROOKHAVEN LABORATORY

HOUGH, P V C; *DEVELOPMENT AND FABRICATION OF AN AUTOMATIC MEASURING DEVICE (FLYING IMAGE DIGITIZER) FOR BUBBLE CHAMBER PHOTOGRAPHS* (AG00278); 24 MONTHS \$5,500

COLUMBIA UNIVERSITY

EBREY, THOMAS G; *BIOPHYSICAL STUDIES OF VISUAL PIGMENTS* (F031453); 9 MONTHS \$3,000

NEW YORK MEDICAL COLLEGE

ASANUMA, HIROSHI; *MOTOR CONTROL* (F031250); 24 MONTHS \$5,900

ASANUMA, HIROSHI; *MOTOR CONTROL* (F031250 001); \$1,100

RENSSELAER POLYTECHNIC INSTITUTE

GERHARDT, LESTER A; *ADAPTIVE PROCESSING, FILTERING, AND DESIGN OF DIGITAL SIGNALS* (F034348); 24 MONTHS \$4,400

WANG, LEON R L; *CONTEMPORARY STRUCTURAL RESEARCH, ANALYSIS AND DESIGN* (F034199); 11 MONTHS \$15,500

LING, FREDERICK F; *FLUID MECHANICS AND TURBULENCE WITH APPLICATIONS IN TRIBOLOGY* (F035005); 24 MONTHS \$63,400

COLUMBIA UNIVERSITY-COLLEGE OF PHYSICIANS AND SURGEONS

WANG, HSUEH-HWA; *CARDIOVASCULAR PHARMACOLOGY/CNS CONTROL OF REGIONAL BLOOD FLOW IN MONKEYS* (F030798); 6 MONTHS \$2,200

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

HADY, M ABDEL, AND MUSTAFA, HASAN; *APPLICATIONS OF MODERN AIRBORNE REMOTE SENSING AND AERIAL RECONNAISSANCE TECHNIQUES TO AGRICULTURE AND REGIONAL DEVELOPMENT* (F031268 001*); 12 MONTHS \$2,800

PENNSYLVANIA

MALENBAUM, WILFRED; *INDIA-UNITED STATES EXCHANGE OF SCIENTISTS* (F030085); 6 MONTHS \$1,370

FILACHIONE, EDWARD M; *INDIA-UNITED STATES EXCHANGE OF SCIENTISTS* (F032240); 3 MONTHS \$1,400

UNIVERSITY OF PITTSBURGH

FULLER, MICHAEL, AND SCHMIDT, VICTOR A; *INVESTIGATIONS OF THE FIELD REVERSALS USING TERTIARY INTRUSIVE ROCKS EXPOSED IN THE CIRCUM-PACIFIC REGIONS* (F034418); 24 MONTHS \$5,500

LYNCH, RICHARD V III; *BIOCHEMICAL STUDIES OF LIGHT-EMITTING COMPONENTS OF JAPANESE FISH AND CRUSTACEA* (F032307); 12 MONTHS \$12,200

PRATT, RICHARD H, AND GAVRILA, MIHA; *COOPERATIVE STUDIES OF PHOTON ABSORPTION IN MATTER* (F034985); 36 MONTHS \$71,900

UNIVERSITY OF PENNSYLVANIA-SCHOOL OF MEDICINE

YONETANI, TAKASHI, AND BRITTON, CHANCE; *MAGNETIC, OPTICAL, AND KINETIC PROPERTIES OF HEMOPROTEINS* (F031520); 24 MONTHS \$5,200

TENNESSEE

DUCKETT, KERMIT E; *INDIA-U.S. EXCHANGE OF SCIENTISTS* (F031679); 6 MONTHS \$1,140

PURCELL, WILLIAM P; *INDIA-U.S. EXCHANGE OF SCIENTISTS* (F032213); 12 MONTHS \$1,610

TEXAS

UNIV OF TEXAS AT DALLAS

COLLINS, CARL B; *A U.S. - ROMANIAN JOINT RESEARCH PROJECT ON ATOMIC AND PLASMA PHYSICS* (F000444 001); 24 MONTHS \$113,150

VIRGINIA

DICKEY, JOHN W; *INDIA-U.S. EXCHANGE OF SCIENTISTS* (F030368); 1 MONTHS \$1,420

NONE; *OTHER PROGRAM AWARDS (08AWDS)*; \$38,411

VIRGINIA POLYTECHNIC INSTITUTE

GOTOW, KAZUO; *NUCLEON MOMENTUM DISTRIBUTION AND NUCLEON RESONANCE IN ELECTRON NUCLEAR SCATTERING* (F031249); 10 MONTHS \$15,200

WASHINGTON

UNIVERSITY OF WASHINGTON

FARNER, DONALD S; *ENVIRONMENT AND NEUROENDOCRINE FUNCTION* (F033334); 24 MONTHS \$6,700

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

MYERS, PHILLIP B, BORMAN, GARY L, NEWHALL, HENRY K, AND UYEHARA, OTTO A; *UNDERSTANDING AND CONTROLLING EXHAUST POLLUTANTS FROM INTERNAL COMBUSTION ENGINES* (F033004 X00); 12 MONTHS \$50,200

U.S. PARTICIPATION IN PLANNING AND DEVELOPING INT'L SCIENCE PROJECTS

DISTRICT OF COLUMBIA

NATIONAL ACADEMY OF SCIENCES

ROWAN, EDMUND C; *INTERNATIONAL ORGANIZATIONS AND PROGRAMS PROJECT* (C310040 011); 12 MONTHS \$344,000

KELLERMANN, HENRY J; *PARTIAL SUPPORT OF THE COMMITTEE FOR INTERNATIONAL ENVIRONMENTAL PROGRAMS* (C310185 005*); 9 MONTHS \$30,000

DUNHAM, CHARLES L; *U.S. NATIONAL COMMITTEE FOR THE INTERNATIONAL BRAIN RESEARCH ORGANIZATION (IBRO)* (C310444*); 12 MONTHS \$1,400

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

MITCHELL, LAWRENCE C; *SUPPORT OF SPECIAL COMMITTEE FOR THE CELEBRATION OF THE COPERNICUS QUINQUECENTENNIAL* (C310280); 28 MONTHS \$3,000

DYER, EDWARD R, AND WOOD, GEORGE W; *TASK ORDER FOR SUPPORT OF THE U.S. NATIONAL COMMITTEES FOR THE INTERNATIONAL ASTRONOMICAL UNION AND THE INTERNATIONAL UNION OF THEORETICAL AND APPLIED MECHANICS* (C310227); 12 MONTHS \$18,400

ODISHAW, HUGH; *FOURTEENTH GENERAL ASSEMBLY OF THE INTERNATIONAL UNION OF PURE AND APPLIED PHYSICS* (C310438); 16 MONTHS \$19,000

BERG, JOSEPH W JR; *U.S. EXHIBIT FOR THE INTERNATIONAL GEOGRAPHICAL CONGRESS* (C310246); 12 MONTHS \$4,657

DILLON, ROBERT M; *SUPPORT OF UNITED STATES PARTICIPATION IN THE SECOND INTERNATIONAL CONFERENCE ON PERMAFROST, YAKUTSK, USSR, JULY 1973* (C310247); 18 MONTHS \$77,600

MARYLAND

UNIVERSITY OF MARYLAND, COLLEGE PARK

GARDNER, MARJORIE; *INTERNATIONAL CONFERENCE ON THE EDUCATION OF TEACHERS FOR INTEGRATED SCIENCE* (F031645); 24 MONTHS \$5,000

MASSACHUSETTS

AMERICAN ACADEMY OF ARTS AND SCIENCES

VOSS, JOHN; *SUPPORT OF U.S. JOINT COMMITTEE FOR THE INTERNATIONAL CENTRE OF INSECT PHYSIOLOGY AND ECOLOGY IN NAIROBI, KENYA (UCIPE)* (F000407 002*); 12 MONTHS \$24,200

MINNESOTA

INTERNATIONAL STUDIES ASSOCIATION

SLOUKA, ZDENEK, AND TURNER, JOHN; *PARTIAL SUPPORT OF PARTICIPANTS IN THE ROUNDTABLE ON STUDIES IN WORLD SCIENCE AND TECHNOLOGY AFFAIRS, MARCH 17, 1974, DALLAS, TEXAS* (F034878); 6 MONTHS \$1,400

TENNESSEE

UNIVERSITY OF TENNESSEE, KNOXVILLE

OLSON, JERRY S; *INTERNATIONAL WORKSHOPS ON ANALYSIS OF WORLD ECOSYSTEMS* (F034676); 12 MONTHS \$15,000

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

HASLER, ARTHUR D; *SUPPORT FOR INTERNATIONAL ASSOCIATION FOR ECOLOGY* (F034723 X01*); 12 MONTHS \$30,000

INTERNATIONAL TRAVEL PROGRAM

ALABAMA

LAMOREAUX, PHILIP E; TO ATTEND- MEETING OF THE I.A.H. COMMITTEE ON HYDROGEOLOGY OF KARST, BEING HELD IN MONTPELLIER, FRANCE, SEPTEMBER 27 - OCTOBER 2, 1971 (A051018); 6 MONTHS \$430

LEAR, W EDWARD; TRAVEL TO DEVELOP COOPERATIVE PROJECT WITH SCIENTISTS AT THE UNIVERSITY OF TEHRAN (F043834); 6 MONTHS \$682

ABRAMSON, H N; TRAVEL TO ATTEND- SYMPOSIUM ON FLOW-INDUCED STRUCTURAL VIBRATIONS, KARLSRUHE, GERMANY, AUGUST 14-18, 1972 (K033000); 6 MONTHS \$200

COLBURN, CHARLES B; TRAVEL TO ATTEND- ANNUAL MEETING OF THE CHEMICAL SOCIETY, MANCHESTER, ENGLAND, APRIL 10-14, 1972 (F043998); 6 MONTHS \$452

ARIZONA

MORRIS, THOMAS M; TRAVEL TO ATTEND- JOINT MEETING OF THE MINING AND METALLURGICAL INSTITUTE OF JAPAN AND THE AMERICAN INSTITUTE OF MINING AND METALLURGICAL ENGINEERS, TOKYO, JAPAN, MAY 24-28, 1972 (H033184); 6 MONTHS \$860

HUELSMAN, LAWRENCE P; TO ATTEND- THE SUMMER SCHOOL ON CIRCUIT THEORY 1971, TALE, LOW TATRA MOUNTAINS, CZECHOSLOVAKIA, SEPTEMBER 14-18, 1971 (K030440); 6 MONTHS \$250

MATTSON, ROY H; TRAVEL TO ATTEND- POPOV SOCIETY MEETING, MOSCOW, USSR, MAY 1972 (K033934); 6 MONTHS \$700

HALL, H K JR; TRAVEL - TO VISIT PROMINENT EUROPEAN POLYMER RESEARCH INSTITUTES, IN ENGLAND, BELGIUM AND FRANCE, APRIL 10-24, 1972 (F032149); 6 MONTHS \$52

FELTEN, JAMES B; TRAVEL SUPPORT TO ATTEND- SYMPOSIUM ON X- AND GAMMA-RAY ASTRONOMY (NON-SOLAR), MADRID, SPAIN, MAY 11-15, 1972 (F044498); 6 MONTHS \$736

PIPE, PAUL C; TO ATTEND- CZECHOSLOVAK CONFERENCE ON DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS, BRNO, CZECHOSLOVAKIA, AUGUST 22-SEPTEMBER 2, 1972 (F034958); 6 MONTHS \$942

O'DONOVAN, PATRICK J; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON DUALITY IN ELEMENTARY PARTICLES, LOUVAIN, BELGIUM, AUGUST 30 - SEPTEMBER 16, 1971 (Z002145); 6 MONTHS \$664

SYLVESTER, GARRETT S; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON MATHEMATICS OF CONTEMPORARY PHYSICS, LONDON, ENGLAND, AUGUST 23 - SEPTEMBER 11, 1971 (Z002149); 6 MONTHS \$193

CALIFORNIA

NELSON, CARLTON HANS; TO ATTEND- A CONFERENCE ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS, TRONDHEIM, NORWAY, AUGUST 22-30, 1972 AND THE EIGHTH INTERNATIONAL SEDIMENTOLOGICAL CONGRESS, HEIDELBERG, GERMANY, AUGUST 30 - SEPTEMBER 4, 1971 (A030129); 6 MONTHS \$445

INGLE, JAMES C JR; TO ATTEND- THE EIGHTH INTERNATIONAL SEDIMENTOLOGICAL CONGRESS, HEIDELBERG, WEST GERMANY, AUGUST 30 - SEPTEMBER 4, 1971 (A030131); 6 MONTHS \$622

BANDY, ORVILLE L; TO ATTEND- THE TWELFTH MICROPALONTOLOGICAL COLLOQUIUM, UKRAINIAN SSR AND MOLDAVIAN SSR, U.S.S.R., SEPTEMBER 12-22, 1971 (A030577); 6 MONTHS \$1,066

TYLER, JOHN E; TO ATTEND- THE SYMPOSIUM ON AQUATIC PHOTOBIOLOGY, LONDON, ENGLAND, JANUARY 18-20, 1972 (A031806); 6 MONTHS \$473

SMITH, RAYMOND C; TRAVEL TO ATTEND- SYMPOSIUM ON OPTICS OF THE SEA, COPENHAGEN, DENMARK JUNE 12-22, 1972 (A033008); 6 MONTHS \$782

EWART, TERRY E; TRAVEL TO ATTEND- SYMPOSIUM OF THE INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA (ICES), AARHUS, DENMARK, JULY 4-7, 1972 (A033001); 6 MONTHS \$718

AUSTIN, ROSWELL W; TRAVEL TO ATTEND- SYMPOSIUM ON OPTICAL ASPECTS OF OCEANOGRAPHY, COPENHAGEN, DENMARK, JUNE 12-22, 1972 (A033003); 6 MONTHS \$481

THORNE, RICHARD M; TRAVEL TO ATTEND- COSPAR (SYMPOSIUM ON CRITICAL PROBLEMS OF MAGNETOSPHERIC PHYSICS), MADRID, SPAIN, MAY 10-24, 1972 (A033451); 6 MONTHS \$765

MOZER, FORREST S; TRAVEL TO ATTEND- COSPAR, FIFTEENTH PLENARY MEETING, MADRID, SPAIN, MAY 10-24, 1972 (A033453); 6 MONTHS \$792

BANDY, ORVILLE L; TRAVEL TO ATTEND- INTERNATIONAL COLLOQUIUM ON THE BOUNDARY BETWEEN NEOGENE AND QUATERNARY, KISHINEV AND TBILISI, U.S.S.R., MAY 22-JUNE 4, 1972 (A033049); 6 MONTHS \$885

NEIBURGER, MORRIS; TO ATTEND- THE INTERNATIONAL CLOUD PHYSICS CONFERENCE, LONDON, ENGLAND, AUGUST 21-26, 1972 (A034489); 6 MONTHS \$595

COOPER, CHARLES F; TO ATTEND- UNESCO INTERGOVERNMENTAL COORDINATING COUNCIL, PARIS, FRANCE, NOVEMBER 2-19, 1971 (B031593); 6 MONTHS \$1,110

WOODWARD, DOW O; TO ATTEND- GOLDEN JUBILEE OF THE INDIAN INSTITUTE OF SCIENCE, BANGALORE, INDIA, DECEMBER 3-8, 1971 (B031600); 6 MONTHS \$1,250

AXELROD, DANIEL I; TO ATTEND- SILVER JUBILEE OF THE BIRBAL SAHNI INSTITUTE OF PALEOBOTANY, LUCKNOW, INDIA, DECEMBER 8-11, 1971 (B031644); 6 MONTHS \$1,280

GREEN, MELVIN M; SECOND CONFERENCE OF THE U.S.S.R. SOCIETY OF GENETICS AND SELECTION, MOSCOW, USSR, JANUARY 21-FEBRUARY 5, 1972 (B033028); 6 MONTHS \$703

SYMPHER, PAUL S; TRAVEL TO ATTEND- EUROPEAN MOLECULAR BIOLOGY ORGANIZATION WORKSHOP ON RIBOSOMES, FRANCE, APRIL 12-18 (B033245); 6 MONTHS \$748

COHN, MELVIN; TRAVEL TO ATTEND- BIOCHEMISTRY OF GENE EXPRESSION IN HIGHER ORGANISMS, AUSTRALIA, MAY 1972 (B033348); 6 MONTHS \$637

CAMPBELL, J A; TRAVEL TO ATTEND- THIRD NATIONAL CONGRESS OF YUGOSLAV CHEMISTS, LJUBLJANA, YUGOSLAVIA, JUNE 12-17, 1972 (F044001); 6 MONTHS \$516

POLLAK, MICHAEL; TO ATTEND- MEETING ON AMORPHOUS AND LIQUID SEMICONDUCTORS, LONDON, ENGLAND, DECEMBER 17-18, 1971 (H031288 001); \$182

HARRISON, WALTER A; TRAVEL SUPPORT TO ATTEND- THE SPRING SCHOOL 1972 ON THE ELECTRONIC STRUCTURE OF ALLOYS AND TRANSITION METALS, GAUSSIG, GERMAN DEMOCRATIC REPUBLIC, APRIL 1972 (H033216); 6 MONTHS \$879

GOODKIND, JOHN W; TRAVEL SUPPORT TO ATTEND- THE EUROPHYSICS STUDY CONFERENCE, ALBE, FRANCE, APRIL 11-14, 1972 (H032811); 6 MONTHS \$620

HUMPHREY, FLOYD B; TRAVEL TO ATTEND- INTERNATIONAL CONFERENCE ON MAGNETICS, KYOTO AND THE INTERNATIONAL (FIFTH) COLLOQUIUM ON MAGNETIC THIN FILMS, MT. FUJI AREA, JAPAN, APRIL 10-19, 1972 (H033085); 6 MONTHS \$740

PORTIS, ALAN M; TRAVEL TO ATTEND- MEETING ON PERSPECTIVES FOR HYPERFINE INTERACTIONS IN MAGNETICALLY ORDERED SYSTEMS, L'AQUILA, ITALY, SEPTEMBER 11-15, 1972 (H034760); 6 MONTHS \$942

JACCARINO, VINCENT; TRAVEL TO ATTEND- CONGRESS AMPERE, TURKU, FINLAND AND H.F. INTERACT. IN MAG. MAKR, L'AQUILA, ITALY, AUGUST 21 - SEPTEMBER 14, 1972 (H034800); 6 MONTHS \$600

NICOL, MALCOLM F; TRAVEL TO ATTEND- THIRD INTERNATIONAL CONFERENCE ON RAMAN SPECTROSCOPY, REIMS, FRANCE, SEPTEMBER 6-12, 1972 (H034901); 6 MONTHS \$314

WALKER, DONALD E; TO ATTEND- THE SECOND INTERNATIONAL JOINT CONFERENCE ON ARTIFICIAL INTELLIGENCE, LONDON, ENGLAND, SEPTEMBER 1-3, 1971 (J030383); 6 MONTHS \$360

MUNSON, JOHN H; TRAVEL TO ATTEND- SECOND INTERNATIONAL JOINT CONFERENCE ON ARTIFICIAL INTELLIGENCE, LONDON, ENGLAND, SEPTEMBER 1-3, 1971 (J030381); 6 MONTHS \$350

DILLIGAN, ROBERT J; TRAVEL SUPPORT TO ATTEND- THE SYMPOSIUM ON THE USE OF THE COMPUTER IN LITERARY RESEARCH, EDINBURGH, SCOTLAND, MARCH 27-30, 1972 (J033086); 6 MONTHS \$238

WEINGARTEN, FRED W; TRAVEL TO ATTEND- INTERNATIONAL ON-LINE 76 MEETING, UXBRIDGE UNIVERSITY, ENGLAND, SEPTEMBER 4-7, 1972 (J034438); 6 MONTHS \$650

FERRARI, DOMENICO; TRAVEL TO ATTEND- INTERNATIONAL COMPUTING SYMPOSIUM, VENICE, ITALY, APRIL 12 - 14, 1972 (J033333); 6 MONTHS \$491

NIELSEN, NORMAN R; TRAVEL TO ATTEND- FIFTH AUSTRALIAN COMPUTER CONFERENCE, BRISBANE, AUSTRALIA, MAY 22-26, 1972 (J034456); 6 MONTHS \$200

NOORANY, I; TO ATTEND - INTERNATIONAL CONFERENCE ON OCEAN ENGINEERING UNDER ARCTIC CONDITIONS TRONDHEIM, NORWAY - AUGUST 23 - 30, 1971 (K030099); 6 MONTHS \$400

EVERHART, THOMAS E; TO ATTEND- SIXTH INTERNATIONAL CONFERENCE ON X-RAY OPTICS AND MICROANALYSIS - OSAKA, JAPAN - SEPTEMBER 5-10, 1971 (K030170); 6 MONTHS \$500

CHELAPATI, C V; TO ATTEND- THE FIRST INTERNATIONAL CONFERENCE ON STRUCTURAL MECHANICS IN REACTOR TECHNOLOGY, BERLIN, GERMANY, SEPTEMBER 20-24, 1971 (K030252); 6 MONTHS \$350

GOREN, SIMON L; TO ATTEND- THE INTERNATIONAL SYMPOSIUM ON TWO-PHASE SYSTEMS, HAIFA, ISRAEL, AUGUST 20 TO SEPTEMBER 2, 1971 (K030398); 6 MONTHS \$600

MAXWORTHY, TONY; TO ATTEND- THE THIRD INTERNATIONAL COLLOQUIUM ON GASDYNAMICS OF EXPLOSIONS AND REACTIVE SYSTEMS, MARSEILLE, FRANCE, SEPTEMBER 12-17, 1971 (K030430); 6 MONTHS \$500

OPPENHEIM, A K; TO ATTEND- THE THIRD INTERNATIONAL COLLOQUIUM ON GASDYNAMICS OF EXPLOSIONS AND REACTIVE SYSTEMS, MARSEILLE, FRANCE, SEPTEMBER 12-17, 1971 (K030431); 6 MONTHS \$500

MIKA, THOMAS S; TO ATTEND- THE THIRD EUROPEAN SYMPOSIUM ON SIZE REDUCTION, CANNES, FRANCE, OCTOBER 5-8, 1971 (K030440); 6 MONTHS \$450

LESKOVAR, BRANKO; TO ATTEND- THE 1971 IEEE INTERNATIONAL SYMPOSIUM ON ELECTRICAL NETWORK THEORY, LONDON, ENGLAND, SEPTEMBER 2-10, 1971 (K030445); 6 MONTHS \$230

- KUH, ERNEST S; TO ATTEND- THE 1971 IEEE INTERNATIONAL SYMPOSIUM ON ELECTRICAL NETWORK THEORY, LONDON, ENGLAND, SEPTEMBER 4-10, 1971 (K030148); 6 MONTHS \$260
- MITRA, S K; TO ATTEND- THE 1971 IEEE INTERNATIONAL SYMPOSIUM ON ELECTRICAL NETWORK THEORY, LONDON, ENGLAND, SEPTEMBER 4-10, 1971 (K030148); 6 MONTHS \$260
- JOHNSTON, JAMES P; TO ATTEND- THE SPECIALISTS' MEETING ON 'TURBULENT SHEAR FLOWS,' LONDON, ENGLAND, SEPTEMBER 13-15, 1971 (K030143); 6 MONTHS \$480
- WILKE, CHARLES R; TRAVEL TO ATTEND- THE FOURTH INTERNATIONAL FERMENTATION SYMPOSIUM, KYOTO, JAPAN, MARCH 19-25, 1972 (K030144); 6 MONTHS \$660
- SKLANSKY, JACK; TRAVEL TO- RESEARCH ON TRAINABLE PATTERN RECOGNITION, HAIFA, ISRAEL, AUGUST 7, 1972-JULY 15, 1973 (K041132); 12 MONTHS \$340
- WILSON, KENT R; TO ATTEND- TENTH INTERNATIONAL SYMPOSIUM ON FREE RADICALS, LYON, FRANCE, AUGUST 31 - SEPTEMBER 3, 1971 SIXTH INTERNATIONAL CONFERENCE ON PHOTOCHEMISTRY, BORDEAUX, FRANCE, SEPTEMBER 4-8, 1971 (P030164); 6 MONTHS \$922
- LEE, EDWARD K C; TO ATTEND- SIXTH INTERNATIONAL CONFERENCE ON PHOTOCHEMISTRY, BORDEAUX, FRANCE, SEPTEMBER 4-8, 1971 (P030170); 6 MONTHS \$890
- WHEELER, JOHN C; TO ATTEND- CONFERENCE ON CRITICAL PHENOMENA, LINDAU, WEST GERMANY, SEPTEMBER 21-24, 1971 (P030177); 6 MONTHS \$632
- CLARK, W GILBERT; TO ATTEND- FOURTH INTERNATIONAL SYMPOSIUM ON MAGNETIC RESONANCE, REHOVOT AND JERUSALEM, ISRAEL, AUGUST 23-31, 1971 (P030248); 6 MONTHS \$911
- EKLOF, PAUL C; TO ATTEND- CAMBRIDGE SUMMER SCHOOL IN MATHEMATICAL LOGIC, CAMBRIDGE, ENGLAND, AUGUST 1-31, 1971 (P030399); 6 MONTHS \$265
- WALECKA, JOHN D; TO ATTEND- THE FOURTH INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE, DUBNA, U.S.S.R., SEPTEMBER 7-11, 1971 (P030434); 6 MONTHS \$1,129
- CONTI, PETER S; TO ATTEND- THE INTERNATIONAL SYMPOSIUM ON WOLF-RAYET AND HOT STARS, LA PLATA, ARGENTINA, AUGUST 12-21, 1971 (P030472); 6 MONTHS \$400
- BARLOW, RICHARD E; TO ATTEND- THE FOURTH CONFERENCE ON PROBABILITY THEORY, BRASOV, ROMANIA, SEPTEMBER 12-18, 1971 AND THE SIXTH PRAGUE CONFERENCE ON INFORMATION THEORY, STATISTICAL DECISION FUNCTIONS AND RANDOM PROCESSES, PRAGUE, CZECHOSLOVAKIA, SEPTEMBER 18-24, 1971 (P030537); 6 MONTHS \$732
- PARKS, JOEL H; TO ATTEND- THE SYMPOSIUM ON FUNDAMENTAL AND APPLIED LASER PHYSICS, ESFAHAN, IRAN, AUGUST 29 - SEPTEMBER 5, 1971 (P030639); 6 MONTHS \$900
- CAHILL, THOMAS A; TO ATTEND- MEETING ON CHEMICAL ANALYSIS BY CHARGED PARTICLE BOMBARDMENT, BRUSSELS, BELGIUM, SEPTEMBER 6-8, 1971 (P031050); 3 MONTHS \$784
- GUIRAGOSSIAN, ZAVEN G T; TO REPORT ON NEW PARTICLE DETECTOR SYSTEM AT 1971 MEETING, YEREVAN, ARMENIA, USSR, NOVEMBER 22-DECEMBER 4, 1971 (P031191); 6 MONTHS \$812
- ANTOSIEWICZ, HENRY A; TO DO RESEARCH AND LECTURE IN EUROPE AND ATTEND SYMPOSIA IN ENGLAND, FRANCE, AND MEXICO, FEBRUARY 1, 1972 THROUGH SEPTEMBER 1, 1972 (P032361); 12 MONTHS \$893
- RIEFFEL, MARC A; TO ATTEND- INFORMAL GATHERING OF MATHEMATICIANS AND PHYSICISTS OF THE CENTRE UNIVERSITAIRE ET EXPERIMENTAL DE MARSEILLE LUMINARY AND GROUPE DE PHYSIQUE THEORIQUE DU C.N.R.S. MARSEILLE, FRANCE, JUNE-JULY 1972 (P033318); 6 MONTHS \$949
- ADAMSON, ARTHUR W; TRAVEL TO- INTERNATIONAL CONFERENCE 'CHEMISTRY AT INTERFACES,' ROVINJ, YUGOSLAVIA, JUNE 27-JULY 8, 1972 (P031623); 6 MONTHS \$995
- DAUBEN, WILLIAM G; TRAVEL TO- FOURTH INTERNATIONAL SYMPOSIUM ON PHOTOCHEMISTRY, BADEN-BADEN, GERMANY, JULY 16-22, 1972 (P031707); 6 MONTHS \$822
- HARRIS, ROBERT A; TRAVEL TO- CONDUCT RESEARCH AT CAMBRIDGE UNIVERSITY, CAMBRIDGE, ENGLAND, AUGUST 20-DECEMBER 20, 1972 (P034790); 12 MONTHS \$791
- STREITWIESER, ANDREW JR; TRAVEL TO- FIRST INTERNATIONAL IUPAC MEETING ON PHYSICAL ORGANIC CHEMISTRY, CRANS SUR SIERRRE, SWITZERLAND, SEPTEMBER 1-5, 1972 (P041820); 6 MONTHS \$864
- BRAUMAN, JOHN I; TRAVEL TO- IUPAC CONFERENCE ON PHYSICAL ORGANIC CHEMISTRY, CRANS SUR SIERRRE, SWITZERLAND, SEPTEMBER 3-5, 1972 (P034821); 6 MONTHS \$870
- PITTS, JAMES N JR; TRAVEL TO- FIRST IUPAC CONFERENCE ON PHYSICAL ORGANIC CHEMISTRY, CRANS SUR SIERRRE, SWITZERLAND, SEPTEMBER 1-5, 1972 (P041826); 6 MONTHS \$899
- LINGENFELTER, RICHARD E; TRAVEL TO- SEMINAR ON THE PROBLEM OF THE GENERALITY OF PARTICLE ACCELERATION OF VARIOUS SCALES IN COSMOS, AUGUST 16-18, 1972 (P034830); 6 MONTHS \$1,114
- TAYLOR, HOWARD S; TRAVEL TO- INTERNATIONAL CONFERENCE ON MOLECULAR SPECTROSCOPY, WROCAW, POLAND, SEPTEMBER 15-19, 1972 (P034848); 6 MONTHS \$880
- JAMES, ROBERT C; TO ATTEND- INTERNATIONAL SYMPOSIUM ON PARTIAL DIFFERENTIAL EQUATIONS AND THE GEOMETRY OF NORMED SPACES, JERUSALEM, ISRAEL, JUNE 19-28, 1972 (P034855); 6 MONTHS \$507
- FRICKE, MARTIN P; TRAVEL TO ATTEND- INTERNATIONAL CONFERENCE ON THE STUDY OF NUCLEAR STRUCTURE WITH NEUTRONS, KESZTHELY, HUNGARY, JULY 21-AUGUST 8, 1972 (P034911); 6 MONTHS \$725
- ROSENTHAL, HASKELL P; TO ATTEND- INTERNATIONAL SYMPOSIUM ON PARTIAL DIFFERENTIAL EQUATIONS AND NORMED LINEAR SPACES, JERUSALEM, ISRAEL, JUNE 19-28, 1972 (P034960); 6 MONTHS \$604
- BANDER, MYRON; TRAVEL TO- SERVE AS CONSULTANT AT RUTHERFORD HIGH ENERGY LABORATORY, HARWELL, ENGLAND, JULY 3-31, 1972 (P035012); 6 MONTHS \$442
- RISEBROUGH, ROBERT W; TRAVEL TO- VISIT MARINE STATION AT MARSEILLES AND WORK WITH DR. MONOD, APRIL-MAY 1972 (V032737); 6 MONTHS \$986
- GUNDERSON, E K ERIC; TRAVEL TO ATTEND- SCARHIPS SYMPOSIUM ON HUMAN BIOLOGY AND MEDICINE IN THE ANTARCTIC, SCOTT POLAR RESEARCH INSTITUTE, CAMBRIDGE, ENGLAND, SEPTEMBER 19-21, 1972 (V033786); 6 MONTHS \$741
- SITES, MICHAEL J; TRAVEL SUPPORT TO ATTEND- SCAR SYMPOSIUM ON ANTARCTIC TELECOMMUNICATIONS, SANDEFJORD, NORWAY, MAY 10-16, 1972 (V034555); 6 MONTHS \$835
- YACQUIER, VICTOR D; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON MOLECULAR AND DEVELOPMENTAL BIOLOGY, ERICE, SICILY, JULY 27 - AUGUST 8, 1971 (Z002231); 6 MONTHS \$680
- YAMARTINO, ROBERT J; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON DUALITY IN ELEMENTARY PARTICLES, LOUVAIN, BELGIUM, AUGUST 30 - SEPTEMBER 18, 1971 (Z002235); 6 MONTHS \$313
- SANTI, DANIEL V; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON MOLECULAR AND DEVELOPMENTAL BIOLOGY, ERICE, SICILY, JULY 27 - AUGUST 8, 1971 (Z002244); 6 MONTHS \$732
- PLACHY, WILLIAM Z; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON ELECTRON SPIN RELAXATION IN LIQUIDS, SPATIND, NORWAY, AUGUST 16-22, 1971 (Z002247); 6 MONTHS \$560
- SMITH, ROULETTE W; SYMPOSIUM ON HUMAN THINKING ST MAX-IMIN FRANCE AUGUST 17-20, 1971 (Z002250); 6 MONTHS \$402
- CANDE, WILLIAM Z; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON MODERN ASPECTS OF HORMONAL REGULATION IN PLANT GROWTH AND DEVELOPMENT, IZMIR, TURKEY, SEPTEMBER 20 - OCTOBER 1, 1971 (Z002255); 6 MONTHS \$564
- LESSER, VICTOR R; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON MICROPROGRAMMING, ST. RAPHAEL, FRANCE, AUGUST 30 - SEPTEMBER 10, 1971 (Z002260); 6 MONTHS \$566
- HOPKINS, DAVID W; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON PHYTOCHROME, ATHENS, GREECE, AUGUST 30 - SEPTEMBER 17, 1971 (Z002267); 6 MONTHS \$566
- SHANABARGER, MICKEY R; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON FUNDAMENTAL PRINCIPLES IN HETEROGENEOUS CATALYSIS, VENICE, ITALY, SEPTEMBER 19 - OCTOBER 2, 1971 (Z002269); 6 MONTHS \$576
- LIENTZ, BENNET P; ADV ST INST ON MATH PROG IN THEORY & PRACT COIMBRA PORTUGAL 6/18-21/72 (Z002341); 6 MONTHS \$256
- MUENZ, LARRY R; ADV ST INST ON DISCRIMINANT ANALYSIS & APPLICATIONS ATHENS GR 6/18-20/72 (Z002342); 6 MONTHS \$761
- FELDMAN, LEONARD; 2ND INTERNAT CONGRESS ON MATHEMATICAL EDUC EXETER ENGLAND 8/18-9/1/72 (Z002346); 6 MONTHS \$510
- DOWNS, FLOYD L; THE 2ND INTERNAL CONGRESS ON MATH ED EXETER ENG 8/29-9/1/72 (Z002349); 6 MONTHS \$444
- PRESS, WILLIAM H; ADV ST INST ON BLACKHOLE ASTROPHYSICS LES HOUCES FRANCE 7/31-8/30/72 (Z002353); 6 MONTHS \$437
- LOH, ELWYN Y; ADV ST INST ON MOLE&CELL ASPECTS/IMMUNOL CARRY-LE-ROUET FRAN 6/11-10/72 (Z002358); 6 MONTHS \$489
- LINZ, PETER; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON PADE APPROXIMANTS AND THEIR APPLICATIONS AT KENT, ENGLAND JULY 2-10, 1972 (Z002369); 6 MONTHS \$289
- GRAGG, WILLIAM B JR; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON PADE APPROXIMANTS AND THEIR APPLICATIONS AT KENT, ENGLAND JULY 2-13, 1972 (Z002375); 6 MONTHS \$518
- AUSLANDER, DAVID M; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON THEORY AND PRACTICE OF SYSTEMS IDENTIFICATION AND MODELLING AT TOULOUSE, FRANCE ON JULY 17-28, 1972 (Z002380); 6 MONTHS \$690
- DOUGLAS, MARVIN H; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON ELECTROMAGNETIC INTERACTIONS OF ELEMENTARY SYSTEMS AT CARGESE, FRANCE, JULY 2-29, 1972 (Z002384); 6 MONTHS \$545
- THACKER, HARRY B JR; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON HIGH-LIGHTS IN PARTICLE PHYSICS AT ERICE, ITALY, JULY 7-29, 1972 (Z002398); 6 MONTHS \$534
- KLEIN, CLAUDETTE; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON MOLECULAR AND CELL BIOLOGY AT SPETSAL, GREECE, AUGUST 14-29, 1972 (Z002603); 6 MONTHS \$771

UNIVERSITY OF CALIFORNIA, RIVERSIDE

POLLAK, MICHAEL; TO ATTEND MEETING ON AMORPHOUS AND LIQUID SEMICONDUCTORS, LONDON, ENGLAND, DECEMBER 17-18, 1971 (H031882); 6 MONTHS \$570

COLORADO

THOMPSON, RICHARD R; TO ATTEND THE INTERNATIONAL COMMITTEE FOR COAL PETROLOGY, KREFELD, GERMANY, AUGUST 30-28, 1971 (A032531); 6 MONTHS \$475

VONDER HAAR, THOMAS H; TRAVEL TO ATTEND INTERNATIONAL RADIATION SYMPOSIUM, SENDAI, JAPAN, MAY 24 - JUNE 3, 1974 (A032833); 6 MONTHS \$600

COX, STEPHEN K; TRAVEL TO ATTEND INTERNATIONAL RADIATION SYMPOSIUM, SENDAI, JAPAN, MAY 26 - JUNE 2, 1974 (A032785); 6 MONTHS \$713

MURCRAY, DAVID G; TRAVEL SUPPORT TO ATTEND INTERNATIONAL RADIATION SYMPOSIUM, SENDAI, JAPAN, MAY 26 - JUNE 2, 1974 (A032788); 6 MONTHS \$870

PATTON, CARL E; TRAVEL TO ATTEND INTERNATIONAL CONFERENCE ON MAGNETICS, KYOTO AND FIFTH INTERNATIONAL COLLOQUIUM ON MAGNETIC THIN FILMS, MT. FUJI, JAPAN, APRIL 10-19, 1974 (H033058); 6 MONTHS \$542

CERMAK, J E; TO ATTEND THE THIRD INTERNATIONAL CONFERENCE ON WIND EFFECTS ON BUILDINGS AND STRUCTURES, TOKYO, JAPAN, SEPTEMBER 6-11, 1971 (K030482); 6 MONTHS \$500

GUSTAFSON, KARL E; TO ATTEND A CONFERENCE ON LINEAR OPERATORS AND APPROXIMATION, OBERWOLFACH, GERMANY, AUGUST 14-24, 1971 (P030181); 6 MONTHS \$236

WALTON, HAROLD F; TO ATTEND THE INTERNATIONAL CONGRESS OF ANALYTICAL CHEMISTRY, KYOTO, JAPAN, APRIL 3-7, 1974 (P032862); 6 MONTHS \$692

BOSE, RAJ C; TO ATTEND INSTITUTE ON FINITE GEOMETRIC STRUCTURES AND THEIR APPLICATIONS, BRESSANONE, ITALY, JUNE 18-27, 1974 (P032331); 6 MONTHS \$837

STICKLER, WILLIAM C; TRAVEL SUPPORT TO ATTEND THE ANNUAL MEETING OF THE CHEMICAL SOCIETY AND THE ROYAL INSTITUTE OF CHEMISTRY, MANCHESTER, ENGLAND, APRIL 10-14, 1974 (P048715); 6 MONTHS \$297

MOHILNER, DAVID M; TRAVEL SUPPORT TO ATTEND MEETING ON THE ELECTRICAL DOUBLE LAYER, BRISTOL, ENGLAND, APRIL 17-19, 1974 (P038732); 6 MONTHS \$326

LEMASURIER, WESLEY E; TO ATTEND THE SYMPOSIUM ON THE GEOMORPHOLOGY OF POLAR REGIONS, ABERDEEN, SCOTLAND, JANUARY 4-8, 1972 (V031402); 6 MONTHS \$650

KRIER, NICHOLAS; ADV ST INST ON FINITE GEOMETRIC STRUCT BRESSANONE ITALY 6118-87174 (Z002371); 6 MONTHS \$694

CONNECTICUT

WATERMAN, TALBOT H; TRAVEL TO ATTEND IAPSO SYMPOSIUM ON OPTICS OF THE SEA, COPENHAGEN, DENMARK, JUNE 19-22, 1972 (A033311); 6 MONTHS \$658

GILES, NORMAN HENRY; SECOND CONFERENCE OF THE U.S.S.R. SOCIETY OF GENETICS AND SELECTION, MOSCOW, U.S.S.R., JANUARY 31 - FEBRUARY 5, 1974 (B032027); 6 MONTHS \$798

SCAVUZZO, RUDOLPH J; TO ATTEND FIRST INTERNATIONAL CONFERENCE ON STRUCTURAL MECHANICS IN REACTOR TECHNOLOGY, BERLIN, GERMANY - SEPTEMBER 20-24, 1971 (K030261); 6 MONTHS \$230

AZAROFF, LEONID V; TO ATTEND THE MEETING ON BAND-STRUCTURE SPECTROSCOPY OF METALS AND ALLOYS, GLASGOW, SCOTLAND, SEPTEMBER 27-30, 1971 (K030466); 6 MONTHS \$450

GINGOLD, KURT; TO ATTEND THE MEETING OF THE COUNCIL OF THE INTERNATIONAL FEDERATION OF TRANSLATORS AND THE INTERNATIONAL COLLOQUIUM OF TRANSLATORS, NICE, FRANCE, MAY 18-25, 1974 (N042443); 6 MONTHS \$431

LEA, KENNETH R; TRAVEL TO ATTEND THE FOURTH INTERNATIONAL CONFERENCE ON ATOMIC MASSES AND FUNDAMENTAL CONSTANTS BEING HELD IN TEDDINGTON, ENGLAND, SEPTEMBER 6-10, 1971 (P030164); 6 MONTHS \$382

HARTE, JOHN; TRAVEL TO CARRY ON RESEARCH AT EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH (CERN), GENEVA, SWITZERLAND, MAY 21 TO JULY 30, 1974 (P031792); 6 MONTHS \$534

SINANOGLU, OKTAY; TRAVEL TO ATTEND INTERNATIONAL CONFERENCE ON MOLECULAR SPECTROSCOPY, WARSAW, POLAND, SEPTEMBER 15-18, 1974 (P031882); 6 MONTHS \$582

DALTON, RICHARD J; TRAVEL TO CONDUCT RESEARCH IN ROME, ITALY, JULY 1-AUGUST 30, 1974 (S031870); 6 MONTHS \$665

BRASS, GARRETT W; TRAVEL TO ATTEND INTERNATIONAL SYMPOSIUM ON THE OCEANOGRAPHY OF THE SOUTH PACIFIC, WELLINGTON, NEW ZEALAND, FEBRUARY 9-15, 1972 (V032476); 6 MONTHS \$1,334

RAFSKY, LAWRENCE C; ADV ST INST ON DISCRIMINANT ANALYSIS APPLICAT ATHENS GREECE 618-20172 (Z002556); 6 MONTHS \$581

ROBERSON, CHARLES W; TO ATTEND NATO ADVANCED STUDY INSTITUTE ON PLASMA PHYSICS AT LES HOUCHEs, FRANCE, JULY 2-29, 1974 (Z008600); 6 MONTHS \$393

DELAWARE

GREENFIELD, IRWIN G; TRAVEL TO ATTEND INTERNATIONAL SYMPOSIUM ON DEFECT INTERACTIONS IN SOLIDS AND INDUSTRIAL METALLURGY, BANGALORE, INDIA, MAY 9-13, 1974 (H033081); 6 MONTHS \$1,302

LEVY, LEON S; TRAVEL TO ATTEND CONFERENCE ON THEORY OF AUTOMATA, LANGUAGES, AND PROGRAMMING, ROCQUENCOURT, FRANCE, JULY 3-7, 1974 (J042913); 6 MONTHS \$417

MOSZYNSKI, JERZY R; TO ATTEND FIRST INDIAN NATIONAL CONFERENCE ON HEAT AND MASS TRANSFER, MADRAS, INDIA, DECEMBER 6-8, 1971 (K031828); 6 MONTHS \$323

STARK, ROBERT M; TRAVEL TO ATTEND SIXTH INTERNATIONAL CONFERENCE ON OPERATIONS RESEARCH, DUBLIN, IRELAND, AUGUST 21-25, 1974 (K033142); 6 MONTHS \$310

SANDLER, STANLEY I; TO ATTEND NATO ADVANCED STUDY INSTITUTE ON MOLECULAR DYNAMICS IN SIMPLE LIQUIDS AT MENTON, FRANCE, JULY 2-12, 1974 (Z008581); 6 MONTHS \$592

DISTRICT OF COLUMBIA

LUKACS, EUGENE; TO ATTEND THE NINTH INTERNATIONAL SYMPOSIUM ON FUNCTIONAL EQUATIONS, ROME AND PROCCHIO, ELBA, ITALY, SEPTEMBER 5-11, 1971 (P030174); 6 MONTHS \$444

TUNSTALL, DANIEL B; TRAVEL TO ATTEND SECOND MEETING OF THE ORGANIZATION FOR ECONOMIC COOPERATION AND DEVELOPMENT SOCIAL INDICATOR WORKING PARTY, PARIS, FRANCE, FEBRUARY 21-23, 1972 (S032538); 6 MONTHS \$650

KELLY, WILLIAM C; INTERNATL CONF ON UTILIZI HIGHLY-QUALIFIED PERS VENICE IT 10123-2711 (Z002817); \$310

AMERICAN ANTHROPOLOGICAL ASSOCIATION

LEHMAN, EDWARD J; TRAVEL OF AMERICANS TO ATTEND XL INTERNATIONAL CONGRESS OF AMERICANISTS, ROME, SEPTEMBER 3-8, 1974 (S032957); 12 MONTHS \$5,000

AMERICAN PSYCHOLOGICAL ASSOCIATION

LITTLE, KENNETH B; TRAVEL TO ATTEND TWENTIETH INTERNATIONAL CONGRESS OF PSYCHOLOGY, JAPAN, AUGUST 1972 (B032587); 12 MONTHS \$23,260

LINGUISTIC SOCIETY OF AMERICA

SEBEEK, THOMAS A; TRAVEL OF U.S. SCIENTISTS TO ATTEND THE ELEVENTH INTERNATIONAL CONGRESS OF LINGUISTS, BOLOGNA, ITALY, AUGUST 28 - SEPTEMBER 2, 1974 (S031517); 12 MONTHS \$9,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

ROWAN, EDMUND C; TRAVEL TO ATTEND THE TWELFTH PACIFIC SCIENCE CONGRESS (C310213 001); \$5,000

MITCHELL, LAWRENCE C; SYMPOSIUM ON FOUNDATIONS OF THE ELECTRON THEORY OF SOLIDS, LENINGRAD AND MOSCOW, USSR, NOVEMBER 29 - DECEMBER 11, 1971 (C310223); 6 MONTHS \$4,600

MITCHELL, LAWRENCE C; SUPPORT OF TRAVEL OF U.S. PARTICIPANTS TO THE SYMPOSIUM ON FOUNDATIONS OF THE ELECTRON THEORY OF SOLIDS, LENINGRAD AND MOSCOW, USSR, NOVEMBER 29-DECEMBER 11, 1971 (C310225 001); 6 MONTHS \$267

WAGONER, ANN; SUPPORT OF INTERNATIONAL UNION OF RADIO SCIENCE (C310224); 12 MONTHS \$20,000

SHEPPARD, HARVEY E; TRAVEL TO ATTEND FOURTH INTERNATIONAL BIOPHYSICS CONGRESS, USSR, AUGUST 1974 (C310241); 6 MONTHS \$6,000

SHEPPARD, HARVEY E; TRAVEL TO ATTEND SIXTH INTERNATIONAL CONGRESS ON PHOTOBIOLOGY, GERMANY, AUGUST 1974 (C310242); 7 MONTHS \$12,000

DYER, E R JR; SUPPORT OF U.S. PARTICIPATION IN THE XVTH GENERAL ASSEMBLY OF THE INTERNATIONAL ASTRONOMICAL UNION-AUGUST 1974, EXTRAORDINARY GENERAL ASSEMBLY-SEPTEMBER 1974 (C310248); 24 MONTHS \$16,000

WOOD, GEORGE W; PARTIAL SUPPORT OF U.S. PARTICIPATION IN THE THIRTEENTH GENERAL ASSEMBLY AND CONGRESS OF THE INTERNATIONAL UNION FOR THEORETICAL AND APPLIED MECHANICS (C310251); 9 MONTHS \$11,000

FLORIDA

TAYLOR, DENNIS L; TO ATTEND SEVENTH INTERNATIONAL SEAWEED SYMPOSIUM, SAPPORO, JAPAN, AUGUST 7-13, 1971 (A030142); 6 MONTHS \$1,070

VERINK, ELLIS D JR; TRAVEL TO ATTEND FIFTH INTERNATIONAL CONGRESS ON METALLIC CORROSION, TOKYO, JAPAN, MAY 21-27, 1974 (H033071); 6 MONTHS \$914

WISEMAN, H A B; TO ATTEND (A) INTERNATIONAL CONFERENCE ON MECHANICAL BEHAVIOR OF MATERIALS, KYOTO, JAPAN, (B) NINTH INTERNATIONAL CONFERENCE ON MEDICAL AND BIOLOGICAL ENGINEERING, MELBOURNE, AUSTRALIA, (A) AUGUST 15-20- (B) AUGUST 22-27, 1971 (K030172); 6 MONTHS \$450

TESAR, DELBERT; TRAVEL TO VARIOUS RESEARCH CENTERS IN EASTERN EUROPE, MARCH - APRIL 1974 (K032799); 6 MONTHS \$520

WELTNER, WILLIAM JR; TO ATTEND: TENTH INTERNATIONAL SYMPOSIUM ON FREE RADICALS, LYON, FRANCE, AUGUST 21 - SEPTEMBER 3, 1971 (PO30143); 6 MONTHS \$381

BUTLER, GEORGE B; TRAVEL TO SYMPOSIUM ON MACROMOLECULAR CHEMISTRY, HELSINKI, FINLAND, JULY 2-8, 1972 (PO31623); 6 MONTHS \$350

SALTIEL, JACK; TRAVEL TO FOURTH INTERNATIONAL SYMPOSIUM ON ORGANIC PHOTOCHEMISTRY, BADEN-BADEN, GERMANY, JULY 16-22, 1972 (PO31701); 6 MONTHS \$411

DIETZ, ROBERT S; TRAVEL TO ATTEND: INTERNATIONAL SYMPOSIUM ON OCEANOGRAPHY OF THE SOUTH PACIFIC, WELLINGTON, NEW ZEALAND, FEBRUARY 8-13, 1972 (VO32172); 6 MONTHS \$1,220

WINCHESTER, JOHN W; TRAVEL TO ATTEND: THE SEVENTH SESSION OF THE INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION, PARIS, FRANCE, OCTOBER 24 - NOVEMBER 3, 1971 (XO31432); 6 MONTHS \$975

SCHMIDT, ROBERT A; TO ATTEND: NATO ADVANCED STUDY INSTITUTE ON EPIDEMIOLOGY OF PLANT DISEASES, WAGENINGEN, THE NETHERLANDS, AUGUST 24 - SEPTEMBER 2, 1971 (ZOO2232); 6 MONTHS \$521

SCHROECK, FRANKLIN E JR; TO ATTEND: NATO ADVANCED STUDY INSTITUTE ON MATHEMATICS OF CONTEMPORARY PHYSICS, LONDON, ENGLAND, AUGUST 23 - SEPTEMBER 11, 1971 (ZOO2247); 6 MONTHS \$508

LOPER, DAVID E; ADV ST INST ON MAG PHENOMENA IN ROTATING FLUIDS CAMB ENG 8122-71/72 (ZOO2332); 6 MONTHS \$558

CUNNINGHAM, JAMES R; TO ATTEND: NATO ADVANCED STUDY INSTITUTE ON DECOMPOSITION AS A TOOL FOR SOLVING LARGE SCALE PROBLEMS AT CAMBRIDGE, ENGLAND, JULY 12-26, 1972 (ZOO2574); 6 MONTHS \$349

GEORGIA

KOCH, GEORGE S JR; TRAVEL TO ATTEND: THE TENTH INTERNATIONAL SYMPOSIUM ON THE APPLICATION OF COMPUTER METHODS IN THE MINERAL INDUSTRY, JOHANNESBURG, SOUTH AFRICA, APRIL 9-14, 1972 (AO32770); 6 MONTHS \$726

GARRISON, ALLEN K; TO ATTEND: THE MEETING ON COLOUR CENTRES IN IONIC CRYSTALS, READING, ENGLAND, SEPTEMBER 6-10, 1971 (PO30982); 6 MONTHS \$565

HERCULES, DAVID M; TRAVEL TO ATTEND: THE INTERNATIONAL CONGRESS OF ANALYTICAL CHEMISTRY, KYOTO, JAPAN, APRIL 3-7, 1972 (PO32332); 6 MONTHS \$1,012

ASHBY, E C; TRAVEL TO FIRST IUPAC CONFERENCE ON PHYSICAL ORGANIC CHEMISTRY, CRANS SUR SIERRA, SWITZERLAND, SEPTEMBER 4-8, 1972 (PO32422); 6 MONTHS \$493

BRAGGIO, JOHN T; ADV ST INST ON PRIMATE GENETIC BIOLOGY TURIN ITALY 817-10/72 (ZOO2370); 6 MONTHS \$421

HAWAII

SADLER, JAMES C; TO ATTEND: SEVENTH TECHNICAL CONFERENCE ON HURRICANES AND TROPICAL METEOROLOGY, BARBADOS, WEST INDIES, DECEMBER 6-9, 1971 (AO31841); 6 MONTHS \$673

BRETSCHNEIDER, CHARLES L; TRAVEL TO ATTEND: SYMPOSIUM ON THE PHYSICAL PROCESSES RESPONSIBLE FOR THE DISPERSAL OF POLLUTANTS IN THE SEA, AARHUS UNIVERSITY, DENMARK, JULY 2-8, 1972 (AO34398); 6 MONTHS \$700

CHIU, ARTHUR N L; TO ATTEND: THE THIRD INTERNATIONAL CONFERENCE ON WIND EFFECTS ON BUILDINGS AND STRUCTURES, TOKYO, JAPAN, SEPTEMBER 4-11, 1971 (KO30458); 6 MONTHS \$500

SCHWIND, PAUL J; TO ATTEND: NATO ADVANCED STUDY INSTITUTE ON RECENT DEVELOPMENTS IN REGIONAL SCIENCE AT KARLSRUHE, GERMANY, JULY 24 - AUGUST 11, 1972 (ZOO2584); 6 MONTHS \$685

ILLINOIS

MEYER, PETER; PARTIAL TRAVEL SUPPORT TO ATTEND: THE TWELFTH INTERNATIONAL CONFERENCE ON COSMIC RAYS, HOBART, TASMANIA, AUSTRALIA, AUGUST 1-27, 1971 (AO33037); 6 MONTHS \$1,093

LIU, CHAO-HAN; TRAVEL TO ATTEND: MEETING ON EFFECTS OF ACOUSTIC-GRAVITY WAVES ON ELECTROMAGNETIC WAVE PROPAGATION, WIESSBADEN, GERMANY, APRIL 17-21, 1972 (AO31602); 6 MONTHS \$667

RINEHART, KENNETH L JR; TRAVEL TO ATTEND: THE EIGHTH INTERNATIONAL SYMPOSIUM ON THE CHEMISTRY OF NATURAL PRODUCTS, INDIA, FEBRUARY 1972 (BO32194); 6 MONTHS \$1,223

SCHROEER, JUERGEN M; TRAVEL TO ATTEND: SECOND SYMPOSIUM ON SURFACE PHYSICS, ENSCHEDE, NETHERLANDS, JUNE 22-23, 1972, AND INTERNATIONAL CONFERENCE ON VACUUM INSTRUMENTS AND METHODS IN SURFACE STUDIES, GUILFORD, ENGLAND, JULY 10-15, 1972 (HO32012); 6 MONTHS \$452

BAZANT, ZDENEK P; TO ATTEND: FIRST INTERNATIONAL CONFERENCE ON STRUCTURAL MECHANICS IN REACTOR TECHNOLOGY BERLIN, GERMANY - SEPTEMBER 20-24, 1971 (KO30260); 6 MONTHS \$400

AGARWAL, GYAN C; TO ATTEND: NINTH INTERNATIONAL CONFERENCE ON MEDICAL AND BIOLOGICAL ENGINEERING-MELBOURNE, AUSTRALIA - AUGUST 23-27, 1971 (KO30288); 6 MONTHS \$700

DESCHAMPS, GEORGES A; TO ATTEND: THE INTERNATIONAL SYMPOSIUM ON ELECTROMAGNETIC WAVE THEORY, TBILISI, U.S.S.R., SEPTEMBER 9-12, 1971 (KO30290); 6 MONTHS \$400

BANKOFF, S GEORGE; TO ATTEND: THE INTERNATIONAL SYMPOSIUM ON TWO-PHASE SYSTEMS, HAIFA, ISRAEL, AUGUST 29 - SEPTEMBER 1, 1971 (KO30440); 6 MONTHS \$111

PARMELEE, RICHARD A; TO ATTEND: THE THIRD INTERNATIONAL CONFERENCE ON WIND EFFECTS ON BUILDINGS AND STRUCTURES, TOKYO, JAPAN, SEPTEMBER 6-11, 1971 (KO30432); 6 MONTHS \$500

ANO, ALFREDO H B; TO ATTEND: THE THIRD INTERNATIONAL CONFERENCE ON WIND EFFECTS ON BUILDINGS AND STRUCTURES, TOKYO, JAPAN, SEPTEMBER 6-11, 1971 (KO30441); 6 MONTHS \$500

WOODHEAD, RONALD W; TRAVEL SUPPORT TO ATTEND: THE THIRD INTERNATIONAL CONGRESS ON PROJECT PLANNING BY NETWORK TECHNIQUES, STOCKHOLM, SWEDEN, MAY 12-19, 1972 (KO31888); 6 MONTHS \$760

WESTWATER, JAMES W; TRAVEL TO ATTEND: THE FIFTEENTH SIBERIAN THERMOPHYSICAL SEMINAR ON CRITICAL PHENOMENA IN TWO-PHASE SYSTEMS, NOVOSIBIRSK, U.S.S.R., MAY 22-26, 1972 (KO32230); 6 MONTHS \$890

TAVLARIDES, LAWRENCE L; TRAVEL TO ATTEND: THE SECOND INTERNATIONAL SYMPOSIUM ON CHEMICAL REACTION ENGINEERING, AMSTERDAM, HOLLAND, MAY 2-4, 1972 (KO31931); 6 MONTHS \$590

MURA, TOSHIO; TRAVEL TO ATTEND: EUROPHYSICS CONFERENCE ON DISCLINATIONS, AUSOIS (SAVOIE), FRANCE, JUNE 21-23, 1972 (KO32112); 6 MONTHS \$400

SUTTON, DAVID C; TO ATTEND: THE EIGHTH INTERNATIONAL CONFERENCE ON HIGH ENERGY ACCELERATORS, GENEVA, SWITZERLAND, SEPTEMBER 20-24, 1971 (PO30801); 6 MONTHS \$664

KUNZ, A BARRY; TO ATTEND: THE MEETING ON COLOUR CENTRES IN IONIC CRYSTALS, READING, ENGLAND, SEPTEMBER 6-10, 1971 (PO30990); 6 MONTHS \$623

WILSMAN, ROBERT A; TO ATTEND: MEETING ON MATHEMATICAL STATISTICS, OBERWOLFACH, WEST GERMANY, FEBRUARY 21-MARCH 4, 1972 (PO32525); 6 MONTHS \$666

SMITH, DONALD E; TRAVEL TO ATTEND: THE SIXTH HEYROVSKY DISCUSSION, CASTLE LIBLICE, NEAR PRAGUE, CZECHOSLOVAKIA, MAY 22-24, 1972 (PO32725); 6 MONTHS \$622

IBERS, JAMES A; TRAVEL TO ATTEND: SYMPOSIUM ON CHEMISTRY OF HYDROFORMYLATION AND RELATED REACTIONS, VESEPREM, HUNGARY, MAY 30-JUNE 1, 1972 (PO32102); 6 MONTHS \$640

GOMER, ROBERT; TRAVEL SUPPORT TO ATTEND: ROYAL SOCIETY DISCUSSION ON PHYSICS AND CHEMISTRY OF SURFACES, LONDON, ENGLAND, MAY 24-25, 1972 (PO32970); 6 MONTHS \$424

FRIEDMAN, AVNER; TO ATTEND: SYMPOSIUM ON PARTIAL DIFFERENTIAL EQUATIONS AND GEOMETRY OF NORMED SPACES, HEBREW UNIVERSITY, JERUSALEM, ISRAEL, JUNE 12-18, 1972 (PO34389); 6 MONTHS \$550

YANG, N C; TRAVEL TO FOURTH INTERNATIONAL SYMPOSIUM ON ORGANIC PHOTOCHEMISTRY, BADEN-BADEN, GERMANY, JULY 12-22, 1972 (PO31702); 6 MONTHS \$730

DICKEL, HELENE R; TRAVEL TO ATTEND: EIGHTEENTH INTERNATIONAL ASTROPHYSICAL SYMPOSIUM, LIEGE, BELGIUM, JUNE 22-27, 1972 (PO34788); 6 MONTHS \$762

HALPERN, JACK; TRAVEL TO FIRST IUPAC CONFERENCE ON PHYSICAL ORGANIC CHEMISTRY, CRANS SUR SIERRA, SWITZERLAND SEPTEMBER 2-8, 1972 (PO32325); 6 MONTHS \$667

BUTZER, KARL W; TO ATTEND: THE SEVENTH PANAFRICAN CONGRESS ON PREHISTORY AND QUATERNARY STUDIES, ADDIS ABABA, ETHIOPIA, DECEMBER 4-12, 1971 (SO31399); 6 MONTHS \$598

SCHMIDT, STEPHEN C; TO ATTEND: ANNUAL MEETING OF THE BRITISH AGRICULTURAL ECONOMICS SOCIETY, OXFORD, ENGLAND, JULY 7-10, 1972 (SO32212); 6 MONTHS \$520

SHEN-MILLER, JANE; TO ATTEND: NATO ADVANCED STUDY INSTITUTE ON MODERN ASPECTS OF HORMONAL REGULATION IN PLANT GROWTH AND DEVELOPMENT, IZMIR, TURKEY, SEPTEMBER 20 - OCTOBER 1, 1971 (ZOO2245); 6 MONTHS \$649

ANTOS, GEORGE; NATO ADVANCED STUDY INSTITUTE ON FUNDAMENTAL PRINCIPLES IN HETEROGENEOUS CATALYSIS, VENICE, ITALY, SEPTEMBER 19 - OCTOBER 2, 1971 (ZOO2282); 6 MONTHS \$317

GRIMES, CAROL J; ASI ON MAG RESONANCE IN INORGANIC CHEM TERRHENIA ITALY 8127-12/72 (ZOO2330); 6 MONTHS \$520

BURKSTRAND, JAMES M; TO ATTEND: ADVANCED STUDY INSTITUTE ON ELECTRON EMISSION SPECTROSCOPY AT GENT, BELGIUM, AUGUST 22-SEPTEMBER 9, 1972 (ZOO2522); 6 MONTHS \$535

BRAUN, BARBARA Z; TO ATTEND: NATO ADVANCED STUDY INSTITUTE ON PRIMARY MOLECULAR EVENTS IN PHOTOBIOLOGY AT S. FIMINGNANO, ITALY, SEPTEMBER 4-16, 1972 (ZOO2590); 6 MONTHS \$668

NORTHWESTERN UNIVERSITY

FREEMAN, ARTHUR J; SUPPORT OF TRAVEL OF U. S. PARTICIPANTS TO ATTEND: THE INTERNATIONAL CONFERENCE ON PERSPECTIVES FOR HYPERFINE INTERACTIONS IN MAGNETICALLY ORDERED SYSTEMS BY NMR AND OTHER METHODS (HO31732); 12 MONTHS \$3,000

INDIANA

ROTH, CHARLES B; TRAVEL TO ATTEND- 1978 INTERNATIONAL CLAY CONFERENCE, MADRID, SPAIN, JUNE 25-30, 1978 (A031176); 6 MONTHS \$692

MORTENSON, LEONARD E; TRAVEL TO ATTEND- GOLDEN JUBILEE OF THE INDIAN INSTITUTE OF SCIENCE, BANGALORE, INDIA, DECEMBER 2-9, 1971 (B031577); 6 MONTHS \$1,291

SAN PIETRO, ANTHONY; TRAVEL TO ATTEND- GOLDEN JUBILEE OF THE INDIAN INSTITUTE OF SCIENCE, BANGALORE, INDIA, DECEMBER (B031589); 6 MONTHS \$1,092

MASSEY, JAMES LEE; TO ATTEND- THE SECOND INTERNATIONAL SYMPOSIUM ON INFORMATION THEORY, TSAHKADSOR, ARMENIA, U.S.S.R., SEPTEMBER 2-8, 1971 (K030458); 6 MONTHS \$355

LEON, BENJAMIN J; TO ATTEND- THE 1971 IEEE INTERNATIONAL SYMPOSIUM ON ELECTRICAL NETWORK THEORY, LONDON, ENGLAND, SEPTEMBER 6-10, 1971 (K030449); 6 MONTHS \$200

COHEN, RAYMOND; TO ATTEND- THE SYMPOSIUM ON THE ACOUSTICS OF FLOW DUCTS, UNIVERSITY OF SOUTHAMPTON, ENGLAND, JANUARY 10-14, 1978 (K031813); 6 MONTHS \$590

FLOSS, HEINZ G; TRAVEL TO ATTEND- THE FOURTH INTERNATIONAL FERMENTATION SYMPOSIUM, KYOTO, JAPAN, MARCH 19-25, 1978 (K031827); 6 MONTHS \$630

TOEBES, O H; TRAVEL TO ATTEND- INTERNATIONAL SYMPOSIUM ON FLOW-INDUCED STRUCTURAL VIBRATIONS, KARLSRUHE, GERMANY, AUGUST 14-18, 1978 (K031892); 6 MONTHS \$325

BROWNE, CORNELIUS P; TRAVEL TO ATTEND- THE FOURTH INTERNATIONAL CONFERENCE ON ATOMIC MASSES AND FUNDAMENTAL CONSTANTS BEING HELD IN TEDDINGTON, ENGLAND SEPTEMBER 6-10, 1971 (P030506); 6 MONTHS \$358

NIETJE, GARY M; TO ATTEND- THIRD INTERNATIONAL CONGRESS OF ATOMIC ABSORPTION AND FLUORESCENCE SPECTROSCOPY, PARIS, FRANCE, SEPTEMBER 27 - OCTOBER 1, 1971 (P030574); 6 MONTHS \$508

STOLL, WILHELM; CONFERENCE ON COMPLEX ANALYSIS IN SEVERAL VARIABLES, OBERWOLFACH, WEST GERMANY, SEPTEMBER 5-11, 1971 (P030928); 6 MONTHS \$539

HALMOS, PAUL R; TO ATTEND- 1978 ST. ANDREWS COLLOQUIUM, ST. ANDREWS, SCOTLAND, JULY 12-20, 1978 (P033192); 6 MONTHS \$644

PEHLNER, THOMAS P; TRAVEL TO SPEND A SABBATICAL LEAVE AT OXFORD UNIVERSITY, OXFORD, ENGLAND, SEPTEMBER 1978 - JANUARY 1979 (P034190); 12 MONTHS \$532

RAMDAS, A K; TRAVEL TO ATTEND- THIRD INTERNATIONAL CONFERENCE ON RAMAN SPECTROSCOPY, REIMS, FRANCE, SEPTEMBER 2-12, 1978 (P034161); 6 MONTHS \$652

BENFEY, OTTO T; INTERNATIONAL SYMPOSIUM ON CHEMICAL EDUC SAO PAULO BRAZIL AUGUST 30-SEPTEMBER 4, 1971 (Z004253); 6 MONTHS \$732

IOWA

LONNGREN, KARL E; TO ATTEND- THE TENTH INTERNATIONAL CONFERENCE ON PHENOMENA IN IONIZED GASES, OXFORD, ENGLAND, SEPTEMBER 12-18, 1971 AND THE THIRD INTERNATIONAL CONFERENCE ON QUIESCENT PLASMAS, ELSINORE, DENMARK, SEPTEMBER 20-24, 1971 (K030477); 6 MONTHS \$580

WALTMAN, PAUL; TO ATTEND- CONFERENCE ON THE THEORY OF ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS, UNIVERSITY OF DUNDEE, SCOTLAND, MARCH 22-31, 1978 (P033109); 6 MONTHS \$560

HANSEN, ROBERT S; TRAVEL TO INTERNATIONAL CONFERENCE 'CHEMISTRY AT INTERFACES', JUNE 27-JULY 8, 1979, ROVINJ, YUGOSLAVIA (P034115); 6 MONTHS \$661

STILLE, JOHN K; TRAVEL TO INTERNATIONAL SYMPOSIUM ON MACROMOLECULES, HELSINKI, FINLAND, JULY 2-8, 1978 (P034188); 6 MONTHS \$750

TOCK, RICHARD W; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON CHARGED AND CATALYTIC POLYMERS, AT FORGES-LES-EAUX, FRANCE ON JUNE 12-22, 1978 (Z004578); 6 MONTHS \$590

JOYCE, GLENN R; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON PLASMA PHYSICS AT LES HOUCHES, FRANCE, JULY 2-29, 1978 (Z004589); 6 MONTHS \$464

KANSAS

HOFFMANN, ROBERT S; TRAVEL TO ATTEND- INTERNATIONAL SYMPOSIUM ON SPECIES AND ZOOGEOGRAPHY OF EUROPEAN MAMMALS, CZECHOSLOVAKIA, NOVEMBER 1971 (B031579); 6 MONTHS \$543

DAVIS, JOHN C; TO ATTEND- THIRD INTERNATIONAL CONGRESS FOR STEREOLOGY - BERNE, SWITZERLAND, AUGUST 28-31, 1971 (K030049); 4 MONTHS \$370

DAVIS, JOHN C; TRAVEL TO ATTEND- CONFERENCE ON MACHINE PERCEPTION OF PATTERNS AND PICTURES, TEDDINGTON, ENGLAND APRIL 12-14, 1978 (K031851); 6 MONTHS \$470

BIGGS, ALBERT W; TRAVEL SUPPORT TO ATTEND- 'SCAR SYMPOSIUM ON ANTARCTIC TELECOMMUNICATIONS', SANDEFJORD, NORWAY, MAY 10-14, 1978 (V031782); 6 MONTHS \$728

MORROW, JOHN; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON MOLECULAR AND DEVELOPMENTAL BIOLOGY, ERICE, SICILY, JULY 27 - AUGUST 3, 1971 (Z004953); 6 MONTHS \$680

KENTUCKY

REUCROFT, PHILIP J; TRAVEL TO ATTEND- THIRD INTERNATIONAL SYMPOSIUM ON THE CHEMISTRY OF THE ORGANIC SOLID STATE, GLASGOW, SCOTLAND, SEPTEMBER 12-18, 1978 (H034444); 6 MONTHS \$664

LIENHARD, JOHN H; TRAVEL TO ATTEND- THE FIFTEENTH SIBERIAN THERMOPHYSICAL SEMINAR ON CRITICAL PHENOMENA IN TWO-PHASE SYSTEMS, NOVOSIBIRSK, U.S.S.R., MAY 21-26, 1978 (K030957); 6 MONTHS \$600

WETS, ROGER J; TO ATTEND- THE FOURTH CONFERENCE ON PROBABILITY THEORY, BRASOV, ROMANIA, SEPTEMBER 12-18, 1971 (P030586); 6 MONTHS \$768

LOUISIANA

PILLER, HERBERT; TRAVEL TO ATTEND- INTERNATIONAL CONFERENCE ON THE PHYSICS OF SEMICONDUCTORS, WARSAW, POLAND, JULY 25-29, 1978 (H031799); 6 MONTHS \$621

PERRY, CHARLES L; INTERNATIONAL ASTRONOMICAL UNION SYMPOSIUM ON SPECTRAL CLASSIFICATION AND MULTICOLOR PHOTOMETRY, CORDOBA, ARGENTINA, OCTOBER 12-24, 1971 (P030919); 6 MONTHS \$749

WEST, PHILIP W; TO ATTEND- THE INTERNATIONAL CONGRESS OF ANALYTICAL CHEMISTRY, KYOTO, JAPAN, APRIL 2-7, 1978 (P030968); 6 MONTHS \$649

ZEBOUNI, NADIM H; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON FUNDAMENTAL PRINCIPLES IN HETEROGENEOUS CATALYSIS, VENICE, ITALY, SEPTEMBER 13 - OCTOBER 4, 1971 (Z004161); 6 MONTHS \$587

MARYLAND

RODENHUIS, DAVID R; TO ATTEND- SEVENTH TECHNICAL CONFERENCE ON HURRICANES AND TROPICAL METEOR, BARBADOS, WEST INDIES, DECEMBER 4-8, 1971 (A031490); 6 MONTHS \$241

CARTER, HARRY H; TRAVEL TO ATTEND- MEETING OF THE INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA (ICES), AARHUS, DENMARK, JULY 2-8, 1978 (A033078); 6 MONTHS \$672

OKUBO, AKIRA; TRAVEL TO ATTEND- SYMPOSIUM ON THE PHYSICAL PROCESSES RESPONSIBLE FOR THE DISPERSAL OF POLLUTANTS IN THE SEA, AARHUS UNIVERSITY, DENMARK, JULY 2-8, 1978 (A033055); 6 MONTHS \$577

OKUBO, AKIRA; TRAVEL TO ATTEND- SYMPOSIUM ON THE PHYSICAL PROCESSES RESPONSIBLE FOR THE DISPERSAL OF POLLUTANTS IN THE SEA, AARHUS UNIVERSITY, DENMARK, JULY 2-8, 1978 (A033259 001); \$150

DEUTSCH, EDWARD S; TRAVEL SUPPORT TO ATTEND- CONFERENCE ON MACHINE PERCEPTION OF PATTERNS AND PICTURES, TEDDINGTON, MIDDLESEX, ENGLAND, APRIL 12-14, 1978 (J033287); 6 MONTHS \$383

ZORN, GUB T; TO ATTEND- THE EIGHTH INTERNATIONAL CONFERENCE ON HIGH ENERGY ACCELERATORS, GENEVA, SWITZERLAND, SEPTEMBER 20-24, 1971 (P030808); 6 MONTHS \$699

WALKER, JAMES C; TO ATTEND- FOURTH INTERNATIONAL CONFERENCE ON MOSSBAUER SPECTROSCOPY, DRESDEN, GERMAN DEMOCRATIC REPUBLIC, SEPTEMBER 20-25, 1971 (P031129); 6 MONTHS \$585

BAILEY, WILLIAM J; TRAVEL TO INTERNATIONAL SYMPOSIUM ON MACROMOLECULES, HELSINKI, FINLAND, JULY 2-8, 1978 (P034188); 6 MONTHS \$450

GARDNER, MARJORIE; INTERNATIONAL SYMPOSIUM ON CHEMICAL EDUCATION SAO PAULO BRAZIL AUGUST 30 - SEPTEMBER 3, 1971 (Z004253); 6 MONTHS \$539

CHRZANOWSKI, PAUL; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON BLACKHOLE ASTROPHYSICS AT LES HOUCHES, FRANCE JULY 21 - AUGUST 30, 1978 (Z004589); 6 MONTHS \$247

ENTOMOLOGICAL SOCIETY OF AMERICA

MURDOCH, WALLACE P; TRAVEL TO ATTEND- FOURTEENTH INTERNATIONAL CONGRESS OF ENTOMOLOGY, AUSTRALIA, AUGUST 1978 (B031879); 12 MONTHS \$10,000

MASSACHUSETTS

BERGGREN, WILLIAM A; TO ATTEND- THE COLLOQUIUM ON THE NEOGENE-QUATERNARY BOUNDARY, KISHINEV, U.S.S.R., MAY 21 - JUNE 6, 1978 (A033231); 6 MONTHS \$1,130

KALCKAR, HERMAN M; TO ATTEND- SYMPOSIUM ON THE BIOCHEMISTRY OF GLYCOSIDIC LINKAGES, SAN CARLOS DE BARILOCHE, ARGENTINA, NOVEMBER 2, 1971 THROUGH NOVEMBER 11, 1971 (B031385); 6 MONTHS \$758

STROMINGER, JACK L; TO ATTEND- SYMPOSIUM ON THE BIOCHEMISTRY OF GLYCOSIDIC LINKAGES, SAN CARLOS DE BARILOCHE, ARGENTINA, NOVEMBER 2, 1971 THROUGH NOVEMBER 11, 1971 (B031386); 6 MONTHS \$699

- SUSSMAN, MAURICE; TO ATTEND- SYMPOSIUM ON THE BIOCHEMISTRY OF GLYCOSIDIC LINKAGES, SAN CARLOS DE BARILOCHE, ARGENTINA, NOVEMBER 4, 1971 THROUGH NOVEMBER 11, 1971 (B031527); 6 MONTHS \$813
- PENMAN, SHELDON; INTERNATIONAL MEETING ON BIOCHEMISTRY OF GENE EXPRESSION IN HIGHER ORGANISMS (B033183); 6 MONTHS \$479
- UHLIG, HERBERT H; TRAVEL TO ATTEND- FIFTH INTERNATIONAL CONGRESS ON METALLIC CORROSION, TOKYO, JAPAN, MAY 21-27, 1972 (H033080); 6 MONTHS \$351
- TEICHOLOZ, ERIC; TO ATTEND- THE U.S. COMPUTER AIDED DESIGN AND COMPUTER GRAPHICS EXHIBITION, LONDON, ENGLAND, JANUARY 21 - FEBRUARY 4, 1972 (U002910); 6 MONTHS \$445
- BOOK, RONALD V; TRAVEL TO ATTEND- SYMPOSIUM ON AUTOMATA THEORY, LANGUAGES, AND PROGRAMMING, ROQUECOURT, FRANCE, JULY 2-7, 1972 (U031672); 6 MONTHS \$400
- CORNELL, C ALLIN; TO ATTEND- INTERNATIONAL CONFERENCE ON APPLICATIONS OF STATISTICS AND PROBABILITY TO SOIL AND STRUCTURAL ENGINEERING, HONG KONG, BRITISH CROWN COLONY, ASIA - SEPTEMBER 15-17, 1971 (K030308); 6 MONTHS \$750
- KENNEDY, ROBERT S; TO ATTEND- THE SECOND INTERNATIONAL SYMPOSIUM ON INFORMATION THEORY, TSAHKADSOR, ARMENIA, U.S.S.R., SEPTEMBER 2-4, 1971 (K030432); 6 MONTHS \$450
- DIETZ, ALBERT G H; TRAVEL TO ATTEND- INTERNATIONAL SEMINAR, FUTURE OF PLASTICS IN BUILDING, COPENHAGEN, DENMARK, APRIL 12, 1972 (K032433); 6 MONTHS \$320
- NEWTON, GEORGE C JR; TRAVEL SUPPORT TO ATTEND- FIFTH WORLD CONGRESS OF THE INTERNATIONAL FEDERATION OF AUTOMATIC CONTROL, PARIS, FRANCE, JUNE 12-17, 1972 (K033740); 6 MONTHS \$410
- STEEL, COLIN; TO ATTEND- SIXTH INTERNATIONAL CONFERENCE ON PHOTOCHEMISTRY, BORDEAUX, FRANCE, SEPTEMBER 6-8, 1971 (P030160); 6 MONTHS \$489
- STANLEY, H EUGENE; TO ATTEND- THE INTERNATIONAL SEMINAR ON STATISTICAL MECHANICS AND FIELD THEORY, HAIFA, ISRAEL, JULY 25-AUGUST 6, 1971 (P030488); 6 MONTHS \$613
- STERNHEIM, MORTON M; TO ATTEND- THE FOURTH INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE, DUBNA, U.S.S.R., SEPTEMBER 7-11, 1971 (P030453); 12 MONTHS \$1,051
- VAN BLERKOM, DAVID J; TO ATTEND- THE INTERNATIONAL SYMPOSIUM ON WOLF-RAYET AND HOT STARS, LA PLATA, ARGENTINA, AUGUST 12-21, 1971 (P030471); 6 MONTHS \$740
- HAIJAN, ARSHAG; SECOND INTERNATIONAL SYMPOSIUM ON INFORMATION THEORY, TSAHKADSOR, ARMENIA, U.S.S.R., SEPTEMBER 2-3, 1971 (P030687); 6 MONTHS \$899
- HUME, DAVID N; TO ATTEND- THE INTERNATIONAL CONGRESS OF ANALYTICAL CHEMISTRY, KYOTO, JAPAN, APRIL 3-7, 1972 (P032364); 6 MONTHS \$912
- GRINDLAY, JONATHAN E; TRAVEL TO DO RESEARCH WITH PROF. BROWN, UNIVERSITY OF SYDNEY, AUSTRALIA, MARCH-AUGUST, 1972 (P032824); 6 MONTHS \$1,261
- FRIEDMAN, MARVIN H; TRAVEL TO ATTEND- FOURTH INTERNATIONAL CONFERENCE ON HIGH ENERGY COLLISIONS (STONY BROOK SERIES), OXFORD, ENGLAND, APRIL 3-7, 1972 (P032236); 6 MONTHS \$273
- STEIN, ROBERT F; INTERNATIONAL TRAVEL TO CARRY ON RESEARCH ON THE INTERSTELLAR MEDIUM AT IOTA (CAMBRIDGE, ENGLAND) (P031587); 6 MONTHS \$304
- DEWALD, ROBERT R; TRAVEL TO CONFERENCE ON NATURE OF METAL-AMMONIA SOLUTIONS- COLLOQUIUM WEYL III, UPPER GALILEE, ISRAEL, JUNE 19-19, 1972 (P031700); 6 MONTHS \$967
- WAROLE, JOHN F C; TRAVEL SUPPORT TO MAKE OBSERVATIONS WITH THE WESTERBORK SYNTHESIS RADIO TELESCOPE AT LEIDEN, HOLLAND, JULY AND AUGUST 1972 (P031727); 6 MONTHS \$636
- BARTLETT, PAUL D; TRAVEL TO FIRST IUPAC CONFERENCE ON PHYSICAL-ORGANIC CHEMISTRY, CRANS SUR SIERRA, SWITZERLAND, SEPTEMBER 4-8, 1972 (P031822); 6 MONTHS \$526
- LIEBERMAN, DAVID I; TO ATTEND- ANNUAL RESEARCH CONFERENCE IN ALGEBRA, BONN, GERMANY, JUNE 9-16, 1972 (P031848); 6 MONTHS \$600
- WAUGH, JOHN S; TRAVEL TO ATTEND- SEVENTEENTH CONGRESS AMPERE, TURKU, FINLAND, AUGUST 21-26, 1972 (P031851); 6 MONTHS \$735
- RIENSTRA, M HOWARD; TRAVEL TO CONDUCT RESEARCH IN ARCHIVES, ROME, JANUARY 5-26, 1972 (S031181); 6 MONTHS \$525
- EMERY, K O; TRAVEL TO ATTEND- SEVENTH SESSION OF THE INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION, PARIS, FRANCE, OCTOBER 25 - NOVEMBER 6, 1971 (X031524); 6 MONTHS \$752
- WEBSTER, FERRIS; TO ATTEND- THE SEVENTH SESSION OF THE INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION, PARIS, FRANCE, OCTOBER 24 - NOVEMBER 6, 1971 (X031543); 6 MONTHS \$913
- FRIEDMAN, KENNETH A; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON DUALITY IN ELEMENTARY PARTICLES, LOUVAIN, BELGIUM, AUGUST 30 - SEPTEMBER 16, 1971 (Z002274); 6 MONTHS \$372
- BLACK, JOHN HARRY; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON ATOMS AND MOLECULES IN ASTROPHYSICS, STIRLING, SCOTLAND, AUGUST 1-21, 1971 (Z002257); 6 MONTHS \$343
- GARDNER, GARY M; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON PHYTOCHROME, ATHENS, GREECE, AUGUST 30 - SEPTEMBER 17, 1971 (Z002242); 6 MONTHS \$450
- MACQUEEN, DAVID B; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON MATHEMATICAL LOGIC, CAMBRIDGE, ENGLAND, AUGUST 1-21, 1971 (Z002247); 6 MONTHS \$203
- FOSTER, JAMES N; ASI ON CONT DRIFT SEA-FLOOR SPREAD & PLATE TECTONIC IMPLICATIONS FOR E.SCI 4/10-11/72 (Z002256); 6 MONTHS \$477
- GANS, ROGER F; ADV ST INST ON MAG PHENOMENA IN ROTATING FLDS CAMB ENG 8/18-7/1/72 (Z002254); 6 MONTHS \$595
- JAFFE, JACK; ADV ST INST ON COSMOGRAVITATION COSMOLOG MODELS ERIC IT 8/10-20/72 (Z002253); 6 MONTHS \$488
- SETZER, CHARLES B; ASI MOD FUNCTII VARIABLE & ARITHMET APPLIC ANTWERP BELG 7/17-20/72 (Z002251); 6 MONTHS \$322
- ROSENBERG, MARLENE; HIGH ENERGY ASTROPHYSICS REL TO ELEM PARTICLE PHY ERIC SIC 8/18-7/1/72 (Z002247); 6 MONTHS \$417
- HOVIS, QUY L; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON FELDSPARS AT MANCHESTER, ENGLAND JULY 11-20, 1972 (Z002276); \$438
- KEYES, THOMAS F; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON MOLECULAR DYNAMICS IN SIMPLE LIQUIDS AT MENTON, FRANCE, JULY 2-13, 1972 (Z002261); 6 MONTHS \$372
- AMERICAN METEOROLOGICAL SOCIETY
SPENGLER, KENNETH C; TRAVEL SUPPORT FOR U.S.-AUSTRALIA WEATHER MODIFICATION CONFERENCE (J030388); 6 MONTHS \$16,000

MICHIGAN

- BECK, CHARLES B; TO ATTEND- THE SILVER JUBILEE OF THE BIRBAL SAHNI INSTITUTE OF PALEOBOTANY, LUCKNOW, INDIA, DECEMBER 5-11, 1971 (B031653); 6 MONTHS \$1,046
- SPARROW, FREDERICK K; TRAVEL TO ATTEND- MARINE MYCOLOGY SYMPOSIUM, BREMERHAVEN, GERMANY, SEPTEMBER 1972 (B031748); 6 MONTHS \$644
- RUSSELL, JOEL W; TO DEVELOP COOPERATIVE RESEARCH PROJECT WITH SCIENTISTS AT THE AUSTRALIAN NATIONAL UNIVERSITY, CANBERRA, AUSTRALIA (F031390); 18 MONTHS \$1,353
- SACHS, HERBERT K; TO ATTEND- SECOND INTERNATIONAL CONFERENCE ON VEHICLE MECHANICS - PARIS, FRANCE SEPTEMBER 8-10, 1971 (K030302); 6 MONTHS \$310
- PATTON, JOHN T; TRAVEL TO ATTEND- THE FOURTH INTERNATIONAL FERMENTATION SYMPOSIUM, KYOTO, JAPAN, MARCH 19-25, 1972 (K032128); 6 MONTHS \$630
- YEH, GREGORY S Y; TO ATTEND- NINTH IUPAC MICROSYMPOSIUM ON MACROMOLECULES, PRAGUE, CZECHOSLOVAKIA, SEPTEMBER 6-9, 1971 (P030217); 6 MONTHS \$660
- RICH, ARTHUR; TRAVEL TO ATTEND- THE FOURTH INTERNATIONAL CONFERENCE ON ATOMIC MASSES AND FUNDAMENTAL CONSTANTS BEING HELD IN TEDDINGTON, ENGLAND, SEPTEMBER 4-10, 1971 (P030403); 12 MONTHS \$568
- BARTELL, LAWRENCE S; TRAVEL SUPPORT TO LECTURE AT MOSCOW STATE UNIVERSITY AND TO ATTEND THE SIXTH HUNGARIAN CONFERENCE ON X-RAYS, ELECTRON, AND NEUTRON DIFFRACTION, MAY 15-JUNE 15, 1972 (P032668); 6 MONTHS \$561
- JOHNSON, CARL R; TRAVEL SUPPORT TO ATTEND- FIFTH SYMPOSIUM ON ORGANIC SULFUR CHEMISTRY, LUND, SWEDEN, JUNE 3-9, 1972 (P032701); 6 MONTHS \$662
- HART, HAROLD; TRAVEL TO FOURTH INTERNATIONAL SYMPOSIUM ON PHOTOCHEMISTRY, BADEN-BADEN, GERMANY, JULY 16-22, 1972 (P031706); 6 MONTHS \$726
- FORD, GEORGE W; TRAVEL TO ATTEND- BOLTZMANN EQUATION SYMPOSIUM, VIENNA, AUSTRIA, SEPTEMBER 4-8, 1972 (P031611); 12 MONTHS \$288
- MORGAN, JAMES N; TO ATTEND- NINTH INTERNATIONAL CONGRESS OF GERONTOLOGY, KIEV, U.S.S.R., JULY 2-7, 1972 (S032280); 12 MONTHS \$650
- JURDY, DONNA M; TO ATTEND- ADVANCED STUDY INSTITUTE ON CONTINENTAL DRIFT, SEA-FLOOR SPREADING AND PLATE TECTONICS-IMPLICATIONS FOR EARTH SCIENCE AT NEWCASTLE UPON TYNE, U.K. (Z002337); 6 MONTHS \$302
- WOODY, LAUREN G; 2ND INTERNATL CONGRESS ON MATHEMATICAL EDUC EXETER ENGLAND 8/29-9/1/72 (Z002317); 6 MONTHS \$360
- WEISS, MARK L; ADV ST INST ON PRIMATE GENETIC BIOLOGY TURIN ITALY 8/7-18/72 (Z002350); 6 MONTHS \$334
- CARROLL, RAYMOND; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON ELECTROMAGNETIC INTERACTIONS OF ELEMENTARY SYSTEMS AT CARGESE, FRANCE, JULY 2-29, 1972 (Z002357); 6 MONTHS \$356

MINNESOTA

- HILL, REUBEN; TRAVEL TO ATTEND- MEETING OF THE INTERNATIONAL SOCIOLOGICAL ASSOCIATION, MILAN, ITALY TWELFTH INTERNATIONAL FAMILY RESEARCH SEMINAR, MOSCOW, USSR, APRIL 12-15 AND APRIL 16-23, 1972 (F032803); 6 MONTHS \$903
- GERBERICH, WILLIAM W; TRAVEL TO ATTEND- CONFERENCE ON FAILURE OF FIBRE REINFORCED COMPOSITE MATERIALS, UNIVERSITY OF SURREY, GUILDFORD, ENGLAND, JULY 17-19, 1972 (H033090); 6 MONTHS \$523

LEE, E BRUCE; TO ATTEND THE FIFTH ALL-UNION CONFERENCE ON CONTROL PROBLEMS, MOSCOW, U.S.S.R., OCTOBER 4 THROUGH OCTOBER 8, 1971 (K030288); 6 MONTHS \$444

LAMBERT, ROBERT F.; TO ATTEND THE MEETING ON ACOUSTICS OF FLOW DUCTS, UNIVERSITY OF SOUTHAMPTON, ENGLAND, JANUARY 16-17, 1971 (K031601); 6 MONTHS \$350

PENDER, EMIL; TRAVEL TO ATTEND FIFTH ALL UNION CONFERENCE ON LOW TEMPERATURE PLASMA GENERATORS, NOVOSIBIRSK, U.S.S.R., JUNE 24-30, 1971 (K033331); 6 MONTHS \$460

MCGHEE, RICHARD PAUL; TO ATTEND INTERNATIONAL SYMPOSIUM ON DYNAMICAL SYSTEMS, SALVADOR, BRAZIL, JULY 28 - AUGUST 12, 1971 (P030397); 6 MONTHS \$558

WEINBERGER, HANS F.; TO ATTEND SYMPOSIUM ON CONTINUUM MECHANICS AND RELATED PROBLEMS OF ANALYSIS, TBILISI, GEORGIA, U.S.S.R., SEPTEMBER 23-29, 1971 (P030504); 6 MONTHS \$971

PARISH, LESLIE J.; TRAVEL SUPPORT TO WORK WITH PROFESSOR L. H. NOSANOW AT THE UNIVERSITY OF SUSSEX, ENGLAND, FEBRUARY-MARCH, 1972 (P032750); 12 MONTHS \$215

DAVIS, H TED; TRAVEL TO CONFERENCE ON NATURE OF METAL-AMMONIA SOLUTIONS- COLLOQUIUM WEYL III, UPPER GALILEE, ISRAEL, JUNE 19-23, 1972 (P031701); 6 MONTHS \$1,174

CRAWFORD, BRYCE JR; TRAVEL TO ATTEND INTERNATIONAL SUMMER SCHOOL ON MOLECULAR DYNAMICS IN SIMPLE LIQUIDS, MENTON, FRANCE, JULY 4-13, 1972 (P031722); 6 MONTHS \$850

HILL, REUBEN; TRAVEL TO ATTEND INTERNATIONAL SOCIOLOGICAL CONFERENCE ON MODERNIZATION, WARSAW, POLAND, JUNE 11-12, 1972 (S033311); 6 MONTHS \$945

MIKKELSON, RAYMOND C; TO ATTEND NATO ADVANCED STUDY INSTITUTE ON INTERACTION OF ENERGETIC CHARGED PARTICLES WITH SOLIDS, ISTANBUL, TURKEY, AUGUST 18-28, 1971 (Z002208); 6 MONTHS \$553

MISSISSIPPI

YOUNG, POH SHIEN; TRAVEL TO ATTEND EIGHTH INTERNATIONAL CONFERENCE ON NUCLEAR PHOTOGRAPHY AND SOLID STATE TRACK DETECTORS, BUCHAREST, RUMANIA, JULY 10-15, 1972 (P031609); 6 MONTHS \$344

MISSOURI

MUHLESTEIN, LEWIS D; TRAVEL SUPPORT TO ATTEND THE FIFTH IAEA SYMPOSIUM ON NEUTRON INELASTIC SCATTERING, GRENoble, FRANCE, MARCH 4-10, 1972 (H042813); 6 MONTHS \$700

MULLER, MARCEL W; TRAVEL TO ATTEND 1972 INTERNATIONAL CONFERENCE ON MAGNETICS, KYOTO, JAPAN, APRIL 10-13, 1972 (H033046); 6 MONTHS \$508

KREIDL, NORBERT J; TRAVEL TO ATTEND ANNUAL MEETING OF THE INTERNATIONAL COMMISSION ON GLASS, WIESBADEN, GERMANY, JULY 3-9, 1972 (H041127); 6 MONTHS \$464

LEE, SOOK; TRAVEL TO ATTEND THE SEVENTEENTH COLLOQUE AMPERE, UNIVERSITY OF TURKU, FINLAND, AUGUST 21-26, 1972 (H031754); 6 MONTHS \$973

KREIDL, NORBERT J; TO ATTEND THE NINTH INTERNATIONAL CONGRESS ON GLASS, PARIS, FRANCE, SEPTEMBER 27 - OCTOBER 2, 1971 (K030188); 6 MONTHS \$480

BULL, STANLEY R; TO ATTEND IAEA SEMINAR ON NUMERICAL REACTOR CALCULATIONS, VIENNA, AUSTRIA, JANUARY 17-21, 1972 (K031451); 6 MONTHS \$400

SUMMERS, DAVID A; TRAVEL TO ATTEND INTERNATIONAL SYMPOSIUM ON JET CUTTING TECHNOLOGY, COVENTRY, ENGLAND, APRIL 5-7, 1972 (K032356); 6 MONTHS \$320

NEBRASKA

SCHULTZ, C BERTRAND; TRAVEL TO ATTEND INTERNATIONAL COLLOQUIUM (INQUA) 'THE BOUNDARY BETWEEN THE NEOGENE AND QUATERNARY', U.S.S.R. ACADEMY OF SCIENCES, MAY 21 - JUNE 3, 1972 (A031329); 6 MONTHS \$982

NEVADA

TELFORD, JAMES W; TRAVEL TO ATTEND INTERNATIONAL CLOUD PHYSICS CONFERENCE, LONDON, ENGLAND, AUGUST 21-28, 1972 (A031324); 6 MONTHS \$927

MOUSSET-JONES, PIERRE F X; TRAVEL TO ATTEND TENTH INTERNATIONAL SYMPOSIUM ON COMPUTER APPLICATIONS IN MINERAL INDUSTRY, JOHANNESBURG, SOUTH AFRICA, APRIL 1972 (J032377); 6 MONTHS \$1,114

NEW HAMPSHIRE

FLANDERS, STEPHEN N; TO ATTEND ADVANCED STUDY INSTITUTE ON SYSTEM DYNAMICS-A METHODOLOGY FOR ANALYSIS OF COMPLEX SOCIAL SYSTEMS AT HANOVER, GERMANY ON JULY 30-AUGUST 11, 1972 (Z002340); 6 MONTHS \$512

NEW JERSEY

MILLS, EDWIN S; TRAVEL TO ATTEND INTERNATIONAL ECONOMIC ASSOCIATION MEETING ON ENVIRONMENT AND URBANIZATION, COPENHAGEN, DENMARK, JUNE 19-24, 1972 (P031497); 6 MONTHS \$681

STAR, AURA E; TRAVEL TO ATTEND INTERNATIONAL SYMPOSIUM ON CHEMISTRY, EVOLUTION AND SYSTEMATICS, STRASBOURG, FRANCE, JULY 2-8, 1972 (P031642); 6 MONTHS \$475

CHEN, CHUAN FANG; TO SPEND ONE YEAR AT THE UNIVERSITY OF CAMBRIDGE, ENGLAND, TO DO RESEARCH ON THE PROBLEM OF STABILITY OF THERMOHALINE CONVECTION IN A DENSITY-STRAATIFIED FLUID - SEPTEMBER 1, 1971 THROUGH AUGUST 31, 1972 (K030149); 12 MONTHS \$450

LAM, SAU-HAI; TO ATTEND THE INTERNATIONAL SYMPOSIUM ON DYNAMICS OF IONIZED GASES, TOKYO, JAPAN, SEPTEMBER 13-18, 1971 (K031249); 6 MONTHS \$500

SCANLAN, ROBERT H; TO ATTEND THE THIRD INTERNATIONAL CONFERENCE ON WIND EFFECTS ON BUILDINGS AND STRUCTURES, TOKYO, JAPAN, SEPTEMBER 6-11, 1971 (K03047); 6 MONTHS \$500

PETRIE, TED E; TO ATTEND THE INTERNATIONAL CONFERENCE ON TOPOLOGY, OBERWOLFACH, GERMANY, SEPTEMBER 19-21, 1971 (P030933); 12 MONTHS \$364

PETRYSHYN, W V; TO ATTEND CONFERENCE ON FUNCTIONAL ANALYSIS, OBERWOLFACH - GERMANY, OCTOBER 3-8, 1971 (P030987); 12 MONTHS \$336

SIBNER, LESLEY M; TO ATTEND SYMPOSIUM ON GLOBAL ANALYSIS, CONVENTRY, ENGLAND AND TRIESTE, ITALY, JUNE-AUGUST 1972 (P031722); 6 MONTHS \$297

GROT, RICHARD; TO ATTEND NATO ADVANCED STUDY INSTITUTE ON FINITE ELEMENT METHODS IN CONTINUUM MECHANICS LISBON, PORTUGAL, SEPTEMBER 7-17, 1971 (Z002240); 6 MONTHS \$340

GELLER, MARGARET J; TO ATTEND ADVANCED STUDY INSTITUTE ON HIGH ENERGY ASTROPHYSICS AND ITS RELATION TO ELEMENTARY PARTICLE PHYSICS AT ERICE, ITALY ON JUNE 10 - JULY 4, 1972 (Z002554); 6 MONTHS \$428

ZUCKERMAN, GREGO J; ADV ST INST ON MODULAR FUNCTIA VARIABLERITH APPL ANTW BEL 11/2-21/1/72 (Z002560); 6 MONTHS \$321

DEVORE, DAVID I; TO ATTEND NATO ADVANCED STUDY INSTITUTE ON CHARGED AND CATALYTIC POLYMERS AT FORGES-LES-EAUX, FRANCE ON JUNE 18-28, 1972 (Z002577); 6 MONTHS \$442

CASWELL, WILLIAM E; TO ATTEND NATO ADVANCED STUDY INSTITUTE ON THEORETICAL PHYSICS - STRONG INTERACTIONS AT KAISERSLAUTERN, GERMANY, JULY 17-22, 1972 (Z002583); 6 MONTHS \$491

SOPER, DAVIDSON E; TO ATTEND NATO ADVANCED STUDY INSTITUTE ON HIGH-LIGHTS IN PARTICLE PHYSICS AT ERICE, ITALY, JULY 7-22, 1972 (Z002585); 6 MONTHS \$418

NEW MEXICO

AHLUWALIA, HARJIT S; TO ATTEND THE TWELFTH INTERNATIONAL CONFERENCE ON COSMIC RAYS (A030386); 6 MONTHS \$1,052

NEW YORK

NINKOVICH, CHARLES D; TO COMPLETE EDITORIAL WORK ON THE ACTA OF THE INTERNATIONAL SCIENTIFIC CONGRESS ON THE VOLCANO OF THERA, GREECE, SEPTEMBER 1969, VISIT ATHENS, AND THE AEGEAN ISLANDS, AUGUST 16, 1971 - SEPTEMBER 10, 1971 (A030731); 6 MONTHS \$442

BE, ALLAN W H; TRAVEL TO ATTEND SCORINUNESCO WORKING GROUP 23 SYMPOSIUM-WORKSHOP ON ZOOPLANKTON PRESERVATION, UNIVERSITY OF BATH, ENGLAND, JULY 15-19, 1972 (A031280); 6 MONTHS \$532

LITTLE, FRANK J JR; TRAVEL SUPPORT TO ATTEND MEETING OF SOC. OF ENGINEERING SCIENCE, FIRST INTERNATIONAL MEETING POLLUTION- ENGINEERING AND SCIENTIFIC SOLUTIONS, TEL AVIV, ISRAEL JUNE 12-17, 1972 (A031915); 6 MONTHS \$1,006

MORSE, DAVID L; TRAVEL TO ATTEND SECOND TROPICAL CONFERENCE ON PULSED, HIGH-BETA PLASMAS, GARCHING-BEIMUNCHEN, WEST GERMANY, JULY 3-6, 1972 (A031981); 6 MONTHS \$719

KHAN, ANWAR A; TRAVEL TO THE UNIVERSITY OF LIEGE FOR RESEARCH, LIEGE, BELGIUM, OCTOBER 13, 1971 THROUGH APRIL 11, 1972 (B030353); 2 MONTHS \$517

FOOTE, ROBERT H; TRAVEL TO ATTEND SEVENTH WORLD CONGRESS ON FERTILITY AND STERILITY, TOKYO AND KYOTO, JAPAN, OCTOBER 16-25, 1971 (B030333); 6 MONTHS \$1,039

SHERMAN, FRED; TRAVEL TO ATTEND BIOCHEMISTRY OF GENE EXPRESSION IN HIGHER ORGANISMS, AUSTRALIA, MAY 1972 (B031981); 6 MONTHS \$900

AARONSON, SHELDON; TRAVEL TO ATTEND SYMPOSIUM OF MODERN METHODS IN THE STUDY OF MICROBIAL ECOLOGY, UPPSALA, SWEDEN, JUNE 19-23, 1972 (B031498); 6 MONTHS \$400

BARR, CHARLES E; TRAVEL TO ATTEND WORKSHOP ON ION TRANSPORT IN PLANTS, ENGLAND, JULY 1972 (B031224); 6 MONTHS \$411

SPANSWICK, ROGER M; TRAVEL TO ATTEND WORKSHOP ON ION TRANSPORT IN PLANTS, ENGLAND, JULY 1972 (B03117); 6 MONTHS \$610

MARSHAK, ROBERT E; TRAVEL SUPPORT TO ATTEND MEETINGS OF THE CONTINUING COMMITTEE OF THE INTERNATIONAL FOUNDATION FOR SCIENCE, AND THE CONSTITUENT ASSEMBLY, PARIS, FRANCE, OCTOBER 18-21, 1971 (P030989); 6 MONTHS \$499

PALMER, ALLISON R; TRAVEL TO EXAMINE THE CAMBRIAN STRATIGRAPHY OF THE MEDITERRANEAN LITTORAL, MAY 1-28, 1972 (P031497); 6 MONTHS \$435

- RICHARDSON, ROBERT C; TRAVEL SUPPORT TO ATTEND THE EUROPHYSICS STUDY CONFERENCE ON THERMOMETRY AND THERMAL CONTACT, ALBI, FRANCE, APRIL 11-14, 1978 (K038838); 6 MONTHS \$637
- BHINOZUKA, MASANOBU; TRAVEL TO VISIT AND MAKE SURVEY OF JAPANESE RESEARCH INSTITUTES CONCERNING EARTHQUAKES AND EXPLORE POSSIBILITY OF FUTURE U.S.-JAPAN JOINT RESEARCH, JULY 1978 (K038839); 6 MONTHS \$1,000
- HERMAN, GABOR T; TRAVEL SUPPORT TO ATTEND THE SEVENTH INTERNATIONAL MACHINE INTELLIGENCE WORKSHOP, EDINBURGH, SCOTLAND, JUNE 8-10, 1978 (K038913); 6 MONTHS \$623
- STILLMAN, ALAN H; TRAVEL TO ATTEND TECHNICAL COMMITTEE ON COMPUTERS AND INFORMATION PROCESSING AND SUBCOMMITTEE ON DATA COMMUNICATIONS, BERLIN, GERMANY, JUNE 18-19, 1978, TURIN, ITALY, JUNE 20-22, 1978 (K038909); 6 MONTHS \$765
- GROSCH, CHESTER E; VISIT READING UNIVERSITY, ENGLAND BY INVITATION OF PROFESSOR HOCKNEY, CHAIRMAN OF THE DEPARTMENT OF COMPUTER SCIENCE, JULY-SEPTEMBER 1978 (K038953); 6 MONTHS \$520
- KU, WALTER H; TO ATTEND 1971 EUROPEAN MICROWAVE CONFERENCE-STOCKHOLM, SWEDEN - AUGUST 23-28, 1971 (K039087); 6 MONTHS \$500
- HESSEL, ALEXANDER; TO ATTEND 1971 EUROPEAN MICROWAVE CONFERENCE-STOCKHOLM, SWEDEN-AUGUST 23-28, 1971 (K039088); 6 MONTHS \$400
- FELSEN, LEOPOLD B; TO ATTEND THE INTERNATIONAL SYMPOSIUM ON ELECTROMAGNETIC WAVE THEORY, TBILISI, U.S.S.R., SEPTEMBER 9-13, 1971 (K039331); 6 MONTHS \$600
- CHENG, DAVID K; TO ATTEND THE INTERNATIONAL SYMPOSIUM ON ANTENNAS AND PROPAGATION, SENDAI, JAPAN SEPTEMBER 1-5, 1971 (K039383); 6 MONTHS \$500
- MARSHALL, THOMAS C; TO ATTEND THE THIRD INTERNATIONAL CONFERENCE ON QUIESCENT PLASMA, ELSINORE, DENMARK, SEPTEMBER 20-24, 1971 (K039429); 6 MONTHS \$350
- GHAUSI, MOHAMMED S; TO ATTEND THE 1971 IEEE INTERNATIONAL SYMPOSIUM ON ELECTRICAL NETWORK THEORY, LONDON, ENGLAND, SEPTEMBER 8-10, 1971 (K039443); 6 MONTHS \$200
- SEZENTRIMAL, GEORGE; TO ATTEND THE 1971 IEEE INTERNATIONAL SYMPOSIUM ON ELECTRICAL NETWORK THEORY, LONDON, ENGLAND, SEPTEMBER 8-10, 1971 (K039447); 6 MONTHS \$200
- SHINOZUKA, MASANOBU; TO ATTEND THE THIRD INTERNATIONAL CONFERENCE ON WIND EFFECTS ON BUILDINGS AND STRUCTURES, TOKYO, JAPAN, SEPTEMBER 6-11, 1971 (K039490); 6 MONTHS \$500
- SU, GOUQ-JEN; TO ATTEND THE NINTH INTERNATIONAL CONGRESS ON GLASS, PARIS, FRANCE, SEPTEMBER 27 - OCTOBER 8, 1971 (K039487); 6 MONTHS \$330
- CASSEDY, EDWARD S JR; TO VISIT ATOMIC ENERGY LABORATORIES (WORKING ON LASER-PRODUCED PLASMAS), LONDON, ENGLAND AND ROME, ITALY, NOVEMBER 1971 (K039797); 6 MONTHS \$430
- GROSS, ERIC T B; TRAVEL TO ATTEND THE INTERNATIONAL SYMPOSIUM ON HIGH VOLTAGE TECHNOLOGY, MUNICH, GERMANY, MARCH 9-14, 1978 (K038183); 6 MONTHS \$341
- GROB, DAVID; TRAVEL TO ATTEND 1978 INTERNATIONAL CONFERENCE ON MAGNETICS, KYOTO, JAPAN, APRIL 10-13, 1978 (K038742); 6 MONTHS \$320
- WHITE, RICHARD N; TRAVEL TO ATTEND SYMPOSIUM ON MODEL ANALYSIS, SYDNEY, AUSTRALIA, MAY 16-18, 1978 (K038743); 6 MONTHS \$1,030
- MATJEVIC, EGON; TRAVEL TO ATTEND SYMPOSIUM ON PARTICLE GROWTH IN SUSPENSIONS, LONDON, ENGLAND, APRIL 24-26, 1978 (K038744); 6 MONTHS \$604
- SCHILLING, DONALD L; TRAVEL TO ATTEND POPOV SOCIETY MEETING, MOSCOW, USSR, MAY 1978 (K038837); 6 MONTHS \$700
- SHAW, DAVID T; TRAVEL TO ATTEND THIRD INTERNATIONAL CONFERENCE ON THERMIONIC ELECTRIC POWER GENERATION, JULICH, FEDERAL REPUBLIC OF GERMANY, JUNE 5-9, 1978 (K038830); 6 MONTHS \$460
- BENENSON, DAVID M; TRAVEL TO ATTEND FIFTH ALL UNION CONFERENCE ON LOW TEMPERATURE PLASMA GENERATORS, NOVOSIBIRSK, U.S.S.R., JUNE 24-30, 1978 (K038836); 6 MONTHS \$710
- BERGER, MELVYN S; TO ATTEND A SUMMER SCHOOL ON SPECTRAL ANALYSIS OF NONLINEAR OPERATORS IN STIRIN, CZECHOSLOVAKIA, SEPTEMBER 12-17, 1971 (K039015); 6 MONTHS \$563
- WEST, JAMES E; TO ATTEND THE THIRD PRAGUE SYMPOSIUM ON GENERAL TOPOLOGY, PRAGUE, CZECHOSLOVAKIA, AUGUST 30 - SEPTEMBER 2, 1971 (K039041); 6 MONTHS \$630
- JANZ, GEORGE J; TO VISIT UNIVERSITIES AND RESEARCH INSTITUTES TO DISCUSS RESEARCH IN ELECTROCHEMISTRY IN MOSCOW, KIEV AND Leningrad, U.S.S.R., NOVEMBER 1971 (K039078); 6 MONTHS \$180
- SUNDELIN, RONALD M; TO ATTEND THE EIGHTH INTERNATIONAL CONFERENCE ON HIGH ENERGY ACCELERATORS, GENEVA, SWITZERLAND, SEPTEMBER 20-24, 1971 (K039063); 12 MONTHS \$484
- VON BORSTEL, ERNEST; TO ATTEND THE EIGHTH INTERNATIONAL CONFERENCE ON HIGH ENERGY ACCELERATORS, GENEVA, SWITZERLAND, SEPTEMBER 20-24, 1971 (K039061); 12 MONTHS \$645
- FOSSAN, DAVID B; ONE YEAR SABBATICAL AT UNIVERSITY OF MUNICH, GERMANY, AUGUST 28, 1971 - AUGUST 1, 1978 (K039089); 12 MONTHS \$444
- FLEISCHER, ROBERT L; TRAVEL EXPENSES FOR A SCIENTIFIC VISIT TO THE JOINT INSTITUTE FOR NUCLEAR RESEARCH, DUBNA, U.S.S.R., SEPTEMBER 21, 1971 - OCTOBER 2, 1971 (K039093); 12 MONTHS \$390
- ACKERBERG, ROBERT C; TO SPEND A YEAR OF SABBATICAL LEAVE IN THE DEPARTMENT OF MATHEMATICS, UNIVERSITY COLLEGE, LONDON, ENGLAND, SEPTEMBER 1, 1971 THROUGH AUGUST 31, 1978 (K039094); 12 MONTHS \$609
- PRA BHU, NARAHARI U; TO ATTEND CONFERENCE ON STORAGE THEORY, GYOR, HUNGARY, SEPTEMBER 12-18, 1971 (K039095); 12 MONTHS \$708
- KELLER, JOSEPH B; TO ATTEND INTERNATIONAL SYMPOSIUM ON ELECTROMAGNETIC WAVE THEORY, TBILISI, U.S.S.R., SEPTEMBER 9-13, 1971 (K039097); 12 MONTHS \$550
- NANCOLLAS, GEORGE H; TO ATTEND THIRD AUSTRALIAN ELECTROCHEMISTRY CONFERENCE, TERRIGAL, NEW SOUTH WALES, AUSTRALIA, FEBRUARY 16-18, 1978 (K039188); 6 MONTHS \$184
- DIPRIMA, RICHARD C; TO CONDUCT RESEARCH AT IMPERIAL COLLEGE, LONDON, ENGLAND, JANUARY 24, 1978 - FEBRUARY 4, 1978 (K039284); 6 MONTHS \$444
- BRUCKENSTEIN, STANLEY; TRAVEL TO ATTEND THE INTERNATIONAL CONGRESS OF ANALYTICAL CHEMISTRY, KYOTO, JAPAN, APRIL 3-7, 1978 (K039285); 6 MONTHS \$968
- MORRISON, GEORGE H; TO ATTEND THE INTERNATIONAL CONGRESS OF ANALYTICAL CHEMISTRY, KYOTO, JAPAN, APRIL 3-7, 1978 (K039286); 6 MONTHS \$1,046
- BOROWITZ, IRVING J; TRAVEL TO ZURICH, SWITZERLAND TO SPEND SABBATICAL SUMMER IN RESEARCH AT EDIGENOSSISCHE TECHNISCHE HOCHSCHULE (ETH), MAY-JULY, 1978 (K039310); 6 MONTHS \$300
- CHASE, STEPHEN U; TO ATTEND CONFERENCE ON RINGS, MODULES AND HOMOLOGICAL METHODS, OBERWOLFACH, GERMANY, APRIL 30-MAY 6, 1978 (K039317); 6 MONTHS \$382
- OWEN, TOBIAS; TRAVEL TO ATTEND SYMPOSIUM ON THE ORIGIN OF THE SOLAR SYSTEM, NICE, FRANCE, APRIL 2-8, 1978 (K039388); 6 MONTHS \$562
- ROSEN, ROBERT; TO COLLABORATE WITH SOVIET SCIENTISTS AT THE UNIVERSITIES IN MOSCOW, LENINGRAD AND NOVOSIBIRSK CONCERNING APPLICATION OF MATHEMATICAL TECHNIQUES TO BIOLOGICAL SYSTEMS DURING APRIL 1978 (K039331); 6 MONTHS \$600
- RAMIREZ, FAUSTO; TRAVEL TO ATTEND FIFTH ALL UNION ORGANOPHOSPHORUS CONFERENCE, MOSCOW, USSR, JUNE 24-30, 1978 (K039346); 6 MONTHS \$918
- KERKER, MILTON; TRAVEL TO INTERNATIONAL CONFERENCE 'CHEMISTRY AT INTERFACES', JUNE 27-JULY 8, 1978, ROVINI, YUGOSLAVIA (K039461); 6 MONTHS \$748
- TURRO, NICHOLAS J; TRAVEL TO FOURTH INTERNATIONAL SYMPOSIUM ON ORGANIC PHOTOCHEMISTRY, BADEN-BADEN, GERMANY, JULY 16-22, 1978 (K039469); 6 MONTHS \$639
- PADWA, ALBERT; TRAVEL TO FOURTH INTERNATIONAL SYMPOSIUM ON PHOTOCHEMISTRY, BADEN-BADEN, GERMANY, JULY 16-22, 1978 (K039469); 6 MONTHS \$650
- RITCHIE, CALVIN D; TRAVEL TO FIRST IUPAC CONFERENCE ON PHYSICAL ORGANIC CHEMISTRY, CRANS SUR SIERRA, SWITZERLAND, SEPTEMBER 1-5, 1978 (K039482); 6 MONTHS \$593
- ZUMAN, PETR; TRAVEL TO FIRST IUPAC CONFERENCE ON PHYSICAL ORGANIC CHEMISTRY, CRANS SUR SIERRA, SWITZERLAND, SEPTEMBER 1-5, 1978 (K039480); 6 MONTHS \$515
- LICHTENBAUM, STEPHEN; TO ATTEND ANNUAL RESEARCH CONFERENCE IN ALGEBRA, BONN, GERMANY, JUNE 9-16, 1978 (K039441); 6 MONTHS \$700
- CONDRADE, ROBERT A SR; TRAVEL TO ATTEND THIRD INTERNATIONAL CONFERENCE ON RAMAN SPECTROSCOPY, REIMS, FRANCE, SEPTEMBER 8-12, 1978 (K039488); 6 MONTHS \$534
- BAZER, JACK; TO ATTEND NATO ADVANCED STUDY INSTITUTE ON MAGNETOHYDRODYNAMIC PHENOMENA IN ROTATING FLUIDS, CAMBRIDGE, ENGLAND, JUNE 25 - JULY 4, 1978 (K039458); 6 MONTHS \$690
- MCMULTY, PETER J; TRAVEL TO ATTEND EIGHTH INTERNATIONAL CONFERENCE ON NUCLEAR PHOTOGRAPHY AND SOLID STATE TRACK DETECTORS, BUCHAREST, ROMANIA, JULY 10-15, 1978 (K039501); 12 MONTHS \$700
- GLASER, WILLIAM A; TO ATTEND 'CONFERENCE ON CROSS NATIONAL SURVEY RESEARCH', BUDAPEST, HUNGARY, JULY 21-28, 1978 (K039518); 12 MONTHS \$630
- GROSS, FELIX; TO ATTEND 'INTERNATIONAL CONFERENCE ON PROBLEMS AND PERSPECTIVES OF BORDER REGIONS', CORITZA, ITALY, MARCH 21-27, 1978 (K039519); 12 MONTHS \$629
- HAYES, DENNIS E; TRAVEL TO ATTEND THE INTERNATIONAL SYMPOSIUM ON THE OCEANOGRAPHY OF THE SOUTH PACIFIC, WELLINGTON, NEW ZEALAND, FEBRUARY 9-15, 1978 (K039177); 6 MONTHS \$1,308
- GORDON, ARNOLD L; TRAVEL TO ATTEND THE INTERNATIONAL SYMPOSIUM ON THE OCEANOGRAPHY OF THE SOUTH PACIFIC, WELLINGTON, NEW ZEALAND, FEBRUARY 9-15, 1978 (K039178); 6 MONTHS \$620

DALZIEL, IAN W D; TRAVEL TO ATTEND- NATO ADVANCED STUDY INSTITUTE, UNIVERSITY OF NEWCASTLE UPON TYNE, ENGLAND, APRIL 10-14, 1978 (V032789); 6 MONTHS \$411

KUTCHER, GERALD J; TO ATTEND- NATO ADVANCED STUDY INSTITUTES ON INTERACTION OF ENERGETIC CHARGED PARTICLES WITH SOLIDS, ISTANBUL, TURKEY, AUGUST 16-22, 1971 (Z002222); 6 MONTHS \$473

DUAX, WILLIAM L; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON DIRECT AND PATTERSON METHODS OF SOLVING CRYSTAL STRUCTURES, YORK, ENGLAND, SEPTEMBER 6-12, 1971 (Z002218); 6 MONTHS \$300

BARRY, B AUSTIN; THIRTEENTH INTERNATIONAL CONGRESS OF SURVEYORS WIESBADEN GERMANY (Z002293); 6 MONTHS \$436

DAVIS, ROBERT B; 9ND INTERNATL CONGRESS ON MATHEMATICAL EDUC EXETER ENGLAND 8/29-9/10/78 (Z002342); 6 MONTHS \$461

SCHARLEMANN, ERNST T; ASI ON HIGH EN ASTROPHYS&ITS REL TO ELEM PART ERICE IT 6/16-18/78 (Z002333); 6 MONTHS \$484

MILLET, CLARKE F; ASI ON MOLEC&CELLU ASPECTS&IMMUNOL CARRY-LE ROUYER FRANCE 9/1-10/78 (Z002333); 6 MONTHS \$319

SPITAL, ROBIN; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON ELECTROMAGNETIC INTERACTIONS OF ELEMENTARY SYSTEMS AT CARGESE, FRANCE ON JULY 4-29, 1978 (Z002379); 6 MONTHS \$300

CESARIO, FRANK J; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON RECENT DEVELOPMENTS 'IN' REGIONAL SCIENCE AT KARLSRUHE, GERMANY, JULY 21-AUGUST 11, 1978 (Z002327); 6 MONTHS \$420

ROSS, FRED K; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON EXPERIMENTAL ASPECTS OF X-RAY AND NEUTRON SINGLE CRYSTALL DIFFRACTION METHODS AT AARHUS, DENMARK JULY 31-AUGUST 11, 1978 (Z002329); 6 MONTHS \$281

LEYIN, DAVID N; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON HIGH-LIGHTS IN PARTICLE PHYSICS AT ERICE, ITALY, JULY 7-29, 1978 (Z002319); 6 MONTHS \$443

WILLIAMS, HUGH H; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON HIGH-LIGHTS IN PARTICLE PHYSICS AT ERICE, ITALY, JULY 7-29, 1978 (Z002302); 6 MONTHS \$433

STATE UNIVERSITY AT STONY BROOK

NEUBERGER, EGON; TRAVEL OF AMERICAN ECONOMISTS TO ATTEND- THE CONFERENCE ON GRANTS AND EXCHANGE IN AN URBANIZED SOCIETY, AUGSBURG, BAVARIA, AUGUST 21-24, 1978 (S041222); 12 MONTHS \$1,850

YESHIVA UNIVERSITY-ALBERT EINSTEIN COLLEGE OF MEDICINE

AUGUST, J THOMAS; TRAVEL TO ATTEND- SYMPOSIUM ON PROTEIN SYNTHESIS AND NUCLEIC ACIDS, LAPLATA, ARGENTINA, NOVEMBER 24, THROUGH DECEMBER 2, 1971. (B030643); 12 MONTHS \$2,000

NORTH CAROLINA

HOMMERSAND, MAX H; TO ATTEND- SEVENTH INTERNATIONAL SEAWEED SYMPOSIUM, SAPPORO, JAPAN, AUGUST 8-19, 1971 (A030111); 6 MONTHS \$1,025

TEXTORIS, DANIEL ANDREW; TO ATTEND- EIGHTH INTERNATIONAL SEDIMENTOLOGICAL CONGRESS, 1971, HEIDELBERG, WEST GERMANY, AUGUST 30 - SEPTEMBER 4, 1971 (A030229); 6 MONTHS \$485

LYMAN, JOHN; TRAVEL TO ATTEND- SECOND INTERNATIONAL CONGRESS ON THE HISTORY OF OCEANOGRAPHY, EDINBURGH, SCOTLAND, SEPTEMBER 19-30, 1972 (A032258); 6 MONTHS \$485

VANDENBERG, JOHN G; TRAVEL SUPPORT TO ATTEND- THIRD INTERNATIONAL SYMPOSIUM ON COMPARATIVE REPRODUCTION, UNITED KINGDOM, MARCH 1978 (B032528); 6 MONTHS \$392

BERGERON, JAN A; TRAVEL TO ATTEND- SEMINAR ON PROSIMIAN BIOLOGY, ENGLAND, APRIL 1978 (B033912); 6 MONTHS \$332

CALINGAERT, PETER; VISIT TO THE U.S.S.R. AS A GUEST OF THE SOVIET ACADEMY OF SCIENCES, MAY 1978 (J033612); 6 MONTHS \$638

YESIC, ALEKSANDAR S; TO SPEND SABBATICAL LEAVE AT CAMBRIDGE UNIVERSITY, ENGLAND, DECEMBER 15, 1971 THROUGH JUNE 15, 1978 (K031187); 18 MONTHS \$250

BEATTY, KENNETH O JR; TRAVEL TO ATTEND- ASSEMBLY FOR INTERNATIONAL HEAT TRANSFER CONFERENCES AND THE FOURTH ALL UNION HEAT AND MASS TRANSFER CONFERENCE, MINSK, USSR, MAY 13-20, 1979 (K032727); 6 MONTHS \$300

BUCK, RICHARD P; TO ATTEND- TWENTY-SECOND INTERNATIONAL COMMITTEE COMMITTEE OF THERMODYNAMIC AND ELECTROCHEMICAL (C.I.T.C.E.), DUBROVNIK, YUGOSLAVIA, SEPTEMBER 19-SEPTEMBER 19-25, 1971 (P030115); 6 MONTHS \$500

CLOUGH, G WAYNE; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON FINITE ELEMENT METHODS IN CONTINUUM MECHANICS, LISBON, PORTUGAL, SEPTEMBER 7-17, 1971 (Z002239); 6 MONTHS \$407

NORTH DAKOTA

SOONPAA, HENN H; TRAVEL TO ATTEND- INTERNATIONAL CONFERENCE ON THIN FILM PHYSICS, VENICE, ITALY, MAY 15-19, 1978 (H034429); 6 MONTHS \$283

CLARK, TOMMY DEAN; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON FROHLICH POLARONS, ANTWERP, BELGIUM, AUGUST 16-22, 1971 (Z002232); 6 MONTHS \$278

OHIO

RUDNEY, HARRY; TRAVEL TO ATTEND- GOLDEN JUBILEE OF THE INDIAN INSTITUTE OF SCIENCE, BANGALORE, INDIA, DECEMBER 2-9, 1971 (B031722); 6 MONTHS \$387

SCOTT, ROY A III; TRAVEL TO ATTEND- SYMPOSIUM ON CONFORMATION OF BIOLOGICAL POLYMERS, ISRAEL, APRIL 1978 (B043112); 6 MONTHS \$230

GOTTLIEB, DAVID; CONFERENCE OF THE SOCIETY OF APPLIED BACTERIOLOGY, LOUGHBOROUGH, ENGLAND, JULY 10-12, 1978 (B031712); 6 MONTHS \$284

STRNAT, KARL J; TRAVEL TO ATTEND- 1978 INTERNATIONAL CONFERENCE ON MAGNETICS, KYOTO, JAPAN, APRIL 10-13, 1978 (H033007); 6 MONTHS \$602

LANDO, JEROME B; TRAVEL TO ATTEND- THIRD INTERNATIONAL SYMPOSIUM ON CHEMISTRY OF THE ORGANIC SOLID STATE, GLASGOW, SCOTLAND, SEPTEMBER 18-22, 1978 (H031222); 6 MONTHS \$488

HIBBELER, RUSSEL C; TO ATTEND- FIRST INTERNATIONAL CONFERENCE ON STRUCTURAL MECHANICS IN REACTOR TECHNOLOGY, BERLIN, GERMANY - SEPTEMBER 20-24, 1971 (K030222); 6 MONTHS \$210

WEED, HERMAN R; TO ATTEND- NINTH INTERNATIONAL CONFERENCE ON MEDICAL AND BIOLOGICAL ENGINEERING-MELBOURNE, AUSTRALIA - AUGUST 22-27, 1971 (K030222); 6 MONTHS \$700

OJALVO, MORRIS; TO ATTEND- INTERNATIONAL SYMPOSIUM ON EXPERIMENTAL ANALYSIS OF INSTABILITY PROBLEMS ON REDUCED AND FULL SCALE MODELS - EUNOS AIRES, ARGENTINA SEPTEMBER 13-15, 1971 (K030201); 6 MONTHS \$272

GOBLE, GEORGE G; TO ATTEND- THE MEETING ON MASS-PRODUCED STEEL STRUCTURES, PRAQUE, CZECHOSLOVAKIA, SEPTEMBER 22-24, 1971 (K030124); 6 MONTHS \$460

KEENAN, PHILIP C; TO ATTEND- THE I.A.U. SYMPOSIUM ON SPECTRAL CLASSIFICATION AND MULTICOLOR PHOTOMETRY, CORDOBA, ARGENTINA, OCTOBER 12-24, 1971 (P030212); 6 MONTHS \$771

PARSONS, SIDNEY B; TO ATTEND- THE THIRD TRIESTE COLLOQUIUM ON ASTROPHYSICS 'SUPERGIANT STARS', TRIESTE, ITALY, SEPTEMBER 6-8, 1971 (P030212); 6 MONTHS \$484

AHLWEDE, RUDOLF; TO ATTEND- THE SIXTH PRAQUE CONFERENCE ON INFORMATION THEORY, STATISTICAL DECISION FUNCTIONS, AND RANDOM PROCESSES, PRAQUE, CZECHOSLOVAKIA, SEPTEMBER 15-22, 1971 (P030212); 6 MONTHS \$749

YEAGER, ERNEST B; TO ATTEND- THIRD AUSTRALIAN ELECTROCHEMISTRY CONFERENCE, TERRIGALL, NEW SOUTH WALES, AUSTRALIA, FEBRUARY 16-18, 1972 (P031822); 6 MONTHS \$1,001

MARK, HARRY B JR; TO ATTEND- THE INTERNATIONAL CONGRESS ON ANALYTICAL CHEMISTRY, KYOTO, JAPAN, APRIL 2-7, 1972 (P031820); 6 MONTHS \$964

ORCHIN, MILTON; TRAVEL TO ATTEND- SYMPOSIUM ON CHEMISTRY OF HYDROFORMYLATION AND RELATED REACTIONS, VESZPREM, HUNGARY, MAY 21 - JUNE 2, 1978 (P032750); 6 MONTHS \$597

DELSEMME, A H; TRAVEL TO ATTEND- COLLOQUIUM NO. 22 OF THE INTERNATIONAL ASTRONOMICAL UNION, NICE, FRANCE, APRIL 2-7, 1972 (P032222); 6 MONTHS \$215

CAPRIOTTI, EUGENE R; TRAVEL TO ATTEND- EIGHTEENTH INTERNATIONAL ASTROPHYSICAL SYMPOSIUM, LISBE, BELGIUM, JUNE 22-27, 1972 (P032222); 6 MONTHS \$532

ASTON, JOHN G; TRAVEL TO ATTEND- THIRD EUROPEAN CONFERENCE ON THERMAL PHYSICAL PROPERTIES OF SOLIDS AT HIGH TEMPERATURES, TURIN, ITALY, JUNE 19-25, 1972 (P031612); 6 MONTHS \$238

KENNEDY, JOSEPH P; TRAVEL TO INTERNATIONAL SYMPOSIUM ON MACROMOLECULES, HELSINKI, FINLAND, JULY 2-8, 1978 (P031612); 6 MONTHS \$216

RAO, K NARAHARI; TRAVEL TO ATTEND- (1) SECOND INTERNATIONAL SEMINAR ON HIGH RESOLUTION INFRARED SPECTROSCOPY, SEPTEMBER 2-8, 1978 PRAGUE, CZECHOSLOVAKIA (2) SYMPOSIUM ON HIGH RESOLUTION MOLECULAR SPECTROSCOPY, SEPTEMBER 10-13, 1978 NOVOSIBIRSK, USSR (P031222); 6 MONTHS \$783

VARGA, RICHARD S; TO CONSULT WITH SCIENTISTS ON THE NUMERICAL SOLUTION OF ELLIPTIC AND PARABOLIC PARTIAL DIFFERENTIAL EQUATIONS, IN NOVOSIBIRSK, U.S.S.R. JUNE 17 - JULY 4, 1979 (P031222); 6 MONTHS \$700

JANKO, ZVONIMIR; TO ATTEND- THE WARWICK GROUP THEORY SYMPOSIUM, WARWICK, ENGLAND, OCTOBER 1 - DECEMBER 31, 1978 (P031222); 6 MONTHS \$567

SCHOFF, JAMES M; TRAVEL TO ATTEND- NATO ADVANCED STUDY INSTITUTE, UNIVERSITY OF NEWCASTLE UPON TYNE, ENGLAND, APRIL 10-14, 1978 (V032730); 6 MONTHS \$591

STUMP, EDMUND; TRAVEL TO REPUBLIC OF SOUTH AFRICA TO CONFER WITH SPECIALISTS AND VISIT CRITICAL LOCALITIES FOR COMPARISON WITH ANTARCTIC MATERIALS, SEPTEMBER 1978 (V032727); 12 MONTHS \$1,430

MERCER, JOHN H.; TRAVEL TO ATTEND- SECOND CONFERENCE ON QUATERNARY STUDIES OF THE ANTARCTIC REGION, CANBERRA, AUSTRALIA, AUGUST 7-9, 1974 (V031492); 6 MONTHS \$1,111

WAGNER, THOMAS E.; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON FUNDAMENTAL ASPECTS AND RECENT DEVELOPMENTS IN OPTICAL ROTATORY DISPERSION AND CIRCULAR DICHROISM, TIRRENIA, ITALY, SEPTEMBER 6-18, 1971 (Z000448); 6 MONTHS \$491

CLINE, MORRIS G.; A ST 1 MOD ASPECTS/HORM REG IN PLANT GROWTH IZMIR TURK/90-01111 (Z002264); 6 MONTHS \$636

STUMP, EDMUND; ASI ON CONT DRIFT SEA-FLR SPREAD&PLATE TECT IMPLIC FOR E-SCI 110-1474 (Z004327); 6 MONTHS \$567

NAINIS, W SCOTT; ASI ON DECOMP AS A TOOL F SOLVING LARGE SCALE PROB CAMB ENG 717-36174 (Z008373); 6 MONTHS \$461

OKLAHOMA

WEINHEIMER, ALFRED J.; TRAVEL TO ATTEND- THE EIGHTH INTERNATIONAL SYMPOSIUM ON THE CHEMISTRY OF NATURAL PRODUCTS, INDIA, FEBRUARY 1974 (B032199); 6 MONTHS \$1,299

PISHKIN, VLADIMIR; TRAVEL TO- ACCEPT INVITATION BY SOVIET NATIONAL COMMITTEE, IBP TO VISIT USSR SCIENCE INSTITUTES AND CONFER WITH THEIR LEADING SCIENTISTS, SEPTEMBER-OCTOBER 1974 (V032746); 6 MONTHS \$1,000

SHURLEY, JAY T.; TRAVEL TO- ACCEPT INVITATION BY SOVIET NATIONAL COMMITTEE, IBP TO VISIT USSR SCIENCE INSTITUTES AND CONFER WITH THEIR LEADING SCIENTISTS, SEPTEMBER-OCTOBER 1974 (V033101); 6 MONTHS \$1,000

MUCHMORE, HAROLD G.; TRAVEL SUPPORT TO ATTEND- SYMPOSIUM ON HUMAN BIOLOGY AND MEDICINE IN THE ANTARCTIC, CAMBRIDGE, ENGLAND, SEPTEMBER 19-21, 1974 (V033189); 6 MONTHS \$632

BLACKBURN, ARCHIE B.; TRAVEL TO ATTEND- SYMPOSIUM ON HUMAN BIOLOGY AND MEDICINE IN THE ANTARCTIC, CAMBRIDGE, ENGLAND, SEPTEMBER 19-21, 1974 (V033190); 6 MONTHS \$632

NATANI, KIRMACH; TRAVEL TO ATTEND- SYMPOSIUM ON HUMAN BIOLOGY AND MEDICINE IN THE ANTARCTIC, CAMBRIDGE, ENGLAND, SEPTEMBER 19-21, 1974 (V033191); 6 MONTHS \$632

OREGON

KOMAR, PAUL DOUGLAS; TO ATTEND- EIGHTH INTERNATIONAL SEDIMENTOLOGICAL CONGRESS, HEIDELBERG, GERMANY, AUGUST 30-SEPTEMBER 10, 1971 (A030110); 6 MONTHS \$751

HEDGPETH, JOEL W.; TRAVEL TO ATTEND- MEETING ON HISTORY OF OCEANOGRAPHY, EDINBURGH, SCOTLAND, AND INTERNATIONAL HELGOLAND SYMPOSIUM, WEST GERMANY, SEPTEMBER 4-22, 1972 (A031012); 6 MONTHS \$825

HODGSON, ROBERT T.; TRAVEL TO ATTEND- MEETING OF THE SCIENTIFIC COMMISSION OF PHYSICAL OCEANOGRAPHY OF IAPSO ON OPTICAL ASPECTS OF OCEANOGRAPHY, COPENHAGEN, DENMARK, JUNE 19-22, 1974 (A032253); 6 MONTHS \$885

GRAY, JANE; TO ATTEND- THE SILVER JUBILEE OF THE BIRBAL SAHNI INSTITUTE OF PALEBOTANY, LUCKNOW, INDIA, DECEMBER 5-11, 1971 (B031838); 6 MONTHS \$393

FRYKLUND, JAMES W.; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON MICROPROGRAMMING, ST. RAPHAEL, FRANCE, AUGUST 30-SEPTEMBER 10, 1971 (Z002458); 6 MONTHS \$620

HOLDEN, JOHN P.; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON THEORETICAL PHYSICS - STRONG INTERACTIONS AT KAISERSLAUTERN, GERMANY, JULY 17-28, 1972 (Z002582); 6 MONTHS \$472

PENNSYLVANIA

SPACKMAN, WILLIAM; TO ATTEND- THE INTERNATIONAL COMMITTEE FOR COAL PETROLOGY, KREFELD, GERMANY, AUGUST 20-28, 1971 (A030532); 6 MONTHS \$701

BURSTYN, HAROLD L.; TRAVEL SUPPORT TO ATTEND- SECOND INTERNATIONAL CONGRESS OF THE HISTORY OF OCEANOGRAPHY, EDINBURGH, SCOTLAND, SEPTEMBER 12-20, 1974 (A031784); 6 MONTHS \$559

FEINGOLD, DAVID S.; TO ATTEND- THE SYMPOSIUM ON THE BIOCHEMISTRY OF GLYCOSIDIC LINKAGES, SAN CARLOS DE BARILOCHE, ARGENTINA, NOVEMBER 8-11, 1971 (B031524); 6 MONTHS \$631

BELTON, GEOFFREY R.; TRAVEL TO ATTEND- THIRD AUSTRALIAN ELECTROCHEMISTRY CONFERENCE, TERRIGAL, NEW SOUTH WALES, AUSTRALIA, FEBRUARY 16-18, 1972 (H032144); 6 MONTHS \$400

FISCHER, JOHN E.; TRAVEL TO ATTEND- INTERNATIONAL CONFERENCES- (1) BAND STRUCTURE IN SOLIDS, GREAT GREAT BRITAIN, (2) DEFECTS IN SEMICONDUCTORS, GREAT BRITAIN AND (3) PHYSICS OF SEMICONDUCTORS, WARSAW, POLAND, JULY 3-29, 1972 (H033017); 6 MONTHS \$381

EASTMAN, CHARLES W.; TRAVEL TO ATTEND- SECOND INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE, LONDON, ENGLAND, SEPTEMBER 1-3, 1971 (Z030280); 6 MONTHS \$350

HARRIS, DEVERLE P.; TO ATTEND- THE TENTH INTERNATIONAL SYMPOSIUM ON THE APPLICATION OF COMPUTER METHODS IN THE MINERAL INDUSTRY, JOHANNESBURG, SOUTH AFRICA, APRIL 9-14, 1972 (J032279); 6 MONTHS \$700

ERDOGAN, FAZIL; TO ATTEND- FIRST INTERNATIONAL CONFERENCE ON STRUCTURAL MECHANICS IN REACTOR TECHNOLOGY, BERLIN, GERMANY - SEPTEMBER 20-24, 1971 (K030968); 6 MONTHS \$300

FROMM, ELLI; TO ATTEND- NINTH INTERNATIONAL CONFERENCE ON MEDICAL AND BIOLOGICAL ENGINEERING, MELBOURNE, AUSTRALIA - AUGUST 23-27, 1971 (K000244); 6 MONTHS \$810

SHERMAN, ZACHARY; TO ATTEND- THE TWENTY-SECOND CONGRESS OF THE INTERNATIONAL ASTRONAUTICAL FEDERATION, BRUSSELS, BELGIUM, SEPTEMBER 20-25, 1971 (K030130); 6 MONTHS \$410

SHORE, SIDNEY; TO ATTEND- THE INTERNATIONAL ASSOCIATION OF SHELL STRUCTURES SYMPOSIUM, TOKYO, JAPAN, OCTOBER 17-22, 1971 (K030111); 6 MONTHS \$450

GEORGE, WILLIAM K JR.; TRAVEL SUPPORT TO ATTEND- THE CONFERENCE ON FLUID DYNAMIC MEASUREMENTS, LEICESTER, ENGLAND, APRIL 18-14, 1972 (K031843); 6 MONTHS \$438

ABRAMS, JOEL I.; TRAVEL SUPPORT TO ATTEND- THE NINTH CONGRESS OF THE INTERNATIONAL ASSOCIATION FOR BRIDGE & STRUCTURAL ENGINEERING, AMSTERDAM, NETHERLANDS, MAY 8-13, 1972 (K032600); 6 MONTHS \$400

WHALEY, RANDAL M.; TO ATTEND- THE TWENTY-FIFTH CONGRESS OF INTERNATIONAL SCIENTIFIC FILM ASSOCIATION, KIEV, U.S.S.R., SEPTEMBER 21-29, 1971 (N031845); 6 MONTHS \$813

ZETTEMÖYER, ALBERT C.; TO ATTEND- FARADAY SOCIETY DISCUSSIONS 'SURFACE CHEMISTRY OF OXIDES', LONDON, ENGLAND, SEPTEMBER 11-15, 1971 (P030159); 6 MONTHS \$41

HEICKLEN, JULIAN P.; TO ATTEND- TENTH INTERNATIONAL SYMPOSIUM ON FREE RADICALS, LYON, FRANCE, AUGUST 31 - SEPTEMBER 4, 1971 SIXTH INTERNATIONAL CONFERENCE ON PHOTOCHEMISTRY, BORDEAUX, FRANCE, SEPTEMBER 4-9, 1971 (P030162); 6 MONTHS \$563

KISSLINGER, LEONARD S.; TO ATTEND- THE FOURTH INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE, DUBNA, U.S.S.R., SEPTEMBER 7-11, 1971 (P030159); 6 MONTHS \$940

GERJUOV, EDWARD; TRAVEL TO VISIT SOVIET ACADEMY OF SCIENCES, MAY 1972 (P032233); 6 MONTHS \$459

ARNETT, EDWARD M.; TRAVEL TO- FIRST CONFERENCE ON PHYSICAL ORGANIC CHEMISTRY, CRANS SUR SIERRE, SWITZERLAND, SEPTEMBER 4-8, 1972 (P031881); 6 MONTHS \$538

POILE, JOHN A.; TRAVEL TO- FIRST IUPAC CONFERENCE ON PHYSICAL ORGANIC CHEMISTRY, CRANS SUR SIERRE, SWITZERLAND, SEPTEMBER 4-8, 1972 (P031887); 6 MONTHS \$548

BERNHEIM, ROBERT A.; TRAVEL TO- INTERNATIONAL CONFERENCE ON MOLECULAR SPECTROSCOPY, WROCAW, POLAND, SEPTEMBER 15-19, 1972 (P031813); 6 MONTHS \$714

KAY, JACK G.; TRAVEL TO- INTERNATIONAL CONFERENCE ON MOLECULAR SPECTROSCOPY, WROCAW, POLAND, SEPTEMBER 15-19, 1972 (P031817); 6 MONTHS \$670

STEELE, WILLIAM A.; TRAVEL TO ATTEND- THIRD INTERNATIONAL CONFERENCE ON RAMAN SPECTROSCOPY, REIMS, FRANCE, SEPTEMBER 8-12, 1972 (P031814); 6 MONTHS \$520

ACKOFF, RUSSELL L.; 4TH INTERNAT CONF ON OPERATIONS RESEARCH DUBLIN IRELAND 31/1-25/72 (Z002311); 6 MONTHS \$630

OMALLEY, THOMAS; ASI ON FACIAL STRUCICOMPACT CONVEX SETS&APPLICA SWANSE 2 A ENG 712-1512 (Z002372); 6 MONTHS \$475

BERMAN, HELEN M.; TO ATTEND- NATO ADVANCED STUDY INSTITUTE ON EXPERIMENTAL ASPECTS OF X-RAY AND NEUTRON SINGLE CRYSTAL DIFFRACTION METHODS AT AARHUS, DENMARK, JULY 21 - AUGUST 11, 1972 (Z002591); 6 MONTHS \$490

LEHIGH UNIVERSITY

HILLMAN, DONALD J.; TO ATTEND- THE JERUSALEM CONFERENCE ON INFORMATION TECHNOLOGY, JERUSALEM ISRAEL, AUGUST 16-20, 1971 (N030559); 6 MONTHS \$1,012

RHODE ISLAND

KRAUSE, DALE C.; TO ATTEND- THE FIFTEENTH GENERAL ASSEMBLY OF INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS, MOSCOW, U.S.S.R., AUGUST 2-14, 1971 (A030389); 6 MONTHS \$450

KRAUSE, DALE C.; TRAVEL TO ATTEND- THE INTERNATIONAL SYMPOSIUM ON THE OCEANOGRAPHY OF THE SOUTH PACIFIC, WELLINGTON, NEW ZEALAND, FEBRUARY 9-15, 1972 (A032115); 6 MONTHS \$500

HARGRAVES, PAUL E.; TRAVEL SUPPORT TO ATTEND- SECOND SYMPOSIUM ON RECENT AND FOSSIL MARINE DIATOMS, LONDON, ENGLAND, SEPTEMBER 4-9, 1972 (A033041); 6 MONTHS \$445

GLICKSMAN, MAURICE; CONFERENCE ON PLASMA THEORY, KIEV, USSR, OCTOBER 19-23, 1971 (P031266); 12 MONTHS \$576

WOLD, AARON; TRAVEL TO VISIT- UNIVERSITIES OF BORDEAUX AND PARIS, TO DISCUSS COLLABORATIVE RESEARCH PROGRAMS, JUNE 18-22, 1972 (P031821); 6 MONTHS \$652

WARD, HAROLD R.; TRAVEL TO ATTEND- SYMPOSIUM ON CHEMICALLY INDUCED DYNAMIC POLARIZATION OF NUCLEI, TALLINN, ESTONIAN S.S.R., AUGUST 12-18, 1972 (P031791); 6 MONTHS \$850

SPRAGUE, LUCIAN M.; TO ATTEND- THE SEVENTH SESSION OF THE INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION, PARIS, FRANCE, OCTOBER 26 - NOVEMBER 5, 1971 (K031531); 6 MONTHS \$932

SOUTH CAROLINA

- FERM, JOHN C; TO ATTEND THE INTERNATIONAL CONGRESS FOR STRATIGRAPHY AND GEOLOGY OF THE CARBONIFEROUS, KREFELD, GERMANY, AUGUST 21-28, 1971 (A030347); 6 MONTHS \$603
- HULBERT, SAMUEL F; TRAVEL TO ATTEND CONFERENCE ON MATERIALS, PROSTHESES AND AIDS TO THE HANDICAPPED, LIVERPOOL, ENGLAND, MARCH 26-31, 1972 (K032175); 6 MONTHS \$343
- LAW, ERNEST H; TO ATTEND ADVANCED STUDY INSTITUTE ON THEORY AND PRACTICE OF SYSTEMS IDENTIFICATION AND MODELLING - TOULOUSE, FRANCE - JULY 17-22, 1972 (Z0018604); 6 MONTHS \$276

TENNESSEE

- BIERNER, MARK W; TRAVEL TO ATTEND INTERNATIONAL SYMPOSIUM ON CHEMISTRY IN EVOLUTION AND SYSTEMATICS, STRASBOURG, FRANCE, JULY 2-8, 1972 (B034618); 6 MONTHS \$281
- SHAHROKHI, FIROUZ; TO ATTEND THE TWENTY-SECOND CONGRESS OF THE INTERNATIONAL ASTRONAUTICAL FEDERATION AND THE MEETING OF THE AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS, BRUSSELS, BELGIUM, SEPTEMBER 18-24, 1971 (K03047); 6 MONTHS \$370
- SCHAEFER, PHILIP W; TO ATTEND SYMPOSIUM ON LOGARITHMIC CONVEXITY AND NON WELL-POSED PROBLEMS, EDINBURGH, SCOTLAND, MARCH 22-24, 1972, AND CONFERENCE ON THEORY OF ORDINARY AND PARTIAL DIFF. EQS., DUNDEE, SCOTLAND, MARCH 28-31, 1972 (P033110); 6 MONTHS \$296
- PETERSON, JOSEPH B; TRAVEL TO ATTEND SYMPOSIUM ON THE CHEMISTRY OF TRANSURANIUM ELEMENTS, MOSCOW, RUSSIA, SEPTEMBER 4-8, 1972 (P034505); 6 MONTHS \$333
- HARVEY, J A; TRAVEL TO ATTEND CONFERENCE ON NUCLEAR STRUCTURE STUDY WITH NEUTRONS, BUDAPEST, HUNGARY, JULY 21-AUGUST 3, 1972 (P034922); 6 MONTHS \$446
- PRATT, LEE H; TO ATTEND NATO ADVANCED STUDY INSTITUTE ON PHYTOCHROME, ATHENS, GREECE, AUGUST 30 - SEPTEMBER 17, 1971 (Z002260); 6 MONTHS \$466

TEXAS

- MITTERER, RICHARD M; TO ATTEND THE EIGHTH INTERNATIONAL SEDIMENTOLOGICAL CONGRESS BEING HELD IN HEIDELBERG, GERMANY, AUGUST 20 - SEPTEMBER 3, 1971 AND THE FIFTH INTERNATIONAL MEETING ON ORGANIC GEOCHEMISTRY, HANNOVER, GERMANY, SEPTEMBER 7-10, 1971 (A030140); 6 MONTHS \$485
- REZAK, RICHARD; TO ATTEND THE EIGHTH INTERNATIONAL SEDIMENTOLOGICAL CONGRESS, HEIDELBERG, GERMANY, AUGUST 30 - SEPTEMBER 4, 1971 (A030145); 6 MONTHS \$710
- FRYXELL, GRETA A; TRAVEL TO ATTEND SECOND SYMPOSIUM ON RECENT AND FOSSIL MARINE DIATOMS, LONDON, ENGLAND, U.K., SEPTEMBER 1-9, 1972 (A032285); 6 MONTHS \$318
- HEIKKILA, WALTER J; TRAVEL TO ATTEND COSPAR, FIFTEENTH PLenary MEETING, MADRID, SPAIN, MAY 10-21, 1972 (A032451); 6 MONTHS \$560
- WILHELM, JOHN A; TO VISIT THE UNIVERSITY OF GENEVA, GENEVA, SWITZERLAND, NOVEMBER 1971 THROUGH NOVEMBER 1972 (B031461); 12 MONTHS \$119
- SONG, PILL-SOON; TRAVEL SUPPORT TO ATTEND FOURTH INTERNATIONAL SYMPOSIUM ON FLAVINS AND FLAVOPROTEINS, GERMANY, MARCH 1972 (B032327); 6 MONTHS \$750
- SIKLOSSY, LAURENT; TRAVEL TO ATTEND SECOND INTERNATIONAL JOINT CONFERENCE ON ARTIFICIAL INTELLIGENCE, LONDON, ENGLAND, SEPTEMBER 1-5, 1971 (J030281); 6 MONTHS \$350
- SAGE, ANDREW P; TO ATTEND THE FIFTH WORLD CONGRESS OF THE INTERNATIONAL FEDERATION OF AUTOMATIC CONTROL, PARIS, FRANCE, JUNE 12-17, 1972 (J032278); 6 MONTHS \$591
- CRAWFORD, PAUL B; TRAVEL TO ATTEND TENTH INTERNATIONAL SYMPOSIUM ON THE APPLICATION OF COMPUTER METHODS IN THE MINERAL INDUSTRY, JOHANNESBURG, SOUTH AFRICA, APRIL 9-14, 1972 (J031660); 6 MONTHS \$1,051
- AGGARWAL, J K; TO ATTEND THE 1971 IEEE INTERNATIONAL SYMPOSIUM ON ELECTRICAL NETWORK THEORY, LONDON, ENGLAND, SEPTEMBER 6-10, 1971 (K030144); 6 MONTHS \$220
- BAILEY, JAMES E; TRAVEL TO ATTEND SEMINAR ON TOPICS IN SYSTEM THEORY PERIODIC OPTIMIZATION (K033229); 6 MONTHS \$520
- KRISTIANSEN, M; TRAVEL TO ATTEND FIFTH EUROPEAN CONFERENCE ON CONTROLLED FUSION AND PLASMA PHYSICS, GRENoble, FRANCE, AUGUST 21-25, 1972 (K032696); 6 MONTHS \$490
- JUHASZ, STEPHEN; TRAVEL TO ATTEND THIRTEENTH INTERNATIONAL CONGRESS OF TAM, MOSCOW, USSR, AUGUST 21-26 AND THE THIRTY-SIXTH CONFERENCE AND INTERNATIONAL MEETING OF FID, BUDAPEST, HUNGARY, SEPTEMBER 1-13, 1972 (K034735); 6 MONTHS \$744
- MOORE, C FRED; TO ATTEND MEETING ON CHEMICAL ANALYSIS BY CHARGED PARTICLE BOMBARDMENT, BRUSSELS, BELGIUM, SEPTEMBER 6-8, 1971 (P031006); 6 MONTHS \$725
- GINGERICH, KARL A; TO VISIT AND LECTURE AT THE UNIVERSITY OF ZURICH AND FEDERAL UNIVERSITY OF SWITZERLAND, DECEMBER 18-31, 1971 (P031883); 6 MONTHS \$358

- WAINERDI, RICHARD E; TRAVEL TO ATTEND SYMPOSIUM ON NUCLEAR ACTIVATION TECHNIQUES IN THE LIFE SCIENCES, LJUBLJANA, YUGOSLAVIA, APRIL 10-14, 1972 (P032142); 6 MONTHS \$500
- SHINE, HENRY J; TRAVEL SUPPORT TO ATTEND FIFTH SYMPOSIUM ON ORGANIC SULFUR CHEMISTRY, LUND, SWEDEN, JUNE 2-9, 1972 (P032700); 6 MONTHS \$490
- SZEBEHELY, VICTOR; TRAVEL FOR RESEARCH IN CELESTIAL MECHANICS TO ZURICH, SWITZERLAND AND ATHENS, GREECE AND TO ATTEND INTERNATIONAL MEETINGS IN OBERWOLFACH, WEST GERMANY AND VIENNA, AUSTRIA, AUGUST-NOVEMBER 1972 (P032188); 6 MONTHS \$520

- CURL, ROBERT F; TRAVEL TO ATTEND THE SECOND EUROPEAN MICROWAVE SPECTROSCOPY CONFERENCE, BANGOR, WALES, SEPTEMBER 14-22, 1972 (P035018); 6 MONTHS \$433
- THOMAS, ROBERT W; TO ATTEND TENTH C.I.R.E.T. CONFERENCE, BRUSSELS, BELGIUM, SEPTEMBER 14-17, 1971 (S031051); 6 MONTHS \$170
- HOLE, FRANK; TO ATTEND RESEARCH SEMINAR IN ARCHAEOLOGY AND RELATED SUBJECTS, SHEFFIELD, ENGLAND - DECEMBER 13-17, 1971 (S031270); 6 MONTHS \$433
- FRANCESCHINI, GUY A; TRAVEL TO ATTEND INTERNATIONAL RADIATION SYMPOSIUM, SENDAI, JAPAN, MAY 26-JUNE 2, 1972 (V032252); 6 MONTHS \$1,130
- FEAGIN, TERRY; TO ATTEND NATO ADVANCED STUDY INSTITUTE ON DYNAMICAL ASTRONOMY AT CORTINA D'AMPEZZO, ITALY, AUGUST 9-21, 1972 (Z0022595); 6 MONTHS \$713

SOUTHWEST RESEARCH INSTITUTE

- BLACK, DAVID L; THE III INTER-AMERICAN CONFERENCE ON MATERIALS TECHNOLOGY TO BE HELD IN RIO DE JANEIRO, AUGUST 14-17, 1972 (H032423); 9 MONTHS \$7,000

UTAH

- ALLEN, EDWARD H; TO ATTEND CYBERNETICS AND SYSTEMS RESEARCH MEETINGS, VIENNA, AUSTRIA - MAY 23-25, 1972 (S032868); 6 MONTHS \$315
- MULLER-SCHWARZE, C; TRAVEL TO ATTEND THE TWELFTH INTERNATIONAL ETHOLOGICAL CONFERENCE, EDINBURGH, GREAT BRITAIN, SEPTEMBER 7-16, 1971 (V030013); 6 MONTHS \$795

VERMONT

- MCLAY, RICHARD W; TO ATTEND NATO ADVANCED STUDY INSTITUTE ON FINITE ELEMENT METHODS IN CONTINUUM MECHANICS, LISBON, PORTUGAL, SEPTEMBER 7-17, 1971 (Z002264); 6 MONTHS \$411

VIRGINIA

- JOHNSON, RONALD E; TO ATTEND INTERNATIONAL SYMPOSIUM ON THE OCEANOGRAPHY OF THE SOUTH PACIFIC, WELLINGTON, NEW ZEALAND, FEBRUARY 9-13, 1972 (A031849); 6 MONTHS \$690
- JOHNSON, RONALD E; TO ATTEND INTERNATIONAL SYMPOSIUM ON THE OCEANOGRAPHY OF THE SOUTH PACIFIC, WELLINGTON, NEW ZEALAND, FEBRUARY 9-13, 1972 (A031848 001); \$627
- MANGUM, CHARLOTTE P; TRAVEL SUPPORT TO ATTEND MEETING ON EFFECT OF TEMPERATURE ON HETEROTHERMIC ORGANISMS, OBERGURGL, AUSTRIA, EIGHTH EUROPEAN MARINE BIOLOGICAL SYMPOSIUM, TEXEL, HOLLAND, SEPTEMBER 4-8 AND SEPTEMBER 11-16, 1972 (A032628); 6 MONTHS \$571
- DANIELSON, DONALD A; TO OBTAIN INFORMATION ON SCIENTIFIC RESEARCH AND RELATED ACTIVITIES, COPENHAGEN, DENMARK, AND DELFT, THE NETHERLANDS, AUGUST 1-31, 1971 (P030398); 6 MONTHS \$436
- EISENBERG, JUDAH M; TO ATTEND THE FOURTH INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE, DUBNA, U.S.S.R., SEPTEMBER 7-11, 1971 (P030450); 6 MONTHS \$883
- JENKINS, DAVID A; TO ATTEND THE FOURTH INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE, DUBNA, U.S.S.R., SEPTEMBER 7-11, 1971 (P030451); 6 MONTHS \$648
- SNYDER, LEWIS E; TRAVEL SUPPORT TO ATTEND WORKSHOP ON MOLECULES IN SPACE, OBERSTORF IM ALGOU, WEST GERMANY, APRIL 17-19, 1972 (P032709); 6 MONTHS \$611
- TYREE, SHEPPARD Y JR; TRAVEL TO INTERNATIONAL CONFERENCE 'CHEMISTRY AT INTERFACES', ROVINJ, YUGOSLAVIA, JUNE 27-JULY 6, 1972 (P031617); 6 MONTHS \$474
- PHILLIPS, MICHAEL W; ADV STY INST ON FELDSPARS MANCHESTER ENGLAND 7/11-20/72 (Z002554); 6 MONTHS \$464

WASHINGTON

- ROBERTSON, DAVID E; TO ATTEND SEMINAR ON MARINE RADIOECOLOGY BEING HELD IN HAMBURG, GERMANY, SEPTEMBER 29-31, 1971 (A030143); 6 MONTHS \$226
- HALPERIN, WALTER; TO ATTEND THE INTERNATIONAL SYMPOSIUM ON PLANT TISSUE CULTURE, DELHI, INDIA, NOVEMBER 17-24, 1971 (B032142); 6 MONTHS \$1,116

BOSTROM, R C; TRAVEL TO ATTEND ROYAL SOCIETY (LONDON) MEETING ON SENSING EARTH DEFORMATION, LONDON, ENGLAND, MAY 10-12, 1972 (FOJ434); 6 MONTHS \$717

SOBOLEWSKI, JOHN S; TO ATTEND FIFTH AUSTRALIAN COMPUTER CONFERENCE, BRISBANE, AUSTRALIA, MAY 22-26, 1972 (UOJ204); 6 MONTHS \$529

CROWE, CLAYTON T; TO ATTEND THE INTERNATIONAL SYMPOSIUM ON TWO-PHASE SYSTEMS, HAIFA, ISRAEL, AUGUST 29 - SEPTEMBER 2, 1971 (K0J019); 6 MONTHS \$500

ISHIMARU, AKIRA; TO ATTEND THE 1971 INTERNATIONAL SYMPOSIUM ON ANTENNAS AND PROPAGATION, SENDAI, JAPAN, SEPTEMBER 1-5, 1971 (K0J039); 6 MONTHS \$500

STOEBE, THOMAS G; TO ATTEND THE THIRD INTERNATIONAL CONFERENCE ON LUMINESCENCE DOSIMETRY, ROSKILDE, DENMARK, OCTOBER 11-14, 1971 (K0J074); 6 MONTHS \$240

HEWITT, EDWIN; TO ATTEND THE SYMPOSIUM ON CONTINUUM MECHANICS AND RELATED PROBLEMS OF ANALYSIS, TBILISI, GEORGIA, U.S.S.R., SEPTEMBER 23-29, 1971 (P0J080); 6 MONTHS \$1,198

CUNNINGHAM, TIMOTHY J; TO ATTEND NATO ADVANCED STUDY INSTITUTE ON STRUCTURAL, FUNCTIONAL AND CHEMICAL CHARACTERISTICS OF DEVELOPING NEURONS AND NEURON SETS, ST. VINCENT, ITALY, AUGUST 29 - SEPTEMBER 11, 1971 (Z00234); 6 MONTHS \$500

FUHR, RICHARD D; ASI ON FACIAL STRUCTURE COMPACT CONVEX SETS & APPLICA SWANSEA ENG 712-1318 (Z00233); 6 MONTHS \$417

WISCONSIN

BAILEY, STURGES W; TRAVEL TO ATTEND INTERNATIONAL CLAY CONFERENCE, MADRID, SPAIN, JUNE 23-JULY 7, 1972 (A0J117); 6 MONTHS \$328

REED, JOHN F; TRAVEL TO ATTEND UNESCO INTERGOVERNMENTAL COORDINATING COUNCIL, PARIS, FRANCE, NOVEMBER 9-19, 1971 (B0J158); 6 MONTHS \$264

VANDERKOOI, GARRET; TRAVEL TO ATTEND SYMPOSIUM ON CONFORMATION OF BIOLOGICAL POLYMERS, ISRAEL, APRIL 1972 (B0J311); 6 MONTHS \$549

BURGESS, RICHARD R; TRAVEL TO ATTEND BIOCHEMISTRY OF GENE EXPRESSION IN HIGHER ORGANISMS, AUSTRALIA, MAY 1972 (B0J380); 6 MONTHS \$568

BROCK, THOMAS D; TRAVEL TO ATTEND SYMPOSIUM OF MODERN METHODS IN THE STUDY OF MICROBIAL ECOLOGY, UPPSALA, SWEDEN, JUNE 19-23, 1972 (B0J457); 6 MONTHS \$695

FERRY, JOHN D; TRAVEL SUPPORT TO RECEIVE COLWYN MEDAL OF THE INSTITUTION OF THE RUBBER INDUSTRY, BRIGHTON, ENGLAND, MAY 17-19, 1972 (H0J117); 6 MONTHS \$615

SHAPIRO, STUART C; TRAVEL TO ATTEND SECOND INTERNATIONAL JOINT CONFERENCE ON ARTIFICIAL INTELLIGENCE, LONDON, ENGLAND, SEPTEMBER 1-3, 1971 (U0J029); 6 MONTHS \$350

TROST, BARRY M; TO PRESENT LECTURES AND CONDUCT RESEARCH AT THE INSTITUTE FOR ORGANIC CHEMISTRY, PHILIPPS UNIVERSITY, MARBURG, GERMANY, APRIL 1 - JULY 13, 1972 (P0J219); 6 MONTHS \$698

RUDIN, MARY E; TO ATTEND MATHEMATICAL SOCIETY COLLOQUIUM ON TOPOLOGY, KESZTHELY, HUNGARY, JUNE 19-23, 1972 (P0J253); 6 MONTHS \$526

SCHRAO, JOHN L; TRAVEL SUPPORT TO ATTEND THE ANNUAL MEETING OF THE CHEMICAL SOCIETY, MANCHESTER, ENGLAND, APRIL 11-18, 1972 (P0J273); 6 MONTHS \$672

LEVY, LAWRENCE S; TO ATTEND CONFERENCE ON RINGS, MODULES AND HOMOLOGICAL METHODS, OBERWOLFACH, GERMANY, APRIL 30-MAY 4, 1972 (P0J212); 6 MONTHS \$624

COOPER, STUART L; TRAVEL TO INTERNATIONAL SYMPOSIUM OF MACROMOLECULES, HELSINKI, FINLAND, JULY 2-8, 1972 (P0J168); 6 MONTHS \$750

SONNEDECKER, GLENN A; TO ATTEND INTERNATIONAL CONGRESS FOR THE HISTORY OF PHARMACY, PRAGUE, CZECHOSLOVAKIA - SEPTEMBER 20-25, 1971 (S00233); 12 MONTHS \$725

KLEIN, SHELDON; TRAVEL TO CONDUCT RESEARCH IN MOSCOW, U.S.S.R., DECEMBER 1972 THROUGH MAY 1973 (S0J171); 12 MONTHS \$345

KLUS, JOHN P; FEANIUNESCO SEMINAR ON CONT EDUCIENG IN HELSINKI FINLAND 8121-2172 (Z00252); 11 MONTHS \$340

MCLINDEN, LYNN; ADV ST INST ON MATH PROG IN THEORY & PRACTICE COIMBR PORTUGAL 6112-43172 (Z00256); 6 MONTHS \$451

WYOMING

HOLT, SMITH L; TO CONDUCT RESEARCH AND DISCUSS COLLABORATIVE RESEARCH PROGRAMS AT THE H. C. ORSTED INSTITUTE, COPENHAGEN, DENMARK, AND THE UNIVERSITY OF BORDEAUX, BORDEAUX, FRANCE, OCTOBER 1 - NOVEMBER 7, 1971 (P0J053); 6 MONTHS \$610

INTERNATIONAL INSTITUTE FOR APPLIED SYSTEMS ANALYSIS

DISTRICT OF COLUMBIA

NATIONAL ACADEMY OF SCIENCES

COLEMAN, JOHN S; PLANNING DEVELOPMENT FOR U.S. PARTICIPATION IN PROPOSED INTERNATIONAL INSTITUTE FOR APPLIED SYSTEMS ANALYSIS (C010181 000); 6 MONTHS \$38,000

TODD, W MURRAY; U.S. PARTICIPATION IN THE PROPOSED INTERNATIONAL INSTITUTE OF APPLIED SYSTEMS ANALYSIS (C01043); 36 MONTHS \$676,700

SPECIAL FOREIGN CURRENCY-RESEARCH SUPPORT

EGYPT

AMERICAN UNIVERSITY OF CAIRO

BISHAY, ADLI, AND KREIDL, N J; THE STATES OF SILVER IN SELECTED VITREOUS SYSTEMS (FOJ1600 X00); 12 MONTHS \$20,870

INDIA

INDIAN INSTITUTE OF TECHNOLOGY

SODHA, M S; ANALYTICAL INVESTIGATION OF STEADY AND NON-STEADY ELECTROMAGNETIC WAVE PROPAGATION IN NONUNIFORM AND NONLINEAR MEDIA (FOJ1174); 24 MONTHS \$21,166

UNIVERSITY OF DELHI

AULUCK, F C; TO STUDY CONDENSED STATE OF MATTER BY NEUTRON SCATTERING (FOJ1451); 36 MONTHS \$45,155

SUNDARARAJ, B I; PHYSIOLOGICAL AND BIOCHEMICAL STUDIES OF THE LOCAL SPECIES OF HETEROPNEUSTES (FOJ1379); 24 MONTHS \$31,706

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

YAUGHAN, JAMES H; CAVE-DWELLING BERBERS OF SOUTHERN TURKIA (FOJ1704); 12 MONTHS \$4,800

NEW YORK

SPINDEL, WILLIAM; VISITING AMERICAN SCIENTIST AT BORIS KIDRIC INSTITUTE (FOJ092 001); 12 MONTHS \$650

OKLAHOMA

OKLAHOMA STATE UNIVERSITY

HADY, M ABDEL; REMOTE SENSING APPLICATIONS TO AGRICULTURE AND REGIONAL DEVELOPMENT PROJECTS (FOJ1866); 12 MONTHS \$91,120

HADY, M ABDEL, AND MUSTAFA, HASAN; APPLICATIONS OF MODERN AIRBORNE REMOTE SENSING AND AERIAL RECONNAISSANCE TECHNIQUES TO AGRICULTURE AND REGIONAL DEVELOPMENT (FOJ1866 001); 12 MONTHS \$17,870

OREGON

UNIVERSITY OF OREGON - EUGENE

BOEKELHEIDE, VIRGIL; A COLLABORATIVE PROGRAM OF TEACHING AND RESEARCH AT THE POLYTECHNIC UNIVERSITY OF WROCLAW, WROCLAW, POLAND (FOJ2959 001); 12 MONTHS \$62,967

PENNSYLVANIA

LEHIGH UNIVERSITY

LEIDHEISER, HENRY JR; CHARACTERIZATION OF HIGH-AREA AND LOW-AREA NICKEL AND NICKEL OXIDE (H0J2171 X00); 12 MONTHS \$2,000

POLAND

INSTITUTE OF NUCLEAR RESEARCH

BRZOWSKI, W S; TO STUDY INVESTIGATION OF THE ELECTRODE EFFECTS AND DISCHARGE STRUCTURE IN SEEDED PLASMA FLOWS (FOJ1414); 24 MONTHS \$43,346

RESEARCH CENTER FOR MONOCRYSTALS

NIEMYSKI, TADEUSZ; CRYSTAL GROWTH OF HIGH TEMPERATURE AND HIGH PRESSURE MATERIALS (FOJ3380); 12 MONTHS \$52,166

SOUTH CAROLINA

UNIVERSITY OF SOUTH CAROLINA

CONOLLY, JOHN R, KANES, WILLIAM H, AND FERM, JOHN C; INITIAL RIFTING OF EUROPE AND AFRICA AND GROWTH AND FOLDING OF THE JURASSIC ATLAS SEA, MOROCCO (FOJ2210 X00); 36 MONTHS \$48,000

TUNISIA

UNIVERSITY OF TUNIS

BOUHDIRA, A. AND NOAH, HAROLD J; *THE BRAIN DRAIN- AN INTERNATIONAL COMPARATIVE STUDY* (F031845); 18 MONTHS \$21,320

YUGOSLAVIA

BORIS KIDRICH INSTITUTE OF NUCLEAR SCIENCE

RIBNIKAR, SLOBODAN; *CARBON-13 EXCHANGE IN LIQUID-GAS SYSTEMS AT LOW TEMPERATURES* (F031981 001); 12 MONTHS \$4,000

RUVARAC, ALEKSANDAR, AND CLEARFIELD, ABRAHAM; *THERMODYNAMICS AND KINETICS OF ION EXCHANGE PROCESSES ON ORGANIC ION EXCHANGERS* (F032040); 24 MONTHS \$39,996

JOZEF STEFAN NUCLEAR INSTITUTE

LEBEZ, DRAGO, AND RUPLEY, JOHN; *STUDIES ON TISSUE PROTEINASES* (F031380); 36 MONTHS \$78,701

M PUPIN INST. AUTOMATION & TELECOMMUNICATIONS

VUKOBRAČOVIĆ, MIOMIR, AND GAVRILOVIĆ, MOMČILO; *LEGGED LOCOMOTION IN ANIMALS AND MACHINES* (F031944); 12 MONTHS \$35,000

RUDJER BOSKOVIĆ INSTITUTE

PRAVDIĆ, VELIMIR; *APPLICATION OF VARIOUS TECHNIQUES OF HIGH-AREA AND LOW-AREA NICKEL AND NICKEL OXIDE* (F031350); 26 MONTHS \$74,400

KVEDER, SERGIJE, AND GILMARTIN, MALVERN; *THE PRIMARY PRODUCTION OF THE NORTHERN ADRIATIC SEA* (F031947 X00); 18 MONTHS \$90,052

UNIVERSITY OF LJUBLJANA

KRANJC, FRANCE; *THE QUALITY OF ELECTRICAL ENERGY* (F031056); 14 MONTHS \$325,000

KUSCER, IVAN, AND SHEN, S F; *THEORETICAL STUDY OF GAS-SURFACE INTERACTION* (F032288); 24 MONTHS \$15,000

UNIVERSITY OF SARAJEVO

MAOAZINOVIĆ, VOJISLAV, AND SMITH, JAMES J; *MECHANISM OF IR-REVERSIBLE CHANGES IN HEMORRHAGIC SHOCK* (F031886); 24 MONTHS \$70,870

YUGOSLAV ACADEMY OF SCIENCES AND ARTS

KARSULIN, M; *PROBLEMS IN ELECTROCHEMICAL AND CHEMICAL DEPOSITION AND DISSOLUTION OF METALS* (F031057); 12 MONTHS \$208,000

YUGOSLAV COMMITTEE FOR ELECTRONIC & AUTOMATION

TOMOVIĆ, RAJKO; *INTERNATIONAL WORKSHOP SERIES ON BIOMEDICAL ENGINEERING* (F031820); 12 MONTHS \$50,000

SPECIAL FOREIGN CURRENCY-TRAVEL SUPPORT

ALABAMA

ABRAMOVITCH, RUDOLPH A; *TRAVEL TO DISCUSS COOPERATIVE PROJECT WITH SCIENTISTS IN POLAND* (F033800); 6 MONTHS \$1,260

COOPER, MAX D; *TRAVEL TO ATTEND- FOURTH INTERNATIONAL CONFERENCE ON LYMPHATIC TISSUE AND GERMINAL CENTERS IN IMMUNE REACTIONS, DUBROVNIK, YUGOSLAVIA, JUNE 28-30, 1972* (F033597); 6 MONTHS \$875

ARIZONA

HADLEY, NEIL F; *TRAVEL SUPPORT TO ATTEND- SYMPOSIUM ON PHYSIOLOGICAL ECOLOGY OF PLANTS AND ANIMALS IN EXTREME ENVIRONMENTS, DUBROVNIK, YUGOSLAVIA, MARCH 20-30, 1972* (F032228); 6 MONTHS \$760

BULGARIA

NONE; OTHER PROGRAM AWARDS (02AWDS); \$46

CALIFORNIA

CHARWAT, ANDREW F; *TO ATTEND- THE TENTH BIENNIAL FLUID DYNAMICS SYMPOSIUM, WARSAW, POLAND, SEPTEMBER 6-12, 1971* (F030761); 6 MONTHS \$903

ROBERSON, ROBERT E; *TO ATTEND- THE FOURTH IFAC SYMPOSIUM ON AUTOMATIC CONTROL IN SPACE, DUBROVNIK, YUGOSLAVIA, SEPTEMBER 6-10, 1971* (F030790); 6 MONTHS \$750

GILMARTIN, MALVERN; *TO ATTEND- SIXTH EUROPEAN SYMPOSIUM ON MARINE BIOLOGY, ROVINJ, YUGOSLAVIA, SEPTEMBER 27 - OCTOBER 2, 1971* (F030856); 6 MONTHS \$1,180

EL-SUM, HUSSEIN M A; *TRAVEL SUPPORT TO EGYPT TO DEVELOP COOPERATIVE PROJECTS IN ACOUSTICAL HOLOGRAPHY AND RELATED SUBJECTS* (F032219); 6 MONTHS \$1,060

WEIGLE, WILLIAM O; *TRAVEL TO ATTEND- FOURTH INTERNATIONAL CONFERENCE ON LYMPHATIC TISSUE AND GERMINAL CENTERS IN IMMUNE REACTIONS DUBROVNIK, YUGOSLAVIA, JUNE 28-30, 1972* (F033596); 6 MONTHS \$1,086

AXFORD, WILLIAM I; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN POLISH CURRENCY) TO ATTEND- SEVENTEENTH GENERAL ASSEMBLY OF INTL. UNION OF RADIO SCIENCE, WARSAW, POLAND AUGUST 18-29, 1972* (F034933); 6 MONTHS \$850

FEJER, JULES A; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN POLISH CURRENCY) TO ATTEND- THE SEVENTEENTH GENERAL ASSEMBLY OF THE INTL. UNION OF RADIO SCIENCE IN WARSAW, POLAND AUGUST 18-29, 1972* (F034940); 6 MONTHS \$300

COHEN, MARSHALL H; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN POLISH CURRENCY) TO ATTEND- THE SEVENTEENTH GENERAL ASSEMBLY OF THE INTL. UNION OF RADIO SCIENCE IN WARSAW, POLAND AUGUST 18-29, 1972* (F034941); 6 MONTHS \$709

COHEN, MARVIN L; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN POLISH CURRENCY) TO ATTEND- ELEVENTH INTERNATIONAL CONFERENCE ON THE PHYSICS OF SEMICONDUCTORS, WARSAW, POLAND, JULY 25-29, 1972* (F034418); 6 MONTHS \$1,062

COLORADO

CLAMAN, HENRY N; *TRAVEL TO ATTEND- FOURTH INTERNATIONAL CONFERENCE ON LYMPHATIC TISSUE AND GERMINAL CENTERS IN IMMUNE REACTIONS, DUBROVNIK, YUGOSLAVIA, JUNE 28-30, 1972* (F033598); 6 MONTHS \$549

CONNECTICUT

PHILLIPS, ARIS; *TRAVEL TO ATTEND- SYMPOSIUM ON FOUNDATIONS OF PLASTICITY, WARSAW, POLAND, AUGUST 29-SEPTEMBER 2, 1972* (F033789); 6 MONTHS \$654

WEIRE, DENIS L; *SPECIAL FOREIGN CURRENCY AWARD (IN POLISH CURRENCY) TO ATTEND- THE ELEVENTH INTL. CONFERENCE ON THE PHYSICS OF SEMICONDUCTORS, WARSAW, POLAND, JULY 25-29, 1972* (F034995); 6 MONTHS \$567

DISTRICT OF COLUMBIA

ROBERTS, A HOOD; *TRAVEL TO DEVELOP COOPERATIVE PROJECTS WITH SCIENTIFIC INSTITUTIONS IN POLAND* (F032543); 6 MONTHS \$996

WOYNA, ADAM G; *TRAVEL TO DEVELOP COOPERATIVE PROJECTS WITH SCIENTIFIC INSTITUTIONS IN POLAND* (F032544); 6 MONTHS \$996

HAWAII

SITARAM, K S; *TRAVEL TO DEVELOP COOPERATIVE PROJECTS WITH SCIENTISTS IN INDIA* (F033582); 6 MONTHS \$1,508

ILLINOIS

CHILDRESS, DUDLEY S; *TRAVEL TO ATTEND- FOURTH INTERNATIONAL SYMPOSIUM ON EXTERNAL CONTROL OF HUMAN EXTREMITIES, DUBROVNIK, YUGOSLAVIA, AUGUST 28 - SEPTEMBER 2, 1972* (F033599); 6 MONTHS \$791

CARLSON, LAWRENCE E; *TRAVEL TO ATTEND- FOURTH INTERNATIONAL SYMPOSIUM ON EXTERNAL CONTROL OF HUMAN EXTREMITIES, DUBROVNIK, YUGOSLAVIA, AUGUST 28 - SEPTEMBER 2, 1972* (F033600); 6 MONTHS \$796

JORDAN, E C; *SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN POLISH CURRENCY) TO ATTEND- THE SEVENTEENTH GENERAL ASSEMBLY OF THE INTL. UNION OF RADIO SCIENCE IN WARSAW, POLAND AUGUST 18-29, 1972* (F034934); 6 MONTHS \$690

INDIA

NONE; OTHER PROGRAM AWARDS (02AWDS); \$4,412

INDIANA

HENTZ, ROBERT R; *TO DEVELOP A PROJECT FOR RESEARCH COLLABORATION, BELGRADE, YUGOSLAVIA, AUGUST 28, 1971 THROUGH SEPTEMBER 6, 1971* (F030928); 6 MONTHS \$818

GABRIEL, ASTRIK L; *TRAVEL TO POLAND TO NEGOTIATE THE PERMISSION OF MICROFILMING MANUSCRIPTS IN POLISH LIBRARIES IN CRACOW, WROCLAW AND WARSAW, JUNE 1972* (F033601); 6 MONTHS \$1,271

IOWA

LONNGREN, KARL E; *TRAVEL TO ATTEND- SIXTH YUGOSLAV SYMPOSIUM AND SUMMER SCHOOL ON THE PHYSICS OF IONIZED GASES, SPLIT, YUGOSLAVIA, JULY 16-22, 1972* (F033186); 6 MONTHS \$675

LOUISIANA

LOUISIANA STATE UNIVERSITY, NEW ORLEANS

GUILBAULT, GEORGE G; *DEVELOPMENTAL VISIT TO INDIA, EGYPT AND YUGOSLAVIA* (F031880); 3 MONTHS \$1,500

MARYLAND

NEWCOMB, ROBERT W; *TRAVEL SUPPORT TO DISCUSS COOPERATIVE RESEARCH PROJECT WITH SCIENTISTS IN POLAND* (F033866); 6 MONTHS \$1,210

DECLARIS, NICHOLAS; TRAVEL SUPPORT TO DISCUSS COOPERATIVE RESEARCH PROJECT WITH SCIENTISTS IN POLAND (FOJ2897); 6 MONTHS \$1,004

KATZ, ISADORE; ***SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN POLISH CURRENCY) TO ATTEND SEVENTEENTH GENERAL ASSEMBLY OF INTL. UNION OF RADIO SCIENCE, WARSAW, POLAND AUGUST 18-29, 1972 (FOJ4336); 6 MONTHS \$791

MASSACHUSETTS

SCHELL, I I; TO DEVELOP COOPERATIVE RESEARCH PROJECT WITH INDIA METEOROLOGICAL DEPARTMENT IN NEW DELHI, INDIA (FOJ1881); 6 MONTHS \$1,836

WILSON, DUNCAN M; TRAVEL TO VISIT ZEZELZ INSTITUTE, BELGRADE, YUGOSLAVIA, APRIL 17 - 22, 1972 (FOJ3959); 6 MONTHS \$735

EVANS, J V; ***SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN POLISH CURRENCY) TO ATTEND SEVENTEENTH GENERAL ASSEMBLY OF THE INTL. UNION OF RADIO SCIENCE IN WARSAW, POLAND AUGUST 18-29, 1972 (FOJ4333); 6 MONTHS \$744

BOSTON UNIVERSITY

VALIELA, IVAN; TO ATTEND CONFERENCE ON PHYSIOLOGICAL ECOLOGY OF PLANTS AND ANIMALS IN EXTREME ENVIRONMENTS, DUBROVNIK, YUGOSLAVIA, MARCH 20-24, 1972 (FOJ2892); 6 MONTHS \$604

MICHIGAN

MCNABB, CLARENCE D JR; TRAVEL SUPPORT TO ATTEND THE SYMPOSIUM PHYSIOLOGICAL ECOLOGY PLANTS AND ANIMALS IN EXTREME ENVIRONMENTS, DUBROVNIK, YUGOSLAVIA, MARCH 24-30, 1972 (FOJ2827); 6 MONTHS \$695

MICHIGAN STATE UNIVERSITY

BANDURSKI, ROBERT S; TO PRESENT LECTURES TO POLISH SCIENTIFIC CENTERS IN WARSAW, POZAN, WROCLAW, AND CRACOW MARCH-APRIL, 1972 (FOJ2106); 6 MONTHS \$586

MINNESOTA

HODGE, PHILIP G JR; TRAVEL SUPPORT TO ATTEND SYMPOSIUM ON FOUNDATIONS OF PLASTICITY, WARSAW, POLAND, AUGUST 30-SEPTEMBER 2, 1972 (FOJ2289); 6 MONTHS \$740

COLLINS, ROBERT J; ***SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN POLISH CURRENCY) TO ATTEND SEVENTEENTH GENERAL ASSEMBLY OF THE INTL. UNION OF RADIO SCIENCE, WARSAW, POLAND AUGUST 18-29, 1972 (FOJ4337); 6 MONTHS \$945

MOROCCO

NONE; OTHER PROGRAM AWARDS (01AWDS); \$1,745

NEW HAMPSHIRE

MORGAN, MILLETT G; ***SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN POLISH CURRENCY) TO ATTEND THE SEVENTEENTH GENERAL ASSEMBLY OF THE INTL. UNION OF RADIO SCIENCE, WARSAW, POLAND AUGUST 18-29, 1972 (FOJ4339); 6 MONTHS \$793

NEW JERSEY

TEMMER, GEORGES M; TRAVEL TO LECTURE AT POLISH SUMMER SCHOOL IN NUCLEAR PHYSICS, RUDZISKA, POLAND, AUGUST 21-SEPTEMBER 2, 1972 (FOJ3593); 6 MONTHS \$372

HOFFMAN, JOHN S; TRAVEL TO ATTEND THE THIRD INTERNATIONAL COURSE ON GERONTOLOGY, 'LEISURE AND THE THIRD AGE,' DUBROVNIK, YUGOSLAVIA, MAY 15-19, 1972 (FOJ3603); 6 MONTHS \$650

FAIRBROTHERS, DAVID E; ***TRAVEL TO PRESENT A SERIES OF LECTURES ON CHEMOSYSTEMATICS TO POLISH SCIENTISTS - POZAN, POLAND JUNE 22 - JULY 2, 1972 (FOJ1263); 6 MONTHS \$590

NEW MEXICO

NIX, JAMES R; TRAVEL SUPPORT TO ATTEND THE INTERNATIONAL SUMMER SCHOOL IN NUCLEAR PHYSICS, MASURIAN DISTRICT, POLAND, AUGUST 21-SEPTEMBER 2, 1972 (FOJ2966); 6 MONTHS \$972

NEW YORK

GHAUSI, MOHAMMED S; TRAVEL SUPPORT TO ATTEND THE SECOND INTERNATIONAL SYMPOSIUM ON NETWORK THEORY, HERCEG-NOVI, YUGOSLAVIA, JULY 3-8, 1972 (FOJ2893); 12 MONTHS \$525

GREGOR, HARRY P; TRAVEL SUPPORT TO DELIVER PAPER AT CONFERENCE ON CHEMISTRY OF SOLID LIQUID INTERFACES ROVINJ, YUGOSLAVIA JUNE 27-JULY 5, 1972 (FOJ3201); 6 MONTHS \$380

WANG, JIUNN-MING; TRAVEL TO ATTEND THIRD INTERNATIONAL COLLOQUIUM ON MULTIPARTICLE REACTIONS, ZAKOPANE, POLAND, JUNE 20-24, 1972 (FOJ3602); 6 MONTHS \$654

SHINOZUKA, MASANOBU; TRAVEL TO ATTEND CONFERENCE ON STOCHASTIC METHODS IN STRUCTURAL MECHANICS, JABLONNA, POLAND, JUNE 5-15, 1972 (FOJ3601); 6 MONTHS \$650

NORTH CAROLINA

BOOKHOUT, CAZLYN G; VI EUROPEAN SYMPOSIUM IN MARINE BIOLOGY, BEING HELD IN ROVINJ, YUGOSLAVIA, SEPTEMBER 27, 1971 - OCTOBER 2, 1971 (FOJ1194); 6 MONTHS \$606

PAKISTAN

NONE; OTHER PROGRAM AWARDS (06AWDS); \$2,383

PENNSYLVANIA

BROZEK, JOSEF; TO ATTEND THE FOURTH CONGRESS OF THE YUGOSLAV PSYCHOLOGICAL ASSOCIATION, BLED, SLOVENIA, YUGOSLAVIA, OCTOBER 2-9, 1971 (FOJ0727); 6 MONTHS \$710

RIDGE, JOHN D; TO CONTINUE WORK IN POLAND ON THE GENESIS OF THE LEAD-ZINC DEPOSITS OF THE KRACOW-UPPER SILESIA REGION DURING THE SPRING OF 1972 (FOJ0430); 6 MONTHS \$762

FITE, WADE L; TRAVEL TO ATTEND SIXTH SUMMER SCHOOL ON THE PHYSICS OF IONIZED GASES, SPLIT, YUGOSLAVIA, JULY 16-21, 1972 (FOJ3202); 6 MONTHS \$633

FUNKHOUSER, G RAY; TRAVEL TO DISCUSS COOPERATIVE PROJECT WITH SCIENTISTS IN YUGOSLAVIA (FOJ1802); 6 MONTHS \$890

BAUM, RAINER C; TRAVEL SUPPORT TO ATTEND INTERNATIONAL SOCIOLOGICAL CONFERENCE ON MODERNIZATION, WARSAW, POLAND, JUNE 11-18, 1972 (FOJ3604); 6 MONTHS \$817

SUDA, ZDENEK L; TRAVEL SUPPORT TO ATTEND INTERNATIONAL SOCIOLOGICAL CONFERENCE ON MODERNIZATION, WARSAW, POLAND, JUNE 11-18, 1972 (FOJ3607); 6 MONTHS \$817

WILLIS, YOLANDA A; TRAVEL SUPPORT TO ATTEND INTERNATIONAL SOCIOLOGICAL CONFERENCE ON MODERNIZATION, WARSAW, POLAND, JUNE 11-18, 1972 (FOJ3608); 6 MONTHS \$817

MALENBAUM, WILFRED; ***SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN INDIAN CURRENCY) TO DEVELOP COOPERATIVE PROJECTS WITH SCIENTISTS IN INDIA (FOJ4205); 6 MONTHS \$1,306

POLAND

NONE; OTHER PROGRAM AWARDS (12AWDS); \$2,348

RHODE ISLAND

LOPERSKI, JOSEPH J; ***SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN POLISH CURRENCY) TO ATTEND ELEVENTH INTERNATIONAL CONFERENCE ON THE PHYSICS OF SEMICONDUCTORS, WARSAW, POLAND, JULY 25-29, 1972 (FOJ4350); 6 MONTHS \$691

TENNESSEE

LARSEN, JOHN W; TRAVEL SUPPORT TO CONSULT WITH MRS. M.E. MAKSIĆ ABOUT HER THESIS AND SIT AS AN EXAMINER FOR HER FINAL ORAL EXAMINATION, ZAGREB, YUGOSLAVIA, SEPTEMBER 1972 (FOJ3238); 6 MONTHS \$707

HANNA, M G JR; TRAVEL TO ATTEND FOURTH INTERNATIONAL CONFERENCE ON LYMPHATIC TISSUE AND GERMINAL CENTERS IN IMMUNE REACTIONS, DUBROVNIK, YUGOSLAVIA, JUNE 26-30, 1972 (FOJ3591); 6 MONTHS \$832

CONGDON, CHARLES C; ***TRAVEL TO ATTEND FOURTH INTERNATIONAL CONFERENCE ON LYMPHATIC TISSUE AND GERMINAL CENTERS IN IMMUNE REACTIONS, DUBROVNIK, YUGOSLAVIA, JUNE 26-30, 1972 (FOJ3593); 6 MONTHS \$610

TEXAS

WILLIAMSON, WALTON E JR; TO ATTEND THE FOURTH IFAC SYMPOSIUM ON AUTOMATIC CONTROL IN SPACE, DUBROVNIK, YUGOSLAVIA, SEPTEMBER 6-10, 1971 (FOJ0729); 6 MONTHS \$886

FREEMAN, RONALD H; TRAVEL TO LJUBLJANA, YUGOSLAVIA, TO PERFORM RESEARCH AT JOZEF STEFAN INSTITUTE FOR A YEAR ON A POST-DOCTORATE RESEARCH GRANT, SEPTEMBER 1972 - SEPTEMBER 1973 (FOJ3605); 12 MONTHS \$2,021

JOHNSON, FRANCIS S; ***SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN POLISH CURRENCY) TO ATTEND THE SEVENTEENTH GENERAL ASSEMBLY OF INTERNATIONAL UNION OF RADIO SCIENCE, WARSAW, POLAND AUGUST 18-29 1972 (FOJ4334); 6 MONTHS \$984

STRAITON, ARCHIE W; ***SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN POLISH CURRENCY) TO ATTEND THE SEVENTEENTH GENERAL ASSEMBLY OF THE INTL. UNION OF RADIO SCIENCE, WARSAW, POLAND AUGUST 18-29, 1972 (FOJ4338); 6 MONTHS \$754

TUNISIA

NONE; OTHER PROGRAM AWARDS (05AWDS); \$2,288

UNITED ARAB REPUBLIC

NONE; OTHER PROGRAM AWARDS (06AWDS); \$4,958

VIRGINIA

MELOY, THOMAS P; ORGANIZATION OF THE CONFERENCE ON BEHAVIOR OF PARTICULATE SYSTEMS TO BE HELD IN POLAND DURING 1972 (FOJ0945); 6 MONTHS \$490

INTERNATIONAL COOPERATIVE SCIENTIFIC ACTIVITIES

171/172

HEATH, ALAN G; TRAVEL SUPPORT TO ATTEND SYMPOSIUM ON PHYSIOLOGICAL ECOLOGY OF PLANTS AND ANIMALS IN EXTREME ENVIRONMENTS, DUBROVNIK, YUGOSLAVIA, MARCH 16-30, 1972 (FOJ21891); 6 MONTHS \$483

UNIVERSITY OF VIRGINIA

CHEN, CHARLES S; TO SERVE AS A TECHNICAL CONSULTANT TO THE RUDER BOSKOVIC INSTITUTE IN DESIGNING AND DEVELOPING A MACH-ZEHNDER INTERFEROMETER, ZAGREB, CROATIA, YUGOSLAVIA, JULY 1972 (FOJ2168); 6 MONTHS \$1,069

WEST VIRGINIA

KOTB, A K; ***SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN EGYPTIAN AND TUNISIAN CURRENCY) TO DEVELOP COOPERATIVE PROJECTS WITH SCIENTISTS IN EGYPT AND TUNISIA (FOJ2149); 6 MONTHS \$1,340

WISCONSIN

MINNICH, JOHN E; TRAVEL SUPPORT TO ATTEND SYMPOSIUM ON PHYSIOLOGICAL ECOLOGY OF PLANTS AND ANIMALS IN EXTREME

ENVIRONMENTS, DUBROVNIK, YUGOSLAVIA, MARCH 16-30, 1972 (FOJ21890); 6 MONTHS \$690

VERMA, MANINDRA K; TO DEVELOP AND DISCUSS COOPERATIVE PROJECTS WITH INDIAN SCIENTISTS (FOJ2091); 6 MONTHS \$1,718

PELLA, MILTON O; TRAVEL TO DEVELOP A COOPERATIVE PROJECT WITH AIN SHAMS UNIVERSITY (FOJ2201); 6 MONTHS \$1,400

YUGOSLAVIA

KRIEBEL, HOWARD B; ***SPECIAL FOREIGN CURRENCY TRAVEL AWARD (IN INDIAN RUPEES) TO DISCUSS AND DEVELOP COOPERATIVE PROJECT WITH SCIENTISTS IN LUCKNOW, INDIA JUNE 21-JULY 1, 1972 (FOJ2192); 6 MONTHS \$983

NONE; OTHER PROGRAM AWARDS (22AWDS); \$11,227

INTERNATIONAL TRAVEL PROGRAM

WISCONSIN

BARRY, MERTON R; TO ATTEND THE PLANNING MEETING OF THE PERMANENT COMMITTEE ON ENGINEERING EDUCATION OF UPADI, KINGSTON, JAMAICA, SEPTEMBER 18-21, 1971 (FOJ21848); 6 MONTHS \$260

SCIENCE INFORMATION SERVICES

SYSTEMS DEVELOPMENT AND IMPROVEMENT

INFORMATION SYSTEMS

DISTRICT OF COLUMBIA

AMERICAN POLITICAL SCIENCE ASSOCIATION
KIRKPATRICK, EYRON M; *DEVELOPMENT OF A THESAURUS FOR POLITICAL SCIENCE (C788000)*; 12 MONTHS \$115,985

AMERICAN PSYCHOLOGICAL ASSOCIATION
LITTLE, KENNETH B; *DEVELOPMENT OF A THESAURUS OF PSYCHOLOGICAL TERMS (C739000)*; 6 MONTHS \$78,220

GEORGE WASHINGTON UNIVERSITY
SHILLING, CHARLES W; *PLANNING AND DEVELOPMENT OF PROGRAMS FOR THE COMMITTEE ON SCIENTIFIC AND TECHNICAL INFORMATION (C743000)*; 10 MONTHS \$58,413

SMITHSONIAN INSTITUTION
SHETLER, STANWYN O; *FLORA NORTH AMERICA (FNA) PROGRAM (C720000)*; 7 MONTHS \$69,153

MARYLAND

JOHNS HOPKINS UNIVERSITY
GREENBERGER, MARTIN; *SUPPORT OF REVIEW OF THE COMMITTEE ON SCIENTIFIC AND TECHNICAL INFORMATION (COSATI) (C781000)*; 6 MONTHS \$13,900

NATIONAL BUREAU OF STANDARDS
DAVIS, RUTH M; *ASSESSMENT OF PRESENT STATUS OF AUTOMATED SCIENTIFIC AND TECHNICAL INFORMATION SYSTEMS (CA06800)*; 6 MONTHS \$54,900

DAVIS, RUTH M; *INTERAGENCY AGREEMENT FOR ASSESSMENT OF PRESENT STATUS OF AUTOMATED SCIENTIFIC AND TECHNICAL INFORMATION SYSTEMS (CA83000 001)*; 13 MONTHS \$141,000

NEW YORK

AMERICAN INSTITUTE OF PHYSICS
KOCH, H WILLIAM; *NATIONAL INFORMATION SYSTEM FOR PHYSICS-STAGE II DEVELOPMENT (N000884 002)*; 8 MONTHS \$382,517

PENNSYLVANIA

BIOLOGICAL ABSTRACTS
SMITH, J B; *A STUDY OF BIOSIS-CAS COMPATIBILITY OF BIBLIOGRAPHIC DESCRIPTIONS (C719000)*; 10 MONTHS \$9,100

TEXAS

EICHER, LAWRENCE D; *OTHER PROGRAM AWARDS (OIAWDS)*; 12 MONTHS \$22,160

SPECIAL PROJECTS

CALIFORNIA

STANFORD UNIVERSITY
PARKER, EDWIN B; *SPIRES 'STANFORD PHYSICS INFORMATION RETRIEVAL SYSTEM' (N000830 002)*; 12 MONTHS \$274,900

GEORGIA

UNIVERSITY OF GEORGIA
CARMON, JAMES L; *TO EXPAND THE UNIVERSITY OF GEORGIA INFORMATION CENTER (N000851 005)*; 18 MONTHS \$170,500

MINNESOTA

HAMLIN UNIVERSITY
KING, JACK B, AND MCDONOUGH, GEORGE E; *CONTINUATION OF INFORMATION SYSTEM DEVELOPMENT PROGRAM FOR HAMLIN UNIVERSITY LIBRARY (N000878 004)*; 17 MONTHS \$168,500

NEW YORK

COLUMBIA UNIVERSITY
FASANA, PAUL J, AND HAAS, WARREN J; *LIBRARY SYSTEMS DEVELOPMENT FOR A LARGE RESEARCH LIBRARY (N000481 002)*; 24 MONTHS \$175,600

OHIO

OHIO STATE UNIVERSITY
LAZORICK, GERALD J; *MECHANIZED INFORMATION CENTER (N087458 001)*; 12 MONTHS \$275,500

PENNSYLVANIA

LEHIGH UNIVERSITY
HILLMAN, DONALD J; *UNIVERSITY CENTERED INFORMATION SYSTEM-PROJECT LEADERMART (N000845 002)*; 10 MONTHS \$270,000
HILLMAN, DONALD J; *UNIVERSITY CENTERED INFORMATION SYSTEM-PROJECT LEADERMART (N000845 003)*; 6 MONTHS \$130,000

UNIVERSITY OF PITTSBURGH
KENT, ALLEN, DEBONS, ANTHONY, ROSSELL, GLENORA, AND HOWILL, EDMOND; *A CAMPUS-BASED INFORMATION SYSTEM (N097537 001)*; 12 MONTHS \$138,900

CHEMICAL INFORMATION

DISTRICT OF COLUMBIA

AMERICAN CHEMICAL SOCIETY
WALL, FREDERICK T; *CONTRACT FOR THE DEVELOPMENT OF COMPUTER-BASED INFORMATION HANDLING SYSTEMS FOR CHEMICAL ENGINEERING INFORMATION (C858000 003)*; 9 MONTHS \$1,878,300

WALL, FREDERICK T; *CONTRACT FOR THE DEVELOPMENT OF COMPUTER-BASED INFORMATION HANDLING SYSTEMS FOR CHEMICAL ENGINEERING INFORMATION (C858000 006)*; 2 MONTHS \$1,319,019

WALL, FREDERICK T; *CONTRACT FOR THE DEVELOPMENT OF COMPUTER-BASED INFORMATION HANDLING SYSTEMS FOR CHEMICAL ENGINEERING INFORMATION (C858000 007)*; 1 MONTHS \$237,940

JOHN I THOMPSON AND COMPANY

PIELMEIER, G R; *CONTRACT FOR THE PRODUCING OF EXPOSITORY INFORMATION ON THE DISCIPLINE-ORIENTED, COMPUTER-BASED CHEMICAL INFORMATION SYSTEM BEING DEVELOPED PRIMARILY BY THE CHEMICAL ABSTRACTS SERVICE OF THE AMERICAN CHEMICAL SOCIETY (C351000 005)*; 6 MONTHS \$4,000

PIELMEIER, G R; *CONTRACT FOR THE PRODUCING OF EXPOSITORY INFORMATION ON THE DISCIPLINE-ORIENTED, COMPUTER-BASED CHEMICAL INFORMATION SYSTEM BEING DEVELOPED PRIMARILY BY THE CHEMICAL ABSTRACTS SERVICE OF THE AMERICAN CHEMICAL SOCIETY (C351000 006)*; 4 MONTHS \$19,800

OHIO

AMERICAN CHEMICAL SOCIETY-CHEMICAL ABSTRACTS SERVICE
TATE, FRED A; *CONTRACT FOR DEVELOPMENT OF COMPUTER-MANAGED DATA BASE FOR THE FIELDS OF CHEMISTRY AND CHEMICAL ENGINEERING (C583000 006)*; 6 MONTHS \$412,400

INFORMATION SERVICES AND PUBLICATIONS

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (01AWDS); \$2,660

AUTOMATED SYSTEMS CORPORATION

MORRISON, HOWARD; TASK ORDER FOR CHANGES TO PL-440 ACTIVITIES SYSTEM (C884004); 1 MONTHS \$9,690

MORRISON, HOWARD H; TASK ORDER FOR CHANGES TO PL-440 ACTIVITIES SYSTEM NSF-C884, T.O. AM. (C884008 001); 1 MONTHS \$8,116

VIRGINIA

NONE; OTHER PROGRAM AWARDS (08AWDS); \$450

INFORMATION SERVICES

CALIFORNIA

UNIVERSITY OF CALIFORNIA, BERKELEY

GREGORY, JOSEPH T; PREPARATION OF THE BIBLIOGRAPHY OF FOSSIL VERTEBRATES (N000405 001); 12 MONTHS \$32,800

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY

RIEDEL, WILLIAM R; PREPARATION OF A SPECIES CATALOGUE OF POLYCYSTINE RADIOLARIA (N000687 002); 19 MONTHS \$75,200

BRINTON, EDWARD; SCIENTIFIC RESULTS OF THE NAGA EXPEDITION TO THE GULF OF THAILAND AND SOUTH CHINA SEA, 1949-1961 (N032370); 12 MONTHS \$17,700

COLORADO

UNIVERSITY OF COLORADO

SMITH, ALBERT; ATLAS OF ARID ENVIRONMENTS OF THE U.S. (N031824); 12 MONTHS \$10,700

ROGERS, DAVID J; PUBLICATION OF 'NORTH AMERICAN SPECIES OF 'MANIHOT' (N031826); 18 MONTHS \$5,000

IVES, J D, AND BLACKIE, KATHLEEN A; PUBLICATION OF 'ARCTIC AND ALPINE RESEARCH'; (N032927); 36 MONTHS \$31,000

DISTRICT OF COLUMBIA

AMERICAN GEOLOGICAL INSTITUTE

HOOVER, LINN; GEOLOGICAL REFERENCE FILE- OPERATION OF A COMPUTER-BASED BIBLIOGRAPHIC DATA BANK (N000687 003); \$57,500

HOOVER, LINN; GEOLOGICAL REFERENCE FILE- OPERATIONAL TESTING OF A COMPUTER-BASED BIBLIOGRAPHIC DATA BANK (N000687 004); 12 MONTHS \$420,000

AMERICAN GEOPHYSICAL UNION

SPILHAUS, A F JR; PUBLICATION OF THE ANTARCTIC RESEARCH SERIES (N000055 004*); 12 MONTHS \$15,000

AMERICAN PSYCHOLOGICAL ASSOCIATION

LITTLE, KENNETH B; 'PSYCHOLOGICAL ABSTRACTS' PRODUCTION SYSTEM (N000900 002); 12 MONTHS \$183,000

AMERICAN SOCIETY FOR CYBERNETICS

MURRAY, T H; JOURNAL OF CYBERNETICS (N031923); 12 MONTHS \$5,500

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

VAN OLPHEN, H; U.S. SUPPORT OF INTERNATIONAL COMMITTEE ON DATA FOR SCIENCE AND TECHNOLOGY OF THE INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS (C310124 004); 12 MONTHS \$25,700

CLIFFE, ROBERT A; PUBLICATION AND DISTRIBUTION OF THE PROCEEDINGS OF THE THIRTEENTH GENERAL CONGRESS OF THE INSTITUTE OF REFRIGERATION (C310205 001*); \$0

HAWAII

BERNICE P BISHOP MUSEUM

FORCE, ROLAND W; PUBLICATION OF TWO PACIFIC INSECTS MONOGRAPHS (N032848); 4 MONTHS \$5,400

UNIVERSITY OF HAWAII

HARDY, D ELMO, AND DELFINADO, MERCEDES D; A CATALOG OF THE DIPTERA OF THE ORIENTAL REGION (N032171); 24 MONTHS \$38,000

HARDY, D ELMO; PUBLICATION OF TWO MONOGRAPHS ON TEPHRITIDAE (N033037*); 12 MONTHS \$0

ILLINOIS

JOHN CRERAR LIBRARY

NOWAK, ILDIKO D; PARTIAL SUPPORT OF THE NATIONAL TRANSLATIONS CENTER (N031924); 12 MONTHS \$91,200

INDIANA

UNIVERSITY OF NOTRE DAME

CROVELLO, THEODORE J; AUTOMATED DATA FILE FOR GREENE HERBARIUM BOTANICAL COLLECTION (N000878 004); 18 MONTHS \$48,200

MARYLAND

NONE; OTHER PROGRAM AWARDS (01AWDS); \$168

MASSACHUSETTS

HARVARD UNIVERSITY

HOWELLS, WILLIAM W; PUBLICATION OF 'CRANIAL VARIATION IN MAN (N030831*); 12 MONTHS \$0

MICHIGAN

UNIVERSITY OF MICHIGAN

GANS, CARL; PREPARATION OF A 'BIOLOGY OF THE REPTILIA' (N030358); 28 MONTHS \$36,000

MISSISSIPPI

UNIVERSITY OF MISSISSIPPI

HULL, FRANK M SR; PUBLICATION OF 'BEF FLIES OF THE WORLD' (N031171); 12 MONTHS \$51,400

NETHERLANDS

INTERNATIONAL ASSOCIATION FOR PLANT TAXONOMY

COWAN, RICHARD S; CONVERSION OF INDEX NOMINUM GENERALICORUM DATA INTO MACHINE READABLE FORM (N000886 002); 12 MONTHS \$74,500

NEW YORK

AMERICAN INSTITUTE OF PHYSICS

KOCH, H WILLIAM; CURRENT PHYSICS INFORMATION SYSTEM- OPERATIONAL TESTING (N000883 002); 12 MONTHS \$483,000

AMERICAN MUSEUM OF NATURAL HISTORY

ATL, JAMES N; BIBLIOGRAPHIC SERVICE IN ICHTHYOLOGY (N000658 004); 12 MONTHS \$72,200

DOWLING, HERNDON G; BIBLIOGRAPHIC SERVICE IN HERPETOLOGY (N000707 003); 12 MONTHS \$83,800

LESTER, HENRY M; RESTORATION OF DECAYING FILMS (N000903 001); 12 MONTHS \$12,700

CORNELL UNIVERSITY

PEAKALL, DAVID B; ECOLOGICAL DATA BASE FOR ORNITHOLOGICAL RESEARCH (N000859 002); 18 MONTHS \$3,600

QUEENS COLLEGE

RABEN, JOSEPH; THE PUBLICATION OF COMPUTERS AND THE HUMANITIES, A SCHOLARLY JOURNAL (N000781 001); 12 MONTHS \$27,850

SOCIAL SCIENCE RESEARCH COUNCIL

WOOD, BRYCE; BIBLIOGRAPHY ON MODERN CHINESE SOCIETY (N006513 002); 28 MONTHS \$35,000

NORTH CAROLINA

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

ORNE, JERROLD; AMERICAN NATIONAL STANDARDS INSTITUTE, COMMITTEE Z-39- LIBRARIES AND DOCUMENTATION (N000473 003); 36 MONTHS \$35,730

WRIGHTSVILLE MARINE BIOMEDICAL LABORATORY

BRAUER, RALPH W; PUBLICATION OF THE PROCEEDINGS OF THE CONFERENCE ON HIGH PRESSURE AQUARIUM SYSTEMS (N030411); 12 MONTHS \$4,900

OKLAHOMA

AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

PITCHER, MAX G; PUBLICATION OF THE SECOND INTERNATIONAL SYMPOSIUM ON ARCTIC GEOLOGY PROCEEDINGS (N032926); 12 MONTHS \$25,000

OREGON

UNIVERSITY OF OREGON - EUGENE

ANDREWS, GEORGE F; PUBLICATION OF 'MAYA CITIES - PLACE MAKING AND URBANIZATION' (N032372); 18 MONTHS \$8,600

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY

DANIELS, GILBERT S; PREPARATION OF BIBLIOGRAPHIA HUN-TIANA (N000880 002); 12 MONTHS \$146,300

PENNSYLVANIA STATE UNIVERSITY

TRVERSE, ALFRED; RECORDING OF TAXONOMIC, STRATIGRAPHIC, MORPHOLOGICAL AND BIBLIOGRAPHICAL DATA FOR PALYNOLOGY (N000788 003); 6 MONTHS \$1,300

UNIVERSITY OF PENNSYLVANIA

AJZENBERG-SELOVE, FAY; COMPILATION OF INFORMATION ON THE ENERGY LEVELS OF THE LIGHT NUCLEI (N000818); 12 MONTHS \$38,700

RHODE ISLAND

AMERICAN MATHEMATICAL SOCIETY

WALKER, GORDON L; MATHEMATICAL OFFPRINT SERVICE (N000837 001); 3 MONTHS \$30,000

WALKER, GORDON L; MATHEMATICAL TITLE SERVICE AND INDEX OF MATHEMATICAL PAPERS (N000837 003); 24 MONTHS \$102,800

TENNESSEE

OAK RIDGE NATIONAL LABORATORY

LIVERMAN, JAMES L; COMPILATION OF AN ENVIRONMENTAL TERMINOLOGY INDEX (AG00373); 6 MONTHS \$60,000

TEXAS

UNIV OF TEXAS AT AUSTIN

DUGGAN, MICHAEL A; LEGAL ASPECTS OF INFORMATION SYSTEM AND DATA BASES (N018893 001); \$5,000

WARDLAW, FRANK H; PUBLICATION OF URBANIZATION AT TEOHUACAN, MEXICO, VOLUME I (N031187*); 54 MONTHS \$0

WARDLAW, FRANK H; PUBLICATION OF 'SAN LORENZO-OLMEC MAN AND OLMEC LAND' (N031187*); 60 MONTHS \$0

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

SHENEFELT, ROY D; THE BRANCONIDAE SECTION OF THE HYMENOPTERORUM CATALOGUS (N031925); 42 MONTHS \$28,900

FOREIGN SCIENCE INFORMATION TRANSLATIONS (DOMESTIC)

DISTRICT OF COLUMBIA

AMERICAN FISHERIES SOCIETY

CLEPPER, HENRY; 1974 VOLUME OF 'HYDROBIOLOGICAL JOURNAL' (N000854 001); 12 MONTHS \$22,800

CLEPPER, HENRY; 1974 VOLUME OF 'PROBLEMS OF ICHTHYOLOGY' (N000855 001); 18 MONTHS \$32,200

AMERICAN GEOLOGICAL INSTITUTE

HOOVER, LINN; TRANSLATION, PUBLICATION AND DISTRIBUTION OF FOUR RUSSIAN SCIENTIFIC JOURNALS, 1972 VOLUMES (N000878 001); 12 MONTHS \$32,700

AMERICAN GEOPHYSICAL UNION

SPILHAUS, A F JR; TRANSLATION, PUBLICATION AND DISTRIBUTION OF FOUR RUSSIAN SCIENTIFIC JOURNALS, 1972 VOLUMES (N000880 001); 12 MONTHS \$43,100

MARYLAND

ENTOMOLOGICAL SOCIETY OF AMERICA

MURDOCH, WALLACE P; 1972 VOLUME OF ENTOMOLOGICAL REVIEW (N000858 001); 12 MONTHS \$9,700

FOREIGN SCIENCE INFORMATION TRANSLATIONS (SPECIAL FOREIGN CURRENCY)

INDIA

AMERIND PUBLISHING COMPANY LTD

PRIMLANI, MOHAN; CONTRACT FOR THE TRANSLATION, EDITING, PRINTING, BINDING, AND BULK SHIPMENT OF FOREIGN SCIENTIFIC LITERATURE IN OTHER COUNTRIES (C830000 001); \$100,000

PRIMLANI, MOHAN; PROCESS IN ENGLISH FOREIGN SCIENTIFIC AND TECHNOLOGICAL INFORMATION (C830000 002); \$17,000

INDIAN NATIONAL SCIENTIFIC DOCUMENTATION CTR

PARTHASARATHY, S; PROCESS IN ENGLISH FOREIGN SCIENTIFIC AND TECHNOLOGICAL INFORMATION (C166000 011); \$100,000

ISRAEL

ISRAEL PROGRAM FOR SCIENTIFIC TRANSLATIONS

RISCHIN, YITZAK; PROCESS IN ENGLISH FOREIGN SCIENTIFIC AND TECHNOLOGICAL INFORMATION (C503000 013); \$83,000

NEW YORK

FRANKLIN BOOK PROGRAMS INC

KYLE, JOHN H; SCIENTIFIC AND TECHNICAL INFORMATION PROCESSING AND TRANSLATIONS - UAR (C744000); 36 MONTHS \$100,000

PAKISTAN

SAAD, ISMAIL; PROCESS IN ENGLISH FOREIGN SCIENTIFIC AND TECHNOLOGICAL INFORMATION (C303000 010); \$50,000

POLAND

CENTRAL INST FOR SCIENTIFIC TECH & ECON INFO

BREDA, MIECZYSLAW; PROCESS IN ENGLISH FOREIGN SCIENTIFIC TECHNOLOGICAL INFORMATION (C301000 013); \$200,000

SYGITOWICZ, J; PROCESS IN ENGLISH FOREIGN SCIENTIFIC TECHNOLOGICAL INFORMATION (C301000 016); \$100,000

TUNISIA

AGENCE TUNISIENNE DE PUBLIC RELATIONS

AZZOUZ, AZZEDINE; PROCESS IN ENGLISH FOREIGN SCIENTIFIC TECHNOLOGICAL INFORMATION (C504000 013); \$25,000

AZZOUZ, AZZEDINE; PROCESS IN ENGLISH FOREIGN SCIENTIFIC TECHNOLOGICAL INFORMATION (C504000 014); \$75,000

YUGOSLAVIA

NOLIT PUBLISHING HOUSE

LAZAREVIC, SAVA; PROCESS IN ENGLISH FOREIGN SCIENTIFIC TECHNOLOGICAL INFORMATION (C302000 013); \$150,000

FOREIGN SCIENCE SERVICES AND PUBLICATIONS

DISTRICT OF COLUMBIA

CENTER FOR APPLIED LINGUISTICS

ROBERTS, A HOOD; SUPPORT OF THE LINGUISTICS COMMITTEE OF THE INTERNATIONAL FEDERATION FOR DOCUMENTATION (N018886 001); 12 MONTHS \$12,700

NATIONAL ACADEMY OF SCIENCES

ROWAN, EDMUND C; TASK ORDER FOR PREPARATION FOR U.S. PARTICIPATION IN THE UNISIST INTERGOVERNMENTAL CONFERENCE (C310810 001); 1 MONTHS \$1,600

COLEMAN, JOHN S; INTERNATIONAL COUNCIL OF SCIENTIFIC UNION ABSTRACTING BOARD (C310214); 12 MONTHS \$10,000

NATIONAL TECHNICAL INFORMATION SERVICE

KNOX, WILLIAM T; OPERATIONAL SUPPORT FOR THE NATIONAL SCIENCE FOUNDATION'S SPECIAL FOREIGN CURRENCY PROGRAM (CA33000 004); 12 MONTHS \$87,850

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

ROWAN, EDMUND C; SUPPORT OF THE U.S. NATIONAL COMMITTEE FOR THE INTERNATIONAL FEDERATION FOR DOCUMENTATION (FID) (C310047 013); 9 MONTHS \$42,540

MASSACHUSETTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LOCKE, WILLIAM N; STUDY INTO THE DISSEMINATION OF SCIENTIFIC AND TECHNICAL INFORMATION IN THE U.S.S.R. (N000144 004); 12 MONTHS \$16,055

SCIENCE INFORMATION RESEARCH

RESEARCH AND STUDIES

CALIFORNIA

UNIVERSITY OF CALIFORNIA, BERKELEY

MARON, M E; LOGICAL FOUNDATIONS OF INFORMATION RETRIEVAL (N032881); 24 MONTHS \$47,900

UNIVERSITY OF SOUTHERN CALIFORNIA

KAPRIELIAN, ZOHRAH A, AND CHRISTY, ROBERT F; AN ANALYSIS OF POTENTIAL BENEFITS THROUGH SHARING OF LIBRARY RESOURCES-CALTECH, UCLA, USC (N033010); 24 MONTHS \$126,500

COLORADO

UNIVERSITY OF DENVER-DENVER RESEARCH INSTITUTE

ROBBINS, MARTIN D; AN EXAMINATION OF THE EXTENT AND IMPACT OF NEWLY EMERGING SCIENTIFIC AND TECHNICAL INFORMATION SERVICES (N032880); 12 MONTHS \$58,900

CONNECTICUT

YALE UNIVERSITY

PRICE, DEREK J DE SOLLA; STATISTICAL STUDIES OF CITATION AND OTHER CHARACTERISTICS OF THE WORLD'S SCIENTIFIC LITERATURE (N000871 001); 22 MONTHS \$11,600

GEORGIA**GEORGIA INSTITUTE OF TECHNOLOGY**

SLAMECKA, VLADIMIR; *GEORGIA INSTITUTE OF TECHNOLOGY, SCIENCE INFORMATION RESEARCH CENTER (N000455 001)*; \$170,000

UNIVERSITY OF GEORGIA

WARE, GLENN O; *A SIMULATION STUDY OF AN INFORMATION DISSEMINATION CENTER NETWORK (N032111)*; 12 MONTHS \$97,900

ILLINOIS**IIT RESEARCH INSTITUTE**

WILLIAMS, MARTHA E, AND SCHIPMA, PETER B; *DESIGN AND SPECIFICATIONS FOR MANIPULATING LARGE DATA BASES (C734000)*; 12 MONTHS \$169,000

INDIANA**PURDUE UNIVERSITY**

TOULOUKIAN, Y S; *DEVELOPMENT OF A COMPUTERIZED SYSTEM OF CROSS-FILE SEARCH OF EXTENSIVE COMPLEX DATA BANKS ON NUMERICAL DATA OF PHYSICAL CONSTANTS (N032111)*; 24 MONTHS \$96,200

MARYLAND

GENERAL ELECTRIC COMPANY-INFORMATION SYSTEMS OFFICE
 ; *DESIGN OF A PROGRAM FOR GATHERING DATA ON THE UTILITY OF INDEXES (C412000 001)*; 12 MONTHS \$1,843
 ; *AN INVESTIGATION OF BASIC PROCESSES INVOLVED IN THE MANUAL INDEXING OF SCIENTIFIC DOCUMENTS (C422000 002)*; 12 MONTHS \$1,328

NEW YORK**SYRACUSE UNIVERSITY**

DOUGHERTY, RICHARD M; *AN INVESTIGATION OF CAMPUS LIBRARY ORGANIZATIONAL STRUCTURE (N032281)*; 12 MONTHS \$33,800

PENNSYLVANIA**DREXEL UNIVERSITY**

GRIFFITH, BELVER C; *SCIENTIFIC AND TECHNICAL PERIODICALS PUBLISHED BY PRIVATE INDUSTRY (N032182)*; 12 MONTHS \$71,700

LEHIGH UNIVERSITY

LEIBOWITZ, MICHAEL B; *THE APPLICABILITY OF LEADERMAN TEXT-PROCESSING TO THE U.S. PATENT OFFICE COMPUTER AIDED CLASSIFICATION PROJECT (N032800)*; 12 MONTHS \$14,970

SCIENCE EDUCATION SUPPORT

STUDENT DEVELOPMENT

PRE-COLLEGE LEVEL

ARIZONA

NORTHERN ARIZONA UNIVERSITY
SEAMAN, P DAVID; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007349); 10 MONTHS \$13,493

ARKANSAS

UNIVERSITY OF ARKANSAS
ANDERSON, RICHARD J; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007317); 18 MONTHS \$13,211

CALIFORNIA

CALIFORNIA STATE COLLEGE AT BAKERSFIELD
FANG, FABIAN T; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007398); 10 MONTHS \$10,367

CALIFORNIA STATE UNIVERSITY, HUMBOLDT
BUTLER, JOHN E; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007343); 10 MONTHS \$27,921

CALIFORNIA STATE UNIVERSITY, SAN DIEGO
DEATON, EDMUND I; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007321); 10 MONTHS \$19,658

SPANGLER, JOHN A; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007312); 10 MONTHS \$17,470

COMMITTEE FOR ADVANCED SCIENCE TRAINING
MCKEE, RALPH W; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007350); 10 MONTHS \$9,204

HARVEY MUDD COLLEGE
BELL, GRAYDON; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007353); 10 MONTHS \$15,971

SALK INSTITUTE FOR BIOLOGICAL STUDIES
HYMAN, ROBERT; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007310); 10 MONTHS \$2,200

STANFORD UNIVERSITY
COLEMAN, ERNEST; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007367); 10 MONTHS \$2,452

UNIVERSITY OF CALIFORNIA, BERKELEY
PORTIS, ALAN M; CENTER OF EXCELLENCE IN SCIENCE EDUCATION (W006812 001*); 14 MONTHS \$15,000

WOLF, FRANTISEK; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007385); 10 MONTHS \$16,247

UNIVERSITY OF SOUTHERN CALIFORNIA
MERZ, ROBERT C; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007343); 10 MONTHS \$15,062

UNIVERSITY OF CALIFORNIA, SAN DIEGO-SCRIPPS INSTITUTION OF OCEANOGRAPHY
CLICQUENNOI, ROBERT L; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007619); 8 MONTHS \$24,895

COLORADO

COLORADO SCHOOL OF MINES
BURNETT, JERROLD J; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007336); 10 MONTHS \$26,035

UNIVERSITY OF COLORADO
IVES, JACK D; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007374); 10 MONTHS \$9,999

CONNECTICUT

WESLEYAN UNIVERSITY
GAUTHIER, JOSEPH J; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007358); 10 MONTHS \$20,039

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (AWARDS); \$13,743
AMERICAN UNIVERSITY
SCHUBERT, LEO; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007314); 10 MONTHS \$11,167

EXOTECH SYSTEMS INC
EHRMAN, L; TASK ORDER FOR DATA PROCESSING AND TABULATION OF STUDENT PARTICIPANT DATA FOR 1970 AND 1971 SSTP AND SUPPLEMENTARY PROGRAMS (C433019); 5 MONTHS \$29,970

FEDERAL CITY COLLEGE
SAVITZ, MAXINE L; SCIENCE MOBILE LABORATORY PROJECT FOR DISTRICT OF COLUMBIA SCHOOLS AND COMMUNITY (W006818 001*); 18 MONTHS \$67,424

NATIONAL SCIENCE TEACHERS ASSOCIATION
KIZER, FRANKLIN D; SEVEN REGIONAL CONFERENCES ON SCIENCE EDUCATION IN THE ELEMENTARY AND SECONDARY SCHOOLS OF THE NATION (W006809*); 12 MONTHS \$1,100

FLORIDA

FLORIDA ATLANTIC UNIVERSITY
DELEON, M J; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007363); 10 MONTHS \$17,120

FLORIDA STATE UNIVERSITY
BARNES, LEHMAN W; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007444); 10 MONTHS \$18,286

GEORGIA

EMORY UNIVERSITY
NEFF, MARY F; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007344); 10 MONTHS \$10,470

FERNBANK SCIENCE CENTER
KNAPPENBERGER, PAUL H; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007614); 10 MONTHS \$9,856

GEORGIA STATE UNIVERSITY
SEARS JR, CURTIS T; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007350); 10 MONTHS \$11,989

MORRIS BROWN COLLEGE
PAYNE, W F; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007603); 10 MONTHS \$17,910

IDAHO

COLLEGE OF IDAHO
SCHATZ, BRUCE S; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007488); 10 MONTHS \$5,672

UNIVERSITY OF IDAHO
JOHNSTON, LAWRENCE H; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007347); 10 MONTHS \$22,892

ILLINOIS

ELMHURST COLLEGE
HOLLIDAY, T B; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007356); 10 MONTHS \$6,440

FIELD MUSEUM OF NATURAL HISTORY

SMITH, HARRIET M; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007551); 10 MONTHS \$9,138

NATIONAL MERIT SCHOLARSHIP CORPORATION

STALNAKER, JOHN M; CONTRACT FOR SELECTION/THE 137th PRESIDENTS AUSTRAL SCIENCE SCHOLARS (C601000 000); 12 MONTHS \$7,500

NORTHERN ILLINOIS UNIVERSITY

SPANGLER, CHARLES W; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007544); 10 MONTHS \$18,828

UNIVERSITY OF ILLINOIS AT URBANA

DOBROVOLNY, JERRY S; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007548); 10 MONTHS \$21,204

CHICAGO PARK DISTRICT-ADLER PLANETARIUM

HYNEK, J ALLEN; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007549); 18 MONTHS \$16,147

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

MCBURNEY, WENDELL F; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007547); 10 MONTHS \$34,184

PURDUE UNIVERSITY

ABERLE, ELTON D; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007549); 10 MONTHS \$28,450

IOWA

LUTHER COLLEGE

TJOSTEM, JOHN L; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007591); 10 MONTHS \$11,162

WARBURG COLLEGE

HERTEL, ELMER W; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007548); 10 MONTHS \$9,565

KANSAS

KANSAS STATE TEACHERS COLLEGE OF EMPORIA

CRAM, S WINSTON; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007505); 10 MONTHS \$12,954

KENTUCKY

ASBURY COLLEGE

RAY, J PAUL; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007571); 10 MONTHS \$27,625

CENTRE COLLEGE OF KENTUCKY

SAGAR, WILLIAM C; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007610); 10 MONTHS \$7,052

THOMAS MORE COLLEGE

MUELLER, MARY CASIMIRA; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007560); 10 MONTHS \$13,150

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

BENNETT, HARRY J; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007594); 10 MONTHS \$15,757

LOUISIANA TECH UNIVERSITY

CHRISTIAN, JAMES A; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007580); 10 MONTHS \$18,840

LOYOLA UNIVERSITY

CHRISTMAN, JOHN F; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007519); 10 MONTHS \$29,651

NORTHWESTERN STATE UNIVERSITY OF LOUISIANA

BURNS, THOMAS A; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007557); 10 MONTHS \$13,262

SOUTHERN UNIVERSITY

SPIKES, DOLORES R; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007574); 10 MONTHS \$17,352

LOUISIANA STATE UNIVERSITY, BATON ROUGE-AGRICULTURAL EXPERIMENT STATION

WELLS, DARTHON V; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007555); 10 MONTHS \$35,179

MAINE

JACKSON LABORATORY

WAYMOUTH, CHARITY; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007506); 10 MONTHS \$19,313

MARYLAND

NONE; OTHER PROGRAM AWARDS (0LAWDS); \$1,912

MASSACHUSETTS

HAMPSHIRE COLLEGE

KELLY, DAVID C; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007559); 10 MONTHS \$28,878

MICHIGAN

MICHIGAN STATE UNIVERSITY

PEEBLES, CHARLES R; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007549); 10 MONTHS \$28,087

MELTZ, DAVID; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007547); 10 MONTHS \$11,850

UNIVERSITY OF DETROIT

WEMPLE, JAMES; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007564); 10 MONTHS \$3,912

WAYNE STATE UNIVERSITY

SAPERSTEIN, ALVIN M; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007558); 10 MONTHS \$27,242

WESTERN MICHIGAN UNIVERSITY

KENT, NEIL D; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007564); 10 MONTHS \$35,784

MALLINSON, GEORGE G; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007570); 10 MONTHS \$25,478

MINNESOTA

ST OLAF COLLEGE

GERY, FRANK W; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007544); 10 MONTHS \$19,827

UNIVERSITY OF MINNESOTA

MORAN, JOHN P; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007608); 19 MONTHS \$24,960

UNIVERSITY OF MINNESOTA-MEDICAL SCHOOL

HALBERG, FRANZ; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007613); 18 MONTHS \$16,081

MISSISSIPPI

RUST COLLEGE

AHUJA, AVTAR S; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007603); 10 MONTHS \$21,123

MISSOURI

ACADEMY OF SCIENCE OF ST LOUIS

BRAZIER, DONN P; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007606); 21 MONTHS \$9,976

NEBRASKA

NEBRASKA WESLEYAN UNIVERSITY

LAURSEN, PAUL H; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007557); 10 MONTHS \$18,287

NEVADA

FORESTA INST FOR OCEAN & MOUNTAIN STUDIES

MILLER, RICHARD GORDON; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007584); 10 MONTHS \$18,542

NEW JERSEY

NEWARK COLLEGE OF ENGINEERING

DEUTSCHMAN, HAROLD; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007577); 10 MONTHS \$11,645

RIDER COLLEGE

SHEATS, JOHN E; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007512); 10 MONTHS \$11,115

RUTGERS UNIVERSITY

GREITZER, SAMUEL L; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007510); 10 MONTHS \$19,793

STEVENS INSTITUTE OF TECHNOLOGY

WHITE, MYRON E; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007582); 10 MONTHS \$26,165

NEW MEXICO

EASTERN NEW MEXICO UNIVERSITY

GENNARO, A L; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007553); 10 MONTHS \$12,890

NEW MEXICO STATE UNIVERSITY

LUCKY, GEORGE W; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007609); 18 MONTHS \$12,085

NEW YORK

BOYCE THOMPSON INST FOR PLANT RESEARCH INC
APP, ALVA A; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007306); 10 MONTHS \$7,861

CLARKSON COLLEGE OF TECHNOLOGY
PARTCH, RICHARD; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007337); 10 MONTHS \$2,838

COLUMBIA UNIVERSITY
SACHS, ALLAN M; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007379); 18 MONTHS \$38,000

CORNELL UNIVERSITY
RICHARDSON, ROBERT C; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W00366 001); \$300

RICHARDSON, ROBERT C; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007360); 10 MONTHS \$12,858

POLYTECHNIC INSTITUTE OF BROOKLYN
RABINS, MICHAEL; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007348); 10 MONTHS \$14,663

ZIEGLER, EDWARD N; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007373); 10 MONTHS \$17,863

STATE UNIVERSITY AT STONY BROOK
SROUSE, GENE D; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007314); 10 MONTHS \$2,866

WALDEMAR MEDICAL RESEARCH FOUNDATION
GROSS, LEO; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007311); 10 MONTHS \$20,358

HEALTH RESEARCH INC-ROSWELL PARK DIVISION
MIRAND, EDWIN A; STUDENT SCIENCE TRAINING PROGRAM (W001007 001*); \$954

MIRAND, EDWIN A; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007309); 10 MONTHS \$23,856

NORTH CAROLINA

BENNETT COLLEGE
SAYLES, J HENRY; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007601); 10 MONTHS \$26,400

EAST CAROLINA UNIVERSITY
PIGNANI, TULLIO J; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007317); 17 MONTHS \$10,369

WESTERN CAROLINA UNIVERSITY
DODSON, JOSEPH W; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007354); 10 MONTHS \$16,670

NORTH DAKOTA

NORTH DAKOTA STATE UNIVERSITY
GARVEY, ROY G; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007343); 10 MONTHS \$8,287

OHIO

CASE WESTERN RESERVE UNIVERSITY
LANDO, JEROME B; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007344); 10 MONTHS \$7,120

CENTRAL STATE UNIVERSITY
SCHLUETER, ALBERT W; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007374); 10 MONTHS \$11,206

NOTRE DAME COLLEGE
DECHANT, SR M JEANMARIE; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007345); 18 MONTHS \$15,636

OHIO STATE UNIVERSITY
YARRINGTON, PAUL T; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W006679 001); 11 MONTHS \$300

ROSS, ARNOLD E; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007340); 10 MONTHS \$41,196

SMITH, LESTER F; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007386); 10 MONTHS \$18,329

UNIVERSITY OF DAYTON
BOEHMAN, LOUIS I; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007397); 10 MONTHS \$10,161

XAVIER UNIVERSITY
TOEPPER, TERRENCE P; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007802); 10 MONTHS \$7,910

OKLAHOMA

UNIVERSITY OF OKLAHOMA
STEINBRINK, JOHN E; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007361); 10 MONTHS \$8,980

OREGON

OREGON MUSEUM OF SCIENCE AND INDUSTRY
WHITNEY JR, HARTWELL H; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007398); 18 MONTHS \$14,000

PENNSYLVANIA

CLARION STATE COLLEGE
KONITZKY, GUSTAV A; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007376); 10 MONTHS \$7,452

HAHNEMANN MEDICAL COLLEGE AND HOSPITAL
SATINSKY, VICTOR P; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007380); 18 MONTHS \$34,216

LEHIGH UNIVERSITY
WILANSKY, A; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007313); 10 MONTHS \$14,262

MARINE SCIENCE CONSORTIUM
OOSTDAM, B L; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007387); 10 MONTHS \$15,832

UNIVERSITY OF PITTSBURGH
STOEHR, R A; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007316); 10 MONTHS \$6,823

RHODE ISLAND

UNIVERSITY OF RHODE ISLAND
CROSSDALE, WILLIAM; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007395); 10 MONTHS \$13,258

SOUTH CAROLINA

CLEMSON UNIVERSITY
BAXTER JR, L W; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007318); 10 MONTHS \$12,980

UNIVERSITY OF SOUTH CAROLINA
ZINGMARK, RICHARD G; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007381); 10 MONTHS \$14,751

TENNESSEE

CARSON-NEWMAN COLLEGE
NAYLOR, GERALD W; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007616); 10 MONTHS \$17,843

CHRISTIAN BROTHERS COLLEGE
DOODY, EDWARD; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007386); 10 MONTHS \$17,017

DAVID LIPSCOMB COLLEGE
WALDEN, GEORGE E; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007614); 10 MONTHS \$16,640

TENNESSEE TECHNOLOGICAL UNIVERSITY
MARTIN, ROBERT E; TECH AQUA PROJECT (Y007679 001*); \$26,000

UNIVERSITY OF THE SOUTH
PEYSER, CHARLES S; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007691); 10 MONTHS \$8,168

TEXAS

BAYLOR UNIVERSITY
SCHWETMAN, HERBERT D; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007618); 10 MONTHS \$6,046

TEXAS A & M UNIVERSITY
FIFE, WILLIAM P; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007388); 10 MONTHS \$13,719

TEXAS ASSN FOR GRADUATE EDUCATION & RESEARCH
PIERCE, JACK R; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007607); 10 MONTHS \$35,818

UNIV OF TEXAS AT AUSTIN
SPEAR, IRWIN; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007344); 10 MONTHS \$20,161

UTAH

UNIVERSITY OF UTAH
DAVIS, E ALLAN; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007354); 18 MONTHS \$25,284

UTAH STATE UNIVERSITY
CANNON, LAWRENCE O; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007344); 10 MONTHS \$16,398

VERMONT

RENNINGTON COLLEGE
VAN DERLINDE, REINHOUD H; STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE) (W007307); 10 MONTHS \$22,270

VIRGINIA

COLLEGE OF WILLIAM AND MARY
FUNSTEN, HERBERT O; *STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE)* (W007800); 10 MONTHS \$2,664

WASHINGTON

FOUNDATION FOR GLACIER AND ENVIRONMENTAL RES
MILLER, MAYNARD M; *STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE)* (W007868); 10 MONTHS \$6,160

UNIVERSITY OF WASHINGTON

JAYNE, BENJAMIN A; *STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE)* (W007898); 10 MONTHS \$16,000

WHITMAN COLLEGE

KEISER JR, VICTOR H; *STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE)* (W007838); 10 MONTHS \$12,845

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY

KELLER JR, E C; *STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE)* (W007894); 10 MONTHS \$12,322

WHEELING COLLEGE

LONER, CHARLES J; *STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE)* (W007878); 18 MONTHS \$3,398

WISCONSIN

UNIVERSITY OF WISCONSIN, MADISON

MAXWELL, GEORGE M; *STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE)* (W007811); 10 MONTHS \$10,913

WISCONSIN STATE UNIVERSITY, LA CROSSE

ARORA, MANMOHAN S; *STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE)* (W007813); 10 MONTHS \$17,803

WISCONSIN STATE UNIVERSITY, SUPERIOR

DICKAS, ALBERT B; *STUDENT SCIENCE TRAINING PROGRAM (PRE-COLLEGE)* (W007817); 10 MONTHS \$18,127

UNDERGRADUATE LEVEL

ALABAMA

ALABAMA AGRICULTURAL AND MECHANICAL UNIVERSITY

RIGGINS, LEE SHEPTON; *EVALUATION OF RURAL WATER SUPPLIES IN NORTH ALABAMA* (Y009845); 12 MONTHS \$10,350

TUSKEGEE INSTITUTE

SAINI, RAJINDER S; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009871); 11 MONTHS \$11,910

UNIVERSITY OF ALABAMA IN BIRMINGHAM

PEARSON, COLIN A; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009810); 11 MONTHS \$14,080

UNIVERSITY OF ALABAMA, TUSCALOOSA

ALBRIGHT JR, RONALD G; *PESTICIDE DISTRIBUTION IN A TYPICAL SOUTHEASTERN REGION* (Y009892); 12 MONTHS \$18,780

ALASKA

UNIVERSITY OF ALASKA

HOSKINS, L CLARON; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y010016); 11 MONTHS \$5,670

ARIZONA

ARIZONA STATE UNIVERSITY

REISER, CASTLE O; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y010007); 11 MONTHS \$11,630

UNIVERSITY OF ARIZONA

MULLER, ANTHONY B; *STUDENT-ORIGINATED STUDIES* (Y009871); 12 MONTHS \$10,010

SEMELSBERGER, ROBERT G; *SULFUR DIOXIDE-SULFATE SMELTER EMISSIONS IN THE SAN MANUEL-TUCSON BASIN* (Y009868); 12 MONTHS \$15,950

ARKANSAS

UNIVERSITY OF ARKANSAS

MOOSE, MICHAEL; *THE MOBILE HOME SYNDROME: ITS PROGNOSIS, DIAGNOSIS, AND PRESCRIPTION* (Y009814); 12 MONTHS \$13,240

YEARGAN, J R; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009889); 11 MONTHS \$9,600

SIMS, LESLIE B; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y010017); 11 MONTHS \$16,410

CALIFORNIA

CALIFORNIA ACADEMY OF SCIENCES

SHAW, EVELYN; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009811); 11 MONTHS \$10,020

CALIFORNIA INSTITUTE OF TECHNOLOGY

DEAN, RICHARD A; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009784); 11 MONTHS \$10,760

BEAUCHAMP, JESSE LEE; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009788); 11 MONTHS \$18,720

CLARK, DONALD S; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009789); 11 MONTHS \$11,510

SINSHEIMER, ROBERT L; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009880); 11 MONTHS \$26,380

CALIFORNIA STATE COLLEGE AT BAKERSFIELD

STARBUCK JR, EDWIN R; *AIR POLLUTION AND ITS RELATION TO LUNG DISORDERS* (Y009887); 12 MONTHS \$19,840

CALIFORNIA STATE COLLEGE AT SONOMA

SERPA, LAWRENCE E; *THE IMPACT OF BACKPACKERS ON THE SIERRA NEVADA* (Y009890); 12 MONTHS \$8,810

CALIFORNIA STATE UNIVERSITY, FRESNO

KAUFFMAN, GEORGE B; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009818); 11 MONTHS \$17,650

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

BROWN, COSTELLO L; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009813); \$16,200

BROWN, COSTELLO L; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009815 061); \$900

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

NEWCOMB, CHARLES P; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009848); 11 MONTHS \$5,030

CALIFORNIA STATE UNIVERSITY, SAN DIEGO

WALBA, HAROLD; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009788); 11 MONTHS \$20,170

HILLIX, WILLIAM A; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009817); 11 MONTHS \$14,270

CALIFORNIA STATE UNIVERSITY, SAN JOSE

KIRMEYER, SANDRA; *SOCIAL, PSYCHOLOGICAL AND ENVIRONMENTAL FACTORS AFFECTING ATTITUDES TOWARD PARENT-TOOD* (Y009875); 12 MONTHS \$17,810

HENRY, DIANA GALE; *IMPACT OF HUMAN ACTIVITY ON HENRY W. COE STATE PARK* (Y009814); 12 MONTHS \$16,870

CALIFORNIA STATE UNIVERSITY, SAN LUIS OBISPO

LANE, JOHN R; *LAND OWNERSHIP AND PLANNING TECHNIQUES* (Y009848); 12 MONTHS \$11,630

HARVEY MUDD COLLEGE

KUBOTA, MITSURU; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009780); 11 MONTHS \$9,300

GREEVER, JOHN; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009818); 11 MONTHS \$10,300

IMMACULATE HEART COLLEGE

GREEN, SR AGNES ANN; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009819); 11 MONTHS \$7,330

MOUNT ST MARY'S COLLEGE

BUNDY, HALLIE F; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009820); 11 MONTHS \$4,000

OCCIDENTAL COLLEGE

MCADAM, DOUG; *POWER STRUCTURE IN AN INTERRACIAL FRINGE COMMUNITY* (Y009853); 12 MONTHS \$11,280

DEHAAN, FRANK P; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009881); 11 MONTHS \$8,000

POMONA COLLEGE

FASS, RICHARD A; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009778); 11 MONTHS \$7,650

STANFORD UNIVERSITY

RILEY, WILLIAM M; *SHORT-TERM HEALTH EFFECTS OF AIR POLLUTION* (Y009854); 12 MONTHS \$12,790

KEUSINK, CHRISTOPHER; *EFFECTS OF CALIFACTION ON SUB-TIDAL AND INTER-TIDAL COMMUNITIES: PHASE 1* (Y009858); 12 MONTHS \$10,200

UNIVERSITY OF CALIFORNIA, BERKELEY

HAND, CADET; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009815); 11 MONTHS \$9,760

UNIVERSITY OF CALIFORNIA, IRVINE

HEALEY, PATRICK L; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y010091); 11 MONTHS \$22,530

UNIVERSITY OF CALIFORNIA, LOS ANGELES

KNOBLER, CHARLES M; UNDERGRADUATE RESEARCH PARTICIPATION (Y009740); 11 MONTHS \$31,200

RITTENBERG, S C; UNDERGRADUATE RESEARCH PARTICIPATION (Y009921); 11 MONTHS \$12,200

UNIVERSITY OF CALIFORNIA, RIVERSIDE

SIEH, KERRY; THE SOCIOLOGICAL AND ECONOMIC IMPACT OF SAN JACINTO FAULT SYSTEM (Y009867); 12 MONTHS \$24,670

CARTER, LEWIS F; UNDERGRADUATE RESEARCH PARTICIPATION (Y009743); 11 MONTHS \$15,620

SHANNON, LELAND M; UNDERGRADUATE RESEARCH PARTICIPATION (Y009928); 11 MONTHS \$14,240

UNIVERSITY OF CALIFORNIA, SAN DIEGO

ATKINSON, WILLIAM D; COMPUTER ANIMATION OF AIR POLLUTION (Y009581); 12 MONTHS \$16,900

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

LEW, BARCLAY; CRIMINAL ACTIVITY AND ALLOCATION OF POLICE MANPOWER IN SANTA BARBARA (Y009577); 12 MONTHS \$7,220

UNIVERSITY OF REDLANDS

ROBERTS, JULIAN L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009791); 11 MONTHS \$5,120

UNIVERSITY OF SANTA CLARA

DE BOUVERE, KAREL L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009933); 11 MONTHS \$10,630

UNIVERSITY OF THE PACIFIC

VAN BUSKIRK, MARY ANNE; CAUSES AND EFFECTS OF CULTURAL EUTROPHICATION OF BLUE LAKE (Y009639); 12 MONTHS \$13,060

COLORADO

COLORADO STATE UNIVERSITY

BOTTOMS, KENNETH E; ENVIRONMENTAL MANAGEMENT ALTERNATIVES FOR FIVE LEVELS OF LAND USE (Y009632); 12 MONTHS \$15,940

UNIVERSITY OF COLORADO

IVES, JACK D; UNDERGRADUATE RESEARCH PARTICIPATION (Y009793); 11 MONTHS \$15,420

ASHBY, NEIL; UNDERGRADUATE RESEARCH PARTICIPATION (Y009818); 11 MONTHS \$13,100

UNIVERSITY OF DENVER

BRANDOM, WILLIAM F; UNDERGRADUATE RESEARCH PARTICIPATION (Y009927); 11 MONTHS \$12,440

CORTESE, CHARLES F; UNDERGRADUATE RESEARCH PARTICIPATION (Y009559); 11 MONTHS \$15,200

WESTERN INTERSTATE COMM FOR HIGHER EDUCATION

HULLINGHORST, ROBERT S; RESOURCES DEVELOPMENT INTERNSHIP PROGRAM (Y009347); 16 MONTHS \$18,225

UNIVERSITY OF COLORADO-DENVER CENTER

HOVEY III, GEORGE L; STUDENT-ORIGINATED STUDIES (Y009563); 12 MONTHS \$16,050

CONNECTICUT

CONNECTICUT COLLEGE

DESIDERATO, OTELLO; UNDERGRADUATE RESEARCH PARTICIPATION (Y009929); 11 MONTHS \$14,420

FAIRFIELD UNIVERSITY

TOOMEY, JOHN; CHEMICAL COMPOSITION AND BIOLOGICAL ACTIVITY IN THE HOUSATONIC RIVER (Y009881); 12 MONTHS \$14,150

O'CONNELL JR, E J; UNDERGRADUATE RESEARCH PARTICIPATION (Y009928); 11 MONTHS \$6,570

NRW ENGLAND INSTITUTE

SMITH, JOHN; THE GREAT SWAMP IN PATTERSON, PUTNAM COUNTY, NEW YORK (Y009654); 11 MONTHS \$9,150

ST JOSEPH COLLEGE

CONDON, JEANETTE; PROBLEMS AND POTENTIAL USES OF LAKE LILLINONAH (Y009671); 12 MONTHS \$15,540

MARKHAM, SR M CLARE; UNDERGRADUATE RESEARCH PARTICIPATION (Y009870); 11 MONTHS \$5,990

WESLEYAN UNIVERSITY

SMITH, CHARLES H; PARAMETERS FOR DETERMINING LAND USE IN THE COGINCHAUG RIVER VALLEY (Y009635); 12 MONTHS \$13,690

CUROTT, DAVID R; UNDERGRADUATE RESEARCH PARTICIPATION (Y009920); 11 MONTHS \$7,240

YALE UNIVERSITY

FISHER, JOHN BERTON; SUBSTRATE PERTURBATIONS OF BENTHIC COMMUNITIES IN LONG ISLAND SOUND (Y009823); 12 MONTHS \$12,570

WESTERFIELD, H BRADFORD; UNDERGRADUATE RESEARCH PARTICIPATION (Y009731); 11 MONTHS \$18,590

RESORLA, ROBERT A; UNDERGRADUATE RESEARCH PARTICIPATION (Y009785); 11 MONTHS \$17,290

RAMUS, J S; UNDERGRADUATE RESEARCH PARTICIPATION (Y009923); 11 MONTHS \$13,730

DELAWARE

UNIVERSITY OF DELAWARE

RUSHER, DAVID L; EFFECTS OF NOISE, CAGE COMPLEXITY AND DENSITY ON LABORATORY RAT POPULATIONS (Y009910); 12 MONTHS \$25,300

COOPER, CHARLES B; UNDERGRADUATE RESEARCH PARTICIPATION (Y009866); 11 MONTHS \$10,160

DISTRICT OF COLUMBIA

EXOTECH SYSTEMS INC

SCHALKOWSKY, SAMUEL; COLLEGE UNDERGRADUATE INSTRUCTIONAL PROGRAM (C433018); 8 MONTHS \$11,820

GEORGETOWN UNIVERSITY

EVANS, PAMELA MARI; EXPLORING TECHNIQUES FOR OVERCOMING MISPERCEPTIONS IN INTERRACIAL COMMUNICATIONS (Y009385); 12 MONTHS \$11,870

POPE, MICHAEL T; UNDERGRADUATE RESEARCH PARTICIPATION (Y009767); 11 MONTHS \$12,720

SMITHSONIAN INSTITUTION

DAVIDSON, EDWARD S; UNDERGRADUATE RESEARCH PARTICIPATION (Y009729); 11 MONTHS \$15,620

DAVIDSON, EDWARD S; UNDERGRADUATE RESEARCH PARTICIPATION (Y009724); 11 MONTHS \$8,480

FLORIDA

FLORIDA STATE UNIVERSITY

GROSSLIGHT, J H; UNDERGRADUATE RESEARCH PARTICIPATION (Y009756); 11 MONTHS \$19,600

FLORIDA TECHNOLOGICAL UNIVERSITY

POPPIEON, JAMES ERI; A BIOTIC PROFILE OF THE FTU CAMPUS PINKFLANDS (Y009631); 12 MONTHS \$18,060

UNIVERSITY OF FLORIDA

DOLBIER JR, WILLIAM R; UNDERGRADUATE RESEARCH PARTICIPATION (Y009736); 11 MONTHS \$24,430

SHEPPARD, D MAX; UNDERGRADUATE RESEAP 4 PARTICIPATION (Y009904); 11 MONTHS \$22,800

CLUBOK, ALFRED B; UNDERGRADUATE RESEA PARTICIPATION (Y010014); 11 MONTHS \$14,590

UNIVERSITY OF MIAMI

NEALE, PATRICK H; CHEMICAL AND BIOLOGICAL CAUSES OF SOUTH FLORIDA FISH KILLS (Y009878); 12 MONTHS \$17,670

GEORGIA

AGNES SCOTT COLLEGE

CLARK, MARION T; UNDERGRADUATE RESEARCH PARTICIPATION (Y009863); 11 MONTHS \$12,110

COLUMBUS COLLEGE

MIMS, SUSAN C; EFFECTS OF AN URBAN ENVIRONMENT ON BULL CREEK DRAINAGE SYSTEM (Y009613); 12 MONTHS \$16,180

EMORY UNIVERSITY

DAY JR, R A; UNDERGRADUATE RESEARCH PARTICIPATION (Y009773); 11 MONTHS \$11,680

GEORGIA INSTITUTE OF TECHNOLOGY

LIOTTA, CHARLES L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009892); 11 MONTHS \$12,180

UNIVERSITY OF GEORGIA

SCOTT, ALAN; UNDERGRADUATE RESEARCH PARTICIPATION (Y009806); 11 MONTHS \$18,290

WYNNE, KENNETH J; UNDERGRADUATE RESEARCH PARTICIPATION (Y009859); 11 MONTHS \$24,400

SANSING, NORMAN G; UNDERGRADUATE RESEARCH PARTICIPATION (Y009931); 11 MONTHS \$9,300

HAWAII

UNIVERSITY OF HAWAII

KJARGAARD, JOY N I; RAIN FOREST ECOSYSTEMS IN WAIHOI VALLEY AND UPPER HANA FOREST RESERVE (Y009684); 12 MONTHS \$18,420

WESTERN, ROBERT J; THE MOKAPU OUTFALL BASELINE (Y009668); 12 MONTHS \$23,540

TUGGLE, H DAVID; UNDERGRADUATE RESEARCH PARTICIPATION (Y009817); 11 MONTHS \$7,250

IDAHO

IDAHO STATE UNIVERSITY

JOHNSON, DONALD W; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y010030); 11 MONTHS \$19,080

UNIVERSITY OF IDAHO

BUETTNER, MARK R; *WATER QUALITY OF THE PALOUSE RIVER DRAINAGE* (Y009816); 12 MONTHS \$16,170

RENFEW, MALCOLM M; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009924); 11 MONTHS \$12,000

ILLINOIS

ARGONNE NATIONAL LABORATORY

MILLER, SHELBY A; *UNDERGRADUATE RESEARCH PARTICIPATION* (AG00354); 11 MONTHS \$30,400

MILLER, SHELBY A; *UNDERGRADUATE RESEARCH PARTICIPATION* (AG00355); 11 MONTHS \$30,400

MILLER, SHELBY A; *UNDERGRADUATE RESEARCH PARTICIPATION* (AG00356); 11 MONTHS \$30,400

BRADLEY UNIVERSITY

BORKLUND, RICHARD G; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009925); 11 MONTHS \$5,790

FIELD MUSEUM OF NATURAL HISTORY

MARTIN, PAUL S; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009732); 11 MONTHS \$21,600

ILLINOIS INSTITUTE OF TECHNOLOGY

WARNER, BRIAN D; *STEREOSPECIFIC CHELATING AGENTS IN THE DETOXIFICATION OF HEAVY METALS* (Y009664); 12 MONTHS \$14,710

NEUBERT, THEODORE J; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009886); 11 MONTHS \$12,520

KNOX COLLEGE

MITTON, JOSEPH P; *GROWTH RESPONSES OF BLUE-GREEN ALGAE IN VARIOUS CHEMICAL CONCENTRATIONS* (Y009619); 12 MONTHS \$16,520

HARRIS, LELAND; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009889); 11 MONTHS \$7,200

SCHRAMM, PETER; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y010025); 11 MONTHS \$8,100

LOYOLA UNIVERSITY

BRUNETTI, ROBERT G; *EFFECTS OF CHLORIDES ON AQUATIC INVERTEBRATES* (Y009647); 12 MONTHS \$9,890

MONMOUTH COLLEGE

PAYNE, JOHN C, AND PETERSEN, QUENTIN R; *A STUDENT-ORIGINATED, MANAGED AND PRESENTED COURSE IN SCIENCE FOR THE FRESHMAN NON-SCIENCE MAJOR* (Y009694); 12 MONTHS \$8,900

NORTHERN ILLINOIS UNIVERSITY

EHORN, DDUGLAS A; *AN ANALYSIS OF LEAD POLLUTION IN THE ILLINOIS RIVER SYSTEMS* (Y009687); 12 MONTHS \$22,450

NORTHWESTERN UNIVERSITY

ERENRICH, GARY ROBERT; *MODELING REFUSE MANAGEMENT SYSTEMS* (Y009669); 12 MONTHS \$19,200

FREY, PETER; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009784); 11 MONTHS \$19,500

GOLDBERG, ERWIN; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009877); 11 MONTHS \$25,640

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

SELLE, BRIAN; *RECLAMATION OF ACID SPOIL LANDS* (Y009612); 12 MONTHS \$1,460

SOUTHERN ILLINOIS UNIVERSITY - EDWARDSVILLE

KANG, IKJU; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009883); 11 MONTHS \$9,050

UNIVERSITY OF CHICAGO

MAHERN, ANTHONY M; *ARCHITECTURAL PRESERVATION POLICY IN CHICAGO* (Y009697); 12 MONTHS \$13,710

YANG, N C; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009774); 11 MONTHS \$12,720

HARBERGER, ARNOLD C; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009933); 11 MONTHS \$21,120

UNIVERSITY OF ILLINOIS AT URBANA

HUMMEL, JOHN P; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009793); 11 MONTHS \$18,350

MARSH, RICHARD R; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009816); 11 MONTHS \$18,520

MALPASS, ROY S; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009381); 11 MONTHS \$24,350

SANDERS, STEVEN G; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009893); 11 MONTHS \$15,480

WESTERN ILLINOIS UNIVERSITY

DYER, NORMAN J; *RECOVERY OF STREAM MICROCOSMS FOLLOWING SEWAGE ELIMINATION* (Y009568); 12 MONTHS \$7,580

INDIANA

EARLHAM COLLEGE

MARTIN, CHARLES W; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009848); 11 MONTHS \$6,750

GIFFORD, CAMERON E; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y010019); 11 MONTHS \$13,330

INDIANA UNIVERSITY, BLOOMINGTON

HIRS, C H W; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009750); 11 MONTHS \$22,680

SPRINGER, GEORGE; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009900); 11 MONTHS \$19,200

PURDUE UNIVERSITY

SHAFFER, PAUL; *STUDENT-ORIGINATED STUDIES* (Y009567); 12 MONTHS \$16,300

LIVINGSTON, ROBERT L; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009856); 11 MONTHS \$22,350

UNIVERSITY OF NOTRE DAME

BORKOWSKI, JOHN G; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009949); 11 MONTHS \$12,440

ALLEN, C W; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009885); 11 MONTHS \$5,100

YANG, K T; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009898); 11 MONTHS \$16,640

IOWA

CORNELL COLLEGE

AULT, ADDISON; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009764); 11 MONTHS \$7,270

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

BARTON, THOMAS J; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009809); 11 MONTHS \$17,690

HARTMAN, PAUL A; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009824); 11 MONTHS \$8,830

ROUGVIE, MALCOLM A; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y010024); 11 MONTHS \$10,340

LUTHER COLLEGE

KLEMM, MARK H; *WATER QUALITY OF THE UPPER IOWA RIVER WATERSHED* (Y009578); 12 MONTHS \$14,830

UNIVERSITY OF IOWA

PFLAUM, RONALD T; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009794); 11 MONTHS \$12,800

LEVIN, IRWIN P; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009805); 11 MONTHS \$18,750

GUILLORY, J KEITH; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y010018); 11 MONTHS \$10,770

KANSAS

BENEDICTINE COLLEGE

KRAKOWIECKI, JOSEPH M; *SCIENTIFIC AND HISTORICAL ASPECTS OF MISSOURI RIVER POLLUTANTS* (Y009627); 12 MONTHS \$16,800

FORT HAYS KANSAS STATE COLLEGE

TODD, LARRY L; *PROJECT 'CARLA' COST ANALYSIS FOR THE RENOVATION OF LAKE ATWOOD* (Y009609); 12 MONTHS \$20,670

KANSAS STATE UNIVERSITY

GREIG, WILLIAM H; *POLLUTION CONTROL IN KANSAS: ATTITUDES OF OFFICIALS AND THE GENERAL POPULATION* (Y009626); 12 MONTHS \$14,710

SCHRENK, W G; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009854); 11 MONTHS \$15,450

UNIVERSITY OF KANSAS

MIDDAUGH, R L; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009797); 11 MONTHS \$18,610

CULVAHOUSE, J W; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009853); 11 MONTHS \$16,860

DRAPER, LAURENCE R; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009874); 11 MONTHS \$13,400

GRUNEWALD, GARY L; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009874); 11 MONTHS \$12,190

MALONEY, J O; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009890); 11 MONTHS \$16,190

HEDRICK, PHILIP W; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y010009); 11 MONTHS \$15,310

KENTUCKY

CENTRE COLLEGE OF KENTUCKY

WALKUP, JOHN H; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009926); 11 MONTHS \$12,000

THOMAS MORE COLLEGE

SCHEWE, GEORGE J; *RELATIONSHIP OF FREEWAY POLLUTION TO SURROUNDING AND NEARBY AREAS* (Y009574); 12 MONTHS \$10,580

MINER, GEORGE K; UNDERGRADUATE RESEARCH PARTICIPATION (Y009800); 11 MONTHS \$1,070

UNIVERSITY OF LOUISVILLE

HUBBS, STEPHEN A; LEAF DISPOSAL- A STUDY OF ALTERNATIVES (Y009588); 12 MONTHS \$12,930

SHELTON, R D; UNDERGRADUATE RESEARCH PARTICIPATION (Y009931); 11 MONTHS \$10,260

WESTERN KENTUCKY UNIVERSITY

DANIEL, LARRY; THE CONTRIBUTION OF WASTE WATER TREATMENT PLANTS TO LOCALIZED AIR POLLUTION PROBLEMS (Y009591); 12 MONTHS \$12,840

SIMPSON JR, WILLIAM B; WATER QUALITY IN THE TRIBUTARIES OF THE BARREN RIVER (Y008883); 12 MONTHS \$11,170

LOUISIANA

LOUISIANA STATE UNIVERSITY, BATON ROUGE

DANIEL JR, L R; UNDERGRADUATE RESEARCH PARTICIPATION (Y009788); 11 MONTHS \$13,600

LOUISIANA TECH UNIVERSITY

GALLI, ANTHONY J; UNDERGRADUATE RESEARCH PARTICIPATION (Y009933); 11 MONTHS \$9,200

LOYOLA UNIVERSITY

UPADHYAY, J M; UNDERGRADUATE RESEARCH PARTICIPATION (Y009936); 11 MONTHS \$10,190

MAINE

JACKSON LABORATORY

WAYMOUTH, CHARITY; UNDERGRADUATE RESEARCH PARTICIPATION (Y009881); 11 MONTHS \$24,510

UNIVERSITY OF MAINE, ORONO

VETELINO, JOHN F; UNDERGRADUATE RESEARCH PARTICIPATION (Y009912); 11 MONTHS \$9,590

MARYLAND

NONE; OTHER PROGRAM AWARDS (2)AWDS); \$4,105

GOUCHER COLLEGE

PARSLEY, PATRICIA E; EVALUATION AND PREDICTIONS ON THE EUTROPHICATION OF THE BUSH RIVER SUB-ESTUARY (Y009586); 12 MONTHS \$19,130

JOHNS HOPKINS UNIVERSITY

PLACE, ALLEN RICHARD; NUTRITION AND SYSTEMATICS OF CHESAPEAKE BAY PLANKTONS (Y009601); 12 MONTHS \$12,950

BARTLEY, DONALD CRAIG; METAL DECONTAMINATION IN OYSTERS BY DIPHENYLTHIOCARBAZONE DERIVATIVES (Y008604); 12 MONTHS \$14,840

UNIVERSITY OF MARYLAND, COLLEGE PARK

STRUSE, CELESTE BAKER; EROSION AND SEDIMENT CONTROL ON THE UNIVERSITY OF MARYLAND CAMPUS (Y009596); 12 MONTHS \$7,660

BROWN, JOSHUA R C; UNDERGRADUATE RESEARCH PARTICIPATION (Y010008); 11 MONTHS \$14,410

UNIVERSITY OF MARYLAND, COLLEGE PARK-CHESAPEAKE BIOLOGICAL LAB

KOO, TED S Y; UNDERGRADUATE RESEARCH PARTICIPATION (Y010026); 11 MONTHS \$10,100

MASSACHUSETTS

AMHERST COLLEGE

SILVER, MARC S; UNDERGRADUATE RESEARCH PARTICIPATION (Y009753); 11 MONTHS \$4,380

BROPHY, GERALD P; UNDERGRADUATE RESEARCH PARTICIPATION (Y009911); 11 MONTHS \$7,210

BOSTON COLLEGE

LIND JR, HENRY F; AQUACULTURE OF THE NAUSET MARSH (Y009603); 12 MONTHS \$9,150

MARANO, ALBERT R; WATER QUALITY AND URBAN PLANNING IN THE LAKE COCHITUATE WATERSHED (Y009637); 12 MONTHS \$10,710

BOSTON UNIVERSITY

JOSEPH, MONICA A; A METHOD OF QUANTITATIVE ANALYSIS OF ATMOSPHERIC POLLUTION (Y009641); 12 MONTHS \$9,130

CLARK UNIVERSITY

CURTIS, JOSEPH C; UNDERGRADUATE RESEARCH PARTICIPATION (Y009939); 11 MONTHS \$12,740

HARVARD UNIVERSITY

ARLOTTO, ANTHONY T; UNDERGRADUATE RESEARCH PARTICIPATION (Y009918); 11 MONTHS \$4,000

LOWELL TECHNOLOGICAL INSTITUTE

STEED, JULIA; THE LOWELL CANAL SYSTEM AS A COMMUNITY RESOURCE (Y009378); 12 MONTHS \$18,530

MARIA MITCHELL OBSERVATORY

HOFFLEIT, DORRIT; UNDERGRADUATE RESEARCH PARTICIPATION (Y009932); 11 MONTHS \$4,020

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

COLLIER, ROBERT WILLIAM; A GENERAL RIVER MODEL FROM ANALYSIS DATA ON CHEMICAL AND PHYSICAL PARAMETERS (Y009388); 12 MONTHS \$13,950

COHEN, NEIL; AN EXAMINATION OF URBAN LEGAL PROBLEMS (Y009449); 12 MONTHS \$16,820

GREENE, FREDERICK D; UNDERGRADUATE RESEARCH PARTICIPATION (Y009769); 11 MONTHS \$21,400

LODISH, HARVEY F; UNDERGRADUATE RESEARCH PARTICIPATION (Y009882); 11 MONTHS \$22,380

COONEY, CHARLES L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009907); 11 MONTHS \$16,160

MERRIMACK COLLEGE

TURANO, VINCENT S; UNDERGRADUATE RESEARCH PARTICIPATION (Y009944); 11 MONTHS \$8,960

SIMMONS COLLEGE

BELL, JERRY A; UNDERGRADUATE RESEARCH PARTICIPATION (Y009831); 11 MONTHS \$5,160

SMITH COLLEGE

DE VILLAFRANCA, GEORGE W; UNDERGRADUATE RESEARCH PARTICIPATION (Y009937); 11 MONTHS \$11,890

TUFTS UNIVERSITY

HAAS, TERRY E; UNDERGRADUATE RESEARCH PARTICIPATION (Y009719); 11 MONTHS \$12,970

BROWN, LINFIELD C; UNDERGRADUATE RESEARCH PARTICIPATION (Y009827); 11 MONTHS \$6,270

NICKERSON, NORTON H; UNDERGRADUATE RESEARCH PARTICIPATION (Y010021); 11 MONTHS \$13,040

UNIVERSITY OF MASSACHUSETTS, AMHERST

BAILEY, GLENN P; USE OF INDUSTRIAL EFFLUENT IN FOOD PRODUCTION AND SUBSEQUENT WASTE TREATMENT (Y009589); 12 MONTHS \$12,700

FAREZO, KENNETH L; TEST, EVALUATION AND IMPACT OF URBAN VEHICLE SYSTEMS (Y009660); 12 MONTHS \$13,490

KIRCHHOFF, ROBERT; UNDERGRADUATE RESEARCH PARTICIPATION (Y009915); 11 MONTHS \$13,260

WELLESLEY COLLEGE

ALLEN, MARY M; UNDERGRADUATE RESEARCH PARTICIPATION (Y009445); 11 MONTHS \$11,050

WILLIAMS COLLEGE

TARPY, ROGER M; UNDERGRADUATE RESEARCH PARTICIPATION (Y009818); 11 MONTHS \$9,450

ART, HENRY W; UNDERGRADUATE RESEARCH PARTICIPATION (Y009938); 11 MONTHS \$9,210

WORCESTER POLYTECHNIC INSTITUTE

SAVILONIS, BRIAN; A POLLUTION ABATEMENT SYSTEM FOR LAKE QUINNIGAMOND (Y009617); 12 MONTHS \$10,190

DAVID, DANIEL L; EVALUATION OF THE WPI URBAN VEHICLE CONCEPT (Y009677); 12 MONTHS \$15,030

BUSHWELLER, C HACKETT; UNDERGRADUATE RESEARCH PARTICIPATION (Y009770); 11 MONTHS \$14,400

ZWIEP, DONALD N; UNDERGRADUATE RESEARCH PARTICIPATION (Y009790); 11 MONTHS \$11,090

MICHIGAN

ADRIAN COLLEGE

MILLER, ROBERT C; UNDERGRADUATE RESEARCH PARTICIPATION (Y009917); 11 MONTHS \$2,300

ALMA COLLEGE

BEAUMONT, RANDOLPH C; UNDERGRADUATE RESEARCH PARTICIPATION (Y009916); 11 MONTHS \$6,430

EASTERN MICHIGAN UNIVERSITY

CARTER, GILES F; UNDERGRADUATE RESEARCH PARTICIPATION (Y009878); 11 MONTHS \$8,680

HOPE COLLEGE

OCKERSE, RALPH; UNDERGRADUATE RESEARCH PARTICIPATION (Y009311); 11 MONTHS \$12,060

BRINK, IRWIN J; UNDERGRADUATE RESEARCH PARTICIPATION (Y009871); 11 MONTHS \$14,620

REYNIERSE, JAMES H; UNDERGRADUATE RESEARCH PARTICIPATION (Y010022); 11 MONTHS \$12,050

MICHIGAN STATE UNIVERSITY

- BARCH, A M; UNDERGRADUATE RESEARCH PARTICIPATION (Y009788); 11 MONTHS \$15,230
 KINDEL, PAUL K; UNDERGRADUATE RESEARCH PARTICIPATION (Y009874); 11 MONTHS \$18,000
 KELLY, W H; UNDERGRADUATE RESEARCH PARTICIPATION (Y009833); 11 MONTHS \$21,120
 LINNELL, ALBERT F; UNDERGRADUATE RESEARCH PARTICIPATION (Y009910); 11 MONTHS \$5,580

NORTHERN MICHIGAN UNIVERSITY

- STEWART, SCOT; USE OF MUNICIPAL AND INDUSTRIAL BY-PRODUCTS AS A SOIL-LIKE PRODUCT (Y009876); 12 MONTHS \$10,080

OAKLAND UNIVERSITY

- TOMBOULIAN, PAUL; UNDERGRADUATE RESEARCH PARTICIPATION (Y009716); 11 MONTHS \$9,160

UNIVERSITY OF MICHIGAN

- LARIMORE, ANN E; UNDERGRADUATE RESEARCH PARTICIPATION (Y009733); 11 MONTHS \$2,820
 DRACH, J C; UNDERGRADUATE RESEARCH PARTICIPATION (Y009741); 11 MONTHS \$9,930
 FORD, RICHARD I; UNDERGRADUATE RESEARCH PARTICIPATION (Y010011); 11 MONTHS \$22,060

MINNESOTA**CARLETON COLLEGE**

- CUNNINGHAM, MICHAEL B; STUDENT-ORIGINATED STUDIES (Y009867 001); 12 MONTHS \$520
 SHOLES, OWEN; LAND-USE STUDY OF RICE COUNTY, MINNESOTA (Y009877); 12 MONTHS \$10,410
 MOHRIG, JERRY R; UNDERGRADUATE RESEARCH PARTICIPATION (Y009889); 11 MONTHS \$4,060
 SHOGER, ROSS L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009877); 11 MONTHS \$13,260

GUSTAVUS ADOLPHUS COLLEGE

- ANDERSON, MYRON A; UNDERGRADUATE RESEARCH PARTICIPATION (Y009914); 11 MONTHS \$5,090

ST OLAF COLLEGE

- LARSON, LOREN C; UNDERGRADUATE RESEARCH PARTICIPATION (Y009979); 11 MONTHS \$13,060

UNIVERSITY OF MINNESOTA

- HAGER, KETH WATERHOUSE; STUDENT ORIGINATED STUDIES (Y009771 001); 11 MONTHS \$6,850
 KELLER, KENNETH H; UNDERGRADUATE RESEARCH PARTICIPATION (Y009914); 11 MONTHS \$12,900

- UNIVERSITY OF MINNESOTA-UNIVERSITY OF MINNESOTA, DULUTH
 HARRISS, DONALD K; UNDERGRADUATE RESEARCH PARTICIPATION (Y009719); 11 MONTHS \$15,630

MISSISSIPPI**MISSISSIPPI COLLEGE**

- WEST, BURKE; LEAD TRANSFER IN THE JACKSON ENVIRONMENT (Y009875); 12 MONTHS \$16,190

RUST COLLEGE

- AHUJA, AVTAR S; UNDERGRADUATE RESEARCH PARTICIPATION (Y010012); 11 MONTHS \$10,970

UNIVERSITY OF MISSISSIPPI

- LITTLE, J L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009908); 11 MONTHS \$5,000

MISSOURI**UNIVERSITY OF MISSOURI, COLUMBIA**

- KAISER, EDWIN M; UNDERGRADUATE RESEARCH PARTICIPATION (Y009774); 11 MONTHS \$15,660
 CREIGHTON, DONALD L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009912); 11 MONTHS \$16,430

UNIVERSITY OF MISSOURI, KANSAS CITY

- BAUER, STEPHEN B; DOMESTIC USE OF PESTICIDES AND FERTILIZERS IN AN URBAN ENVIRONMENT (Y009668); 12 MONTHS \$22,290

UNIVERSITY OF MISSOURI, ROLLA

- SPARLIN, DON M; UNDERGRADUATE RESEARCH PARTICIPATION (Y009847); 11 MONTHS \$10,400
 SAUER JR, HARRY J; UNDERGRADUATE RESEARCH PARTICIPATION (Y009950); 11 MONTHS \$16,960

WASHINGTON UNIVERSITY

- WANN, DONALD F; UNDERGRADUATE RESEARCH PARTICIPATION (Y009814); 11 MONTHS \$10,510
 WATSON, PATTY JO; UNDERGRADUATE RESEARCH PARTICIPATION (Y009851); 11 MONTHS \$8,480

- KARDOS, JOHN L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009812); 11 MONTHS \$7,000

MONTANA**UNIVERSITY OF MONTANA**

- MOZER, THOMAS J; MISSOULA VALLEY AIR POLLUTIDN (Y009881); 12 MONTHS \$10,730
 ALT, DAVID; UNDERGRADUATE RESEARCH PARTICIPATION (Y009747); 11 MONTHS \$8,340

NEBRASKA**KEARNEY STATE COLLEGE**

- BEER, ROBERT A; IMPACT OF WATER RESOURCE DEVELOPMENTS ON THE PLATTE RIVER (Y009848); 12 MONTHS \$9,610

NEBRASKA WESLEYAN UNIVERSITY

- FRENCH JR, WALTER R; UNDERGRADUATE RESEARCH PARTICIPATION (Y009853); 11 MONTHS \$8,400

NEW HAMPSHIRE**DARTMOUTH COLLEGE**

- LYONS, JOHN B; UNDERGRADUATE RESEARCH PARTICIPATION (Y009771); 11 MONTHS \$9,400
 CLELAND, ROBERT L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009891); 11 MONTHS \$12,090
 CLEMENT, M O; UNDERGRADUATE RESEARCH PARTICIPATION (Y009854); 11 MONTHS \$6,480
 ANDERSON, JAMES J; UNDERGRADUATE RESEARCH PARTICIPATION (Y010080); 11 MONTHS \$14,780

NEW HAMPSHIRE COLLEGE

- DUBOIS, MARY R; ATTITUDES AND RESISTANCE TO URBAN CHANGE (Y009886); 12 MONTHS \$18,330

ST ANSELM'S COLLEGE

- SAVAGE, PAUL; UNDERGRADUATE RESEARCH PARTICIPATION (Y009887); 11 MONTHS \$12,040

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

- BECHTELL, HOMER; UNDERGRADUATE RESEARCH PARTICIPATION (Y009855); 11 MONTHS \$13,140

NEW JERSEY**FAIRLEIGH DICKINSON UNIVERSITY**

- DONG, MITCHELL LANG; EFFECTS OF INDUSTRIAL POLLUTION ON THE ECOLOGY OF LONG CORAL REEF (Y009878); 12 MONTHS \$19,350

PRINCETON UNIVERSITY

- GILLHAM, J K; UNDERGRADUATE RESEARCH PARTICIPATION (Y009885); 11 MONTHS \$2,320
 FRESCO, JACQUES R; UNDERGRADUATE RESEARCH PARTICIPATION (Y009887); 11 MONTHS \$12,800

RUTGERS UNIVERSITY

- PAGE, ROBERT H; UNDERGRADUATE RESEARCH PARTICIPATION (Y009817); 11 MONTHS \$12,200
 ZIMMERBERO, H J; UNDERGRADUATE RESEARCH PARTICIPATION (Y009829); 11 MONTHS \$24,710

SETON HALL UNIVERSITY

- STARITA, RICHARD J; CORRELATIONS OF ATMOSPHERIC TRACE METAL CONCENTRATIONS WITH BODY BURDENS (Y009883); 12 MONTHS \$10,140

NEW MEXICO**NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY**

- GRAGO, JOHN; STUDENT-ORIGINATED STUDIES (Y009207 001); \$502
 MULLER, THOMAS J; ECOLOGY OF THE MIDWAY WATERSHED AREA (Y009888); 12 MONTHS \$10,000

NEW MEXICO STATE UNIVERSITY

- AMES, LYNFORD L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009956); 11 MONTHS \$8,470

NEW YORK**AMERICAN MUSEUM OF NATURAL HISTORY**

- ARONSON, LESTER R; UNDERGRADUATE RESEARCH PARTICIPATION (Y009875); 11 MONTHS \$25,270
 ARONSON, LESTER R; UNDERGRADUATE RESEARCH PARTICIPATION (Y009937); 11 MONTHS \$2,520
 ARONSON, LESTER R; UNDERGRADUATE RESEARCH PARTICIPATION (Y010007); 11 MONTHS \$26,480

BARUCH COLLEGE

- STORER, NORMAN W; UNDERGRADUATE RESEARCH PARTICIPATION (Y009958); 11 MONTHS \$6,100

BROOKHAVEN LABORATORY

PRICE, GLENN A; UNDERGRADUATE RESEARCH PARTICIPATION (Y009811); 11 MONTHS \$10,810

PRICE, GLENN A; UNDERGRADUATE RESEARCH PARTICIPATION (Y009812); 11 MONTHS \$2,410

BROOKLYN COLLEGE

ZIEGER, HERMAN E; UNDERGRADUATE RESEARCH PARTICIPATION (Y009800); 11 MONTHS \$24,000

CANISUS COLLEGE

GASIEWICZ, THOMAS; CORRELATION OF MERCURY AND CADMIUM LEVELS WITH HUMAN ENVIRONMENT (Y009819); 12 MONTHS \$8,890

LEONE, JAMES A; UNDERGRADUATE RESEARCH PARTICIPATION (Y009814); 11 MONTHS \$8,930

CITY COLLEGE

KREMER, CHESTER B; UNDERGRADUATE RESEARCH PARTICIPATION (Y009837); 11 MONTHS \$31,000

CLARKSON COLLEGE OF TECHNOLOGY

CHUDYK, WAYNE; SELF-CLEANSING PROPERTIES OF THE ST. REGIS RIVER (Y009878); 12 MONTHS \$7,650

COONEY, DAVID; UNDERGRADUATE RESEARCH PARTICIPATION (Y009861); 11 MONTHS \$12,720

COLD SPRING HARBOR LAB OF QUANTITATIVE BIOLOGY

ZIPSER, DAVID; UNDERGRADUATE RESEARCH PARTICIPATION (Y009899); 10 MONTHS \$15,840

COLGATE UNIVERSITY

MCLELLAND, JAMES; UNDERGRADUATE RESEARCH PARTICIPATION (Y009870); 11 MONTHS \$13,290

COLLEGE AT BROCKPORT

FINLEY, K THOMAS; UNDERGRADUATE RESEARCH PARTICIPATION (Y009817); 11 MONTHS \$11,000

CORNELL UNIVERSITY

TRAVIS, SANDRA E; WATER QUALITY OF THE EAST RIVER, CRESTED BUTTE, COLORADO (Y009800); 12 MONTHS \$13,140

MILLER, W T; UNDERGRADUATE RESEARCH PARTICIPATION (Y009877); 11 MONTHS \$21,000

NELSON, WALTER L; UNDERGRADUATE RESEARCH PARTICIPATION (Y010074); 11 MONTHS \$18,860

HOBART AND WILLIAM SMITH COLLEGES

KIDDER, RICHARD B; ALLOCHTHONOUS POLLUTANTS IN SENECA LAKE (Y009808); 12 MONTHS \$16,970

HUNTER COLLEGE

ONEILL, SUSAN; MODELING TERRITORIAL BEHAVIOR IN RETARDED CHILDREN (Y009880); 12 MONTHS \$18,480

ABBOTT, EDWIN H; UNDERGRADUATE RESEARCH PARTICIPATION (Y009888); 11 MONTHS \$11,510

ITHACA COLLEGE

DELANNEY, LOUIS E; UNDERGRADUATE RESEARCH PARTICIPATION (Y009714); 11 MONTHS \$6,150

KOCH, HEINZ F; UNDERGRADUATE RESEARCH PARTICIPATION (Y009819); 11 MONTHS \$7,440

LE MOYNE COLLEGE

KENNEY, PHILIP J; ECOLOGY OF CAZENOVIA LAKE (Y009884); 12 MONTHS \$10,120

NEW YORK UNIVERSITY

YARMUS, L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009891); 11 MONTHS \$8,090

POLYTECHNIC INSTITUTE OF BROOKLYN

PANOUSSIS, GEORGE; STUDENT-ORIGINATED STUDIES (Y009152 001); \$300

BOORSTYN, ROBERT R; UNDERGRADUATE RESEARCH PARTICIPATION (Y009765); 11 MONTHS \$27,900

NARDO, SEBASTIAN V; UNDERGRADUATE RESEARCH PARTICIPATION (Y009870); 11 MONTHS \$14,890

KOPLIK, BERNARD; UNDERGRADUATE RESEARCH PARTICIPATION (Y009893); 11 MONTHS \$12,720

WEINDLING, JOACHIM E; UNDERGRADUATE RESEARCH PARTICIPATION (Y009901); 11 MONTHS \$18,100

QUEENS COLLEGE

MAZIN, GEORGE; POPULATION DENSITY AND SOCIAL PATHOLOGY IN SELECTED AREAS OF NEW YORK CITY (Y009859); 12 MONTHS \$10,000

RENSELAER POLYTECHNIC INSTITUTE

SCAVIA, DON; PROPOSALS FOR ENVIRONMENTAL MANAGEMENT OF RENSSELAER COUNTY LAKES (Y009811); 12 MONTHS \$19,200

MEDICUS, HEINRICH A; UNDERGRADUATE RESEARCH PARTICIPATION (Y009878); 11 MONTHS \$23,450

RUBENFELD, LESTER; UNDERGRADUATE RESEARCH PARTICIPATION (Y009864); 11 MONTHS \$10,380

ROCHESTER INSTITUTE OF TECHNOLOGY

KRAKOWER, EARL; UNDERGRADUATE RESEARCH PARTICIPATION (Y009884); 11 MONTHS \$7,780

SFIDMORE COLLEGE

LE FURGY, WILLIAM G; UNDERGRADUATE RESEARCH PARTICIPATION (Y009865); 11 MONTHS \$10,970

ST LAWRENCE UNIVERSITY

EFCKSON, J MARK; UNDERGRADUATE RESEARCH PARTICIPATION (Y009761); 11 MONTHS \$7,990

STATE UNIVERSITY AT ALBANY

MADDOW, JANE; COLLECTION AND ANALYSES OF AEROSOLS IN THE ALBANY AREA (Y009655); 12 MONTHS \$24,360

STATE UNIVERSITY AT BINGHAMTON

POMPI, ROBERT L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009866); 11 MONTHS \$5,960

STATE UNIVERSITY AT BUFFALO

GORELICK, KENNETH; THE EFFECTS OF ORGANOMERCURIALS ON THE DEVELOPMENT OF 'DROSOPHILA MELANOGASTER' (Y009863); 12 MONTHS \$10,000

STATE UNIVERSITY AT STONY BROOK

THORPE, JOHN A; UNDERGRADUATE RESEARCH PARTICIPATION (Y009886); 11 MONTHS \$14,490

SYRACUSE UNIVERSITY

TURIAN, RAFFI M; UNDERGRADUATE RESEARCH PARTICIPATION (Y009755); 11 MONTHS \$14,240

DOSANJH, D S; UNDERGRADUATE RESEARCH PARTICIPATION (Y009857); 11 MONTHS \$11,140

SCHENCK, JOHN; UNDERGRADUATE RESEARCH PARTICIPATION (Y010079); 11 MONTHS \$8,660

UNION COLLEGE

POTTER, DONALD I; UNDERGRADUATE RESEARCH PARTICIPATION (Y009868); 11 MONTHS \$7,140

UNIVERSITY OF ROCHESTER

THORNE, JAMES F; THE IRONDEQUOIT CREEK: AN INDIRECT NUTRIENT SOURCE FOR LAKE ONTARIO (Y009803); 12 MONTHS \$22,740

STRAHAN, ROBERT F; UNDERGRADUATE RESEARCH PARTICIPATION (Y009858); 11 MONTHS \$24,230

CARSTENSEN, EDWIN L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009869); 11 MONTHS \$11,210

HEALTH RESEARCH INC-ROSWELL PARK DIVISION

MIRAND, EDWIN A; UNDERGRADUATE RESEARCH PARTICIPATION (Y009839 001); \$3,131

MIRAND, EDWIN A; UNDERGRADUATE RESEARCH PARTICIPATION (Y009811); 11 MONTHS \$36,000

NEW YORK UNIVERSITY-UNIVERSITY HEIGHTS CENTER

SHAW, SUSANN J N; UNDERGRADUATE RESEARCH PARTICIPATION (Y009862); 11 MONTHS \$19,350

NORTH CAROLINA**DUKE UNIVERSITY**

WELLS, RICHARD L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009802); 11 MONTHS \$19,200

WHITE, R A; UNDERGRADUATE RESEARCH PARTICIPATION (Y009870); 11 MONTHS \$4,860

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

JACOBSON, ALVIN L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009788); 11 MONTHS \$18,600

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

REDDEN, ROBERT R; A MODEL OF AIR POLLUTION IN CHARLOTTE-MECKLENBURG (Y009689); 12 MONTHS \$18,480

WAKE FOREST UNIVERSITY

NOWELL, JOHN W; UNDERGRADUATE RESEARCH PARTICIPATION (Y009777); 11 MONTHS \$7,640

NORTH DAKOTA**NORTH DAKOTA STATE UNIVERSITY**

MARICICH, TOM J; UNDERGRADUATE RESEARCH PARTICIPATION (Y009779); 11 MONTHS \$9,890

UNIVERSITY OF NORTH DAKOTA

KARNER, FRANK R; UNDERGRADUATE RESEARCH PARTICIPATION (Y009754); 11 MONTHS \$9,560

BIRTCHEK, BRENT; UNDERGRADUATE RESEARCH PARTICIPATION (Y009804); 11 MONTHS \$7,610

OHIO**ANTIOCH COLLEGE**

TAYLOR, CHARLES E; UNDERGRADUATE RESEARCH PARTICIPATION (Y009884); 11 MONTHS \$7,900

BOWLING GREEN STATE UNIVERSITY

EICHENBERG, DEBORAH L; *THE DISEASE ECOLOGY OF CALIFORNIA ENCEPHALITIS IN NORTHWESTERN OHIO* (Y009814); 12 MONTHS \$17,190
 KINSTLE, THOMAS H; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009971); 11 MONTHS \$8,290

CASE WESTERN RESERVE UNIVERSITY

PIERCE, DAVID R; *SURFACE MINING AND RECLAMATION. FOUR ECOSYSTEMS IN TWO OHIO REGIONS* (Y009607); 13 MONTHS \$20,190
 LANDO, JEROME B; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009833); 11 MONTHS \$17,730

DAVIS, ROBERT P; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009978); 11 MONTHS \$25,730

WALLACE, JOHN F; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009977); 11 MONTHS \$11,560

FORT JR, TOMLINSON; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009973); 11 MONTHS \$9,400

COLLEGE OF WOOSTER

BORDERS JR, CHARLES L; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009971); 11 MONTHS \$8,900

DENISON UNIVERSITY

MICKELSON, MICHAEL E; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009819); 11 MONTHS \$4,040

HEIDELBERG COLLEGE

PEEPLS, MARK E; *STUDENT-ORIGINATED STUDIES* (Y009363); 12 MONTHS \$16,930

HIRAM COLLEGE

WHEELER, DONALD R; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009974); 11 MONTHS \$6,350

JOHN CARROLL UNIVERSITY

CAROME, EDWARD F; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009975); 11 MONTHS \$11,250

KENT STATE UNIVERSITY

RATLIFF, JUDD; *THE EFFECT OF SELECTED METALS ON CONDITIONED ORGANISMS* (Y009566); 12 MONTHS \$14,900

TREICHLER, F ROBERT; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009808); 11 MONTHS \$9,960

MARIETTA COLLEGE

PRINCE, ALBERT; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009970); 11 MONTHS \$7,410

OBERLIN COLLEGE

SCHOONMAKER, RICHARD C; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009738); 11 MONTHS \$9,460

SHERMAN, THOMAS F; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009718); 11 MONTHS \$12,580

YAN ATTA, E LOCHE; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009777); 11 MONTHS \$13,400

TUFTS, ROBERT W; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009977); 11 MONTHS \$4,110

OHIO STATE UNIVERSITY

WELCH, WILLIAM R; *BUILDING MATERIALS FROM RECYCLED GLASS, CERAMICS, PAPER, AND PLASTICS* (Y009532); 12 MONTHS \$9,970

MEEK, DEVON W; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009803); 11 MONTHS \$10,040

MALSPEIS, LOUIS; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009978); 11 MONTHS \$25,080

UNIVERSITY OF DAYTON

BROWN, CHARLES D; *EFFECTS OF TITANIUM DIOXIDE IN BUCKWHEAT PLANTS* (Y009587); 12 MONTHS \$6,630

CHANTELL, CHARLES J; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009979); 11 MONTHS \$13,750

WITTENBERG UNIVERSITY

WESTNEAT, DAVID F; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009980); 11 MONTHS \$5,100

WRIGHT STATE UNIVERSITY

HANSON, HARVEY M; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009981); 11 MONTHS \$7,890

NUSSBAUM, NOEL S; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009582); 11 MONTHS \$4,500

OKLAHOMA**OKLAHOMA CITY UNIVERSITY**

WURTH, MICHAEL J; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009984); 11 MONTHS \$5,870

SOUTHWESTERN STATE COLLEGE

WHALEY, GARRY; *STUDENT-ORIGINATED STUDIES* (Y009584); 12 MONTHS \$13,250

UNIVERSITY OF OKLAHOMA

HARVEY, W LAWRENCE; *STUDENT ORIGINATED STUDIES* (Y00914007); 2 MONTHS \$900

REISS, CHARLES; *ANALYSIS OF THE SPATIAL DIFFUSION OF OKLAHOMA CITY GHETTO AREAS* (Y009609); 12 MONTHS \$17,260

CHRISTMORE, DAVID S; *COMMERCIAL PESTICIDES AND THEIR EFFECTS ON SOIL-LIVING RHIZOBIUM AND AZOTOBACTER* (Y009858); 12 MONTHS \$16,790

RISSE, PAUL G; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009792); 11 MONTHS \$20,140

JERNER, R CRAIG; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009984); 11 MONTHS \$17,600

UNIVERSITY OF TULSA

BROWN, CLARENCE G; *STUDENT-ORIGINATED STUDIES* (Y009378); 12 MONTHS \$19,460

OREGON**LINFIELD COLLEGE**

BOLING, JOHN L; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009983); 11 MONTHS \$6,790

OREGON STATE UNIVERSITY

CARPENTER, STEVE; *EPIPHYTIC LICHENS AS AN INDICATOR OF POLLUTION IN THE WILLAMETTE VALLEY* (Y009848); 12 MONTHS \$8,690

LOVELAND, WALTER; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009986); 11 MONTHS \$12,480

REED COLLEGE

KELLOGG, GARY LEE; *EFFECTS OF CARBON MONOXIDE CONCENTRATIONS ON BEHAVIOR IN RATS* (Y009882); 12 MONTHS \$8,020

HANKINS, DEBORAH; *TRACE ELEMENTS IN FISH AS RELATED TO CONCENTRATIONS IN ENVIRONMENT AND DIET* (Y009830); 12 MONTHS \$12,050

CRONYN, MARSHALL W; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009729); 11 MONTHS \$7,440

SQUIEL, LESLIE H; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009896); 11 MONTHS \$16,320

UNIVERSITY OF OREGON - EUGENE

BATISTA, CARLOS; *IMPACT OF BUILDING LAWS ON HOUSING DESIGN FOR SUB-CULTURAL GROUPS* (Y009881); 12 MONTHS \$9,360

KIMMEL, CHARLES B; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009737); 11 MONTHS \$26,630

KOENIG, THOMAS W; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009776); 11 MONTHS \$10,410

PENNSYLVANIA**BUCKNELL UNIVERSITY**

WINSTEAD, MELDRUM; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009830); 11 MONTHS \$9,920

NICKELSEN, RICHARD P; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009852); 11 MONTHS \$4,000

HARCLERODE, JACK; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009887); 11 MONTHS \$12,360

DICKINSON COLLEGE

MEYER, MARVIN W; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y010029); 11 MONTHS \$10,320

DREXEL UNIVERSITY

SAVERY, C WILLIAM; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009989); 11 MONTHS \$12,530

FRANKLIN AND MARSHALL COLLEGE

FENSTER, DAVID M; *A BIOLOGICAL SURVEY OF CONESTOGA BASIN STREAM POLLUTION* (Y009573); 12 MONTHS \$7,860

BEUTNER, EDWARD C; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009731); 11 MONTHS \$7,450

BROOKSHIRE, KENNETH H; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009901); 11 MONTHS \$16,680

GENEVA COLLEGE

ADAMS, ROY M; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009802); 11 MONTHS \$5,250

HAVERFORD COLLEGE

HUNTER, HOLLAND; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009738); 11 MONTHS \$9,800

JUNIATA COLLEGE

SCHETTLE JR, PAUL D; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009739); 11 MONTHS \$13,410

LAFAYETTE COLLEGE

YOUNG, ROGER K; *THE BUSHKILL WATERSHED - AN ENVIRONMENTAL BASELINE STUDY* (Y009818); 12 MONTHS \$18,600

LEHIGH UNIVERSITY

GIANFORCARO, GREGORY J; *ISOLATION AND REMOVAL OF COLOR-PRODUCING SUBSTANCES FROM A WATER SUPPLY* (Y009883); 12 MONTHS \$9,020

KALNINS, ARTURS; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009860); 11 MONTHS \$13,240

WOOD, JOHN D; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009891); 11 MONTHS \$11,760
 CHEN, WAI-FAH; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009888); 11 MONTHS \$8,230

LOCK HAVEN STATE COLLEGE

KRAMER, ROBERT F; *POPULATION AND DIVERSITY OF LOWER BALD EAGLE CREEK BIOTA* (Y009816); 12 MONTHS \$8,010

MUHLENBERG COLLEGE

SMART, O N RUSSELL; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009745); 11 MONTHS \$10,480

PENNSYLVANIA STATE UNIVERSITY

KNEIB, RONALD T; *CHEMICAL AND BIOLOGICAL DYNAMICS OF STRESSED STREAM SITUATIONS* (Y009566); 12 MONTHS \$13,470

STEIN, ROBERT M; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009866); 11 MONTHS \$11,230

TEMPLE UNIVERSITY

DUBECK, LEROY; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009990); 11 MONTHS \$9,350

UNIVERSITY OF PITTSBURGH

READING, REID R; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009781); 11 MONTHS \$9,340

WASHINGTON AND JEFFERSON COLLEGE

HAGER, BRUCE L; *PHENOL REMOVAL FROM INDUSTRIAL WASTES USING AMBERLITE XAD-4 RESIN AND MICROBIOLOGICAL METHODS* (Y009637); 12 MONTHS \$8,690

FRANKLIN INSTITUTE-BARTOL RESEARCH FOUNDATION

KENT JR, DONALD W; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009851); 11 MONTHS \$10,510

PENNSYLVANIA STATE UNIVERSITY-BEHREND CAMPUS

OKELLY, WILLIAM A; *STREAM ORGANISMS AND THEIR RESPONSES TO ENVIRONMENTAL CHANGE* (Y009611); 12 MONTHS \$10,630

RHODE ISLAND

NONE; OTHER PROGRAM AWARDS (01AWDS); \$2,075

BROWN UNIVERSITY

CARSON, STEVEN R; *EFFECTS OF POLLUTION ON BIOLOGICAL AND PHYSICAL PARAMETERS OF MOUNT HOPE BAY* (Y009608); 12 MONTHS \$18,140

COLE, ROBERT H; *FEASIBILITY STUDY OF FLYWHEEL URBAN VEHICLES* (Y009676); 12 MONTHS \$16,590

ENGEN, TRYGG; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009783); 11 MONTHS \$16,060

CLAPP, LEALYN B; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009830); 11 MONTHS \$18,740

PROVIDENCE COLLEGE

GALKOWSKI, THEODORE T; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009798); 11 MONTHS \$9,770

UNIVERSITY OF RHODE ISLAND

POLK, CHARLES; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009991); 11 MONTHS \$13,540

SOUTH CAROLINA

CLEMSON UNIVERSITY

SNIDER, ERIC H; *WATER POLLUTION IN THE CHATTOGA AND TUGALOO RIVERS* (Y009691); 12 MONTHS \$11,170

FURMAN UNIVERSITY

ARRINGTON JR, CHARLES A; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009787); 11 MONTHS \$8,530

STRATTON, LEWIS P; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009820); 11 MONTHS \$7,520

BRANTLEY, WILLIAM H; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009997); 11 MONTHS \$7,600

UNIVERSITY OF SOUTH CAROLINA

WOODWARD JR, E C; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009860); 11 MONTHS \$6,420

UNIVERSITY OF GEORGIA-SAVANNAH RIVER ECOLOGY LABORATORY

GIBBONS, J WHITFIELD; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009888); 11 MONTHS \$12,820

SOUTH DAKOTA

AUGUSTANA COLLEGE

PRESCOTT, LANSING M; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009992); 11 MONTHS \$9,210

SIOUX FALLS COLLEGE

GIBSON, JERRY D; *CHEMICAL, BIOLOGICAL, AND SOCIOLOGICAL ANALYSES OF THE BIG SIOUX RIVER SYSTEM* (Y009640); 12 MONTHS \$16,380

UNIVERSITY OF SOUTH DAKOTA

DICKHAUT, STEVEN C; *MERCURY CONTAMINANTS IN PEOPLE AND FOOD SUPPLIES IN SOUTH DAKOTA* (Y009870); 12 MONTHS \$11,180

TENNESSEE

FISK UNIVERSITY

JACKSON, EDWARD; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009905); 11 MONTHS \$18,430

OAK RIDGE ASSOCIATED UNIVERSITIES

KYKER, GRANVILLE C; *UNDERGRADUATE RESEARCH PARTICIPATION* (AG00357); 11 MONTHS \$12,550

SOUTHWESTERN AT MEMPHIS

ELLSWORTH, DANIEL LLOYD; *THE UPTAKE OF MERCURY BY LIVING SYSTEMS AND ITS EFFECTS ON THEM* (Y009608); 12 MONTHS \$15,400

MORTIMER, ROBERT G; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y010013); 11 MONTHS \$5,400

TENNESSEE TECHNOLOGICAL UNIVERSITY

SISSON, LEIGHTON E; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009993); 11 MONTHS \$17,870

UNIVERSITY OF TENNESSEE, KNOXVILLE

GRAVES, RONALD LEE; *FEASIBILITY OF AMMONIA AS AN INTERNAL COMBUSTION FUEL* (Y009692); 12 MONTHS \$6,410

SNYDER, W T; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009994); 11 MONTHS \$5,280

JONES, ARTHUR W; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009995); 11 MONTHS \$18,520

VANDERBILT UNIVERSITY

HENDERSHOT, GERRY E; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009796); 11 MONTHS \$13,490

THUNE, LELAND E; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009834); 11 MONTHS \$12,830

TEXAS

ARILENE CHRISTIAN COLLEGE

DAVIS, ALVIE L; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009746); 11 MONTHS \$4,900

AUSTIN COLLEGE

SNIDER, ROBERT L; *IMPACT OF INTERACTIVE TELEVISION ON THE RACIAL ATTITUDES OF SIXTH GRADE STUDENTS* (Y009583); 12 MONTHS \$17,850

NORTH TEXAS STATE UNIVERSITY

SYBERT, J R; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009996); 11 MONTHS \$9,560

RICE UNIVERSITY

GLASS, O P; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009876); 11 MONTHS \$10,740

SAM HOUSTON STATE UNIVERSITY

MCCARLEY, O SCOTT; *STUDENT-ORIGINATED STUDIES* (Y009569); 12 MONTHS \$12,730

TEXAS TECH UNIVERSITY

SMYTH, THOMAS JOT; *SOIL ADSORPTION AND FEEDLOT EFFLUENT QUALITY ON THE TEXAS HIGH PLAINS* (Y009589); 12 MONTHS \$13,730

KRISTIANSEN, MAGNE; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009998); 11 MONTHS \$14,360

TRINITY UNIVERSITY

PLUMMER, B F; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009788); 11 MONTHS \$8,660

UNIV OF TEXAS AT AUSTIN

WADE, CHARLES G; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009807); 11 MONTHS \$19,960

UNIVERSITY OF HOUSTON

BAILEY, JAMES E; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y010010); 11 MONTHS \$10,300

UTAH

BRIGHAM YOUNG UNIVERSITY

KUNZ, PHILLIP R; *UNDERGRADUATE RESEARCH PARTICIPATION* (Y009897); 11 MONTHS \$20,240

UNIVERSITY OF UTAH

MARCHANT, BRUCE D; *FOAM GLASS INSULATION FROM WASTE GLASS* (Y009841); 12 MONTHS \$9,760

WEBER STATE COLLEGE

SHIOZAWA, DENNIS KENJI; INFLUENCES OF BRINE FLY CONTROL PROGRAMS ON ECOSYSTEMS OF GREAT SALT LAKE (Y009391); 12 MONTHS \$9,300

VERMONT

MIDDLEBURY COLLEGE

LEDLIE, DAVID B; UNDERGRADUATE RESEARCH PARTICIPATION (Y009810); 11 MONTHS \$11,040

UNIVERSITY OF VERMONT

SAXBY, WILLIAM R; EFFECTS OF TETRAHYDROCANNABINOL ON BEHAVIOR AND BRAIN FUNCTION (Y009692); 12 MONTHS \$16,670
KUEHNE, MARTIN; UNDERGRADUATE RESEARCH PARTICIPATION (Y009999); 11 MONTHS \$11,680

VIRGINIA

COLLEGE OF WILLIAM AND MARY

GOODWIN, BRUCE K; UNDERGRADUATE RESEARCH PARTICIPATION (Y010019); 11 MONTHS \$6,800

HAMPDEN-SYDNEY COLLEGE

SIPE JR, HERBERT J; UNDERGRADUATE RESEARCH PARTICIPATION (Y009819); 11 MONTHS \$6,960

KIESS, EDWARD M; UNDERGRADUATE RESEARCH PARTICIPATION (Y009836); 11 MONTHS \$2,120

HOLLINS COLLEGE

FLORY, RANDALL K; UNDERGRADUATE RESEARCH PARTICIPATION (Y010000); 11 MONTHS \$7,200

UNIVERSITY OF VIRGINIA

LOVELACE, EUGENE A; UNDERGRADUATE RESEARCH PARTICIPATION (Y009867); 11 MONTHS \$12,610

VIRGINIA COMMONWEALTH UNIVERSITY

TAYLOR, DAVID G; INTERACTIONS OF NITRILOTRIACETIC ACID AND METAL IONS IN NATURAL WATERS (Y009810); 12 MONTHS \$21,390

VIRGINIA POLYTECHNIC INSTITUTE

STEIGERWALD, JOHN; CHILDREN'S RESPONSES TO ENVIRONMENTAL SPACES (Y009870); 12 MONTHS \$9,580

HAWTHORNE, JOHN JULIAN; EFFECTS OF CHEMICAL AND BIOLOGICAL POLLUTANTS ON THE ECOLOGY OF A STREAM (Y009587); 12 MONTHS \$9,500

COMPARIN, ROBERT A; UNDERGRADUATE RESEARCH PARTICIPATION (Y010001); 11 MONTHS \$10,920

WASHINGTON AND LEE UNIVERSITY

WISE, JOHN H; UNDERGRADUATE RESEARCH PARTICIPATION (Y009760); 11 MONTHS \$7,130

WASHINGTON

EVERGREEN STATE COLLEGE

KORMONDY, EDWARD J; RESEARCH ON THE HOOD CANAL (Y009312); 10 MONTHS \$4,908

FOUNDATION FOR GLACIER AND ENVIRONMENTAL RES

MILLER, WAYNARD M; UNDERGRADUATE RESEARCH PARTICIPATION (Y009913); 11 MONTHS \$19,480

UNIVERSITY OF WASHINGTON

COMIS, JOHN G; WATERSHED ECOLOGY (PHASE II) OF COAL AND KELSEY CREEKS, WASHINGTON (Y009531); 12 MONTHS \$18,590

NELSON, WENDEL L; UNDERGRADUATE RESEARCH PARTICIPATION (Y009832); 11 MONTHS \$16,000

WASHINGTON STATE UNIVERSITY

COLLINS JR, RALPH W; MULTIPLE LAND USE PRIORITY-PLANNING FOR LATAH COUNTY, IDAHO (Y009589); 12 MONTHS \$12,180

GARLAND, JOHN K; UNDERGRADUATE RESEARCH PARTICIPATION (Y009710); 11 MONTHS \$13,630

WEST VIRGINIA

WEST VIRGINIA STATE COLLEGE

ADAMS, ALAN M; EFFECTS ON ANIMAL LIFE OF SULFUR AND SELENIUM DIOXIDES (Y009680); 12 MONTHS \$20,160

WEST VIRGINIA UNIVERSITY

KREINIK, DOUGLAS; A STUDY OF AN ACOUSTICAL SLUM CORRIDOR (Y009633); 12 MONTHS \$19,910

BLACKSHAW, G LANSING; UNDERGRADUATE RESEARCH PARTICIPATION (Y010002); 11 MONTHS \$3,310

WHEELING COLLEGE

LONER, CHARLES J; UNDERGRADUATE RESEARCH PARTICIPATION (Y010069); 11 MONTHS \$5,020

WISCONSIN

BELOIT COLLEGE

STENSTROM, RICHARD C; UNDERGRADUATE RESEARCH PARTICIPATION (Y009737); 11 MONTHS \$3,530

DOBSON, DAVID A; UNDERGRADUATE RESEARCH PARTICIPATION (Y010004); 11 MONTHS \$5,610

CARROLL COLLEGE

GOUGH, STEPHEN B; POLLUTION CONTROL OF FARM FEEDLOT RUNOFF THROUGH SOIL PERCOLATION (Y009580); 12 MONTHS \$11,340

MARQUETTE UNIVERSITY

HARSH, HAROLD; POLLUTION PARAMETERS OF THE MILWAUKEE-MENOMONEE RIVER SYSTEM (Y009582); 12 MONTHS \$21,060

RIPON COLLEGE

LITTON JR, JAMES R; EUTROPHICATION OF GREEN LAKE AND LAKE WINNEBAGO (Y009430); 12 MONTHS \$20,640

STOUT STATE UNIVERSITY

BURWELL, MARK; COMPARATIVE ENVIRONMENTS OF TWO NORTHWESTERN WISCONSIN RIVERS (Y009663); 12 MONTHS \$9,490

UNIVERSITY OF WISCONSIN, GREEN BAY

WARPINSKI, JAMES R; AIR POLLUTION AND COMMUNITY HEALTH (Y009813); 12 MONTHS \$9,930

UNIVERSITY OF WISCONSIN, MADISON

PRATT, LESLIE; EFFECTS OF COOLING WATER DISCHARGE ON THE AQUATIC COMMUNITY IN LAKE MONONA (Y009819); 12 MONTHS \$16,840

NEALIS, PERRY M; EFFECTS OF NOISE ON SOCIAL BEHAVIOR AND CORTICOSTERONE LEVELS IN MONKEYS (Y009841); 12 MONTHS \$18,180

CROWE, D W; UNDERGRADUATE RESEARCH PARTICIPATION (Y009900); 11 MONTHS \$14,400

UNIVERSITY OF WISCONSIN, MILWAUKEE

HUBER, CALVIN O; UNDERGRADUATE RESEARCH PARTICIPATION (Y009842); 11 MONTHS \$14,300

CHANG, Y AUSTIN; UNDERGRADUATE RESEARCH PARTICIPATION (Y010003); 11 MONTHS \$5,730

WEISE, CHARLES M; UNDERGRADUATE RESEARCH PARTICIPATION (Y010028); 11 MONTHS \$9,310

WISCONSIN STATE UNIVERSITY, STEVENS POINT

SCHMIDT, STEVEN D; WATER QUALITY AND RECREATION IN LAKE DUBAY AND BIG EAU PLAINE RESERVIOR (Y009361); 12 MONTHS \$16,000

WISCONSIN STATE UNIVERSITY, SUPERIOR

BAHNICK, DONALD A; UNDERGRADUATE RESEARCH PARTICIPATION (Y010006); 11 MONTHS \$7,230

WYOMING

UNIVERSITY OF WYOMING

DEBOER, ANDREW; UNDERGRADUATE RESEARCH PARTICIPATION (Y009909); 11 MONTHS \$8,300

GRADUATE LEVEL

ALABAMA

AUBURN UNIVERSITY

PARKER, W V; GRADUATE TRAINEESHIPS (Z002301); 18 MONTHS \$35,250

UNIVERSITY OF ALABAMA, TUSCALOOSA

SCOTT, CHARLEY; GRADUATE TRAINEESHIPS (Z002302); 18 MONTHS \$17,625

ALASKA

UNIVERSITY OF ALASKA

RAE, K M; GRADUATE TRAINEESHIPS (Z002303); 18 MONTHS \$5,875

ARIZONA

ARIZONA STATE UNIVERSITY

BURKE, W J; GRADUATE TRAINEESHIPS (Z001536 002); \$2,019

BURKE, W J; GRADUATE TRAINEESHIPS (Z002301); 18 MONTHS \$58,760

UNIVERSITY OF ARIZONA

BONNEVILLE, FRANK A; GRADUATE TRAINEESHIPS (Z001537 002); \$5,296

BONNEVILLE, FRANK A; GRADUATE TRAINEESHIPS (Z002303); 18 MONTHS \$99,875

ARKANSAS

UNIVERSITY OF ARKANSAS

HARVEY, AUBREY E; GRADUATE TRAINEESHIPS (Z002306); 18 MONTHS \$17,625

CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY
PINGS, C J; GRADUATE TRAINEESHIPS (Z002307); 18 MONTHS \$141,000

CLAREMONT GRADUATE SCHOOL
RICE, PHILIP M; GRADUATE TRAINEESHIPS (Z002308); 18 MONTHS \$11,750

LOMA LINDA UNIVERSITY
STAUFFER, J PAUL; GRADUATE TRAINEESHIPS (Z001541 001); \$240
STAUFFER, J PAUL; GRADUATE TRAINEESHIPS (Z002309); 18 MONTHS \$5,875

STANFORD UNIVERSITY
MOSES, LINCOLN E; GRADUATE TRAINEESHIPS (Z002310); 18 MONTHS \$258,500

UNITED STATES INTERNATIONAL UNIVERSITY
RUCKER, W RAY; GRADUATE TRAINEESHIPS (Z002311); 18 MONTHS \$5,875

UNIVERSITY OF CALIFORNIA, BERKELEY
PORTIS, ALAN M; CENTER OF EXCELLENCE IN SCIENCE EDUCATION (W002312*); 14 MONTHS \$20,000
ELBERG, SANFORD S; GRADUATE TRAINEESHIPS (Z002313); 18 MONTHS \$282,000

UNIVERSITY OF CALIFORNIA, DAVIS
MARR, ALLEN G; GRADUATE TRAINEESHIPS (Z002314); 18 MONTHS \$16,375

UNIVERSITY OF CALIFORNIA, IRVINE
LENHOFF, H M; GRADUATE TRAINEESHIPS (Z002315); 18 MONTHS \$29,375

UNIVERSITY OF CALIFORNIA, LOS ANGELES
CARLISLE, DONALD; GRADUATE TRAINEESHIPS (Z002316); 18 MONTHS \$158,625

UNIVERSITY OF CALIFORNIA, RIVERSIDE
HEWITT, ROBERT R; GRADUATE TRAINEESHIPS (Z001544 002); \$1,682
HEWITT, ROBERT R; GRADUATE TRAINEESHIPS (Z002318); 18 MONTHS \$52,875

UNIVERSITY OF CALIFORNIA, SAN DIEGO
PEARCE, ROY HARVEY; GRADUATE TRAINEESHIPS (Z002317); 18 MONTHS \$58,750

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
HARPER, HAROLD A; GRADUATE TRAINEESHIPS (Z002318); 18 MONTHS \$5,875

UNIVERSITY OF CALIFORNIA, SANTA BARBARA
COLLINS, ROBERT O; GRADUATE TRAINEESHIPS (Z002319); 18 MONTHS \$47,000

UNIVERSITY OF CALIFORNIA, SANTA CRUZ
WILLIAMSON, STANLEY M; GRADUATE TRAINEESHIPS (Z002320); 18 MONTHS \$5,875

UNIVERSITY OF SANTA CLARA
PARDEN, ROBERT J; GRADUATE TRAINEESHIPS (Z002321); 18 MONTHS \$5,875

UNIVERSITY OF SOUTHERN CALIFORNIA
MAYO, CHARLES G; GRADUATE TRAINEESHIPS (Z002322); 18 MONTHS \$82,250

UNIVERSITY OF THE PACIFIC
SHAO, OTIS H; GRADUATE TRAINEESHIPS (Z001553 001); \$695
CARLTON, PATRICK W; GRADUATE TRAINEESHIPS (Z002323); 18 MONTHS \$5,875

COLORADO

COLORADO SCHOOL OF MINES
JORDAN, A RAYMOND; GRADUATE TRAINEESHIPS (Z001556 001); \$276
JORDAN, A RAYMOND; GRADUATE TRAINEESHIPS (Z002324); 18 MONTHS \$11,750

COLORADO STATE UNIVERSITY
BRAGONIER, WENDELL H; GRADUATE TRAINEESHIPS (Z001557 002); \$2,411
BRAGONIER, WENDELL H; GRADUATE TRAINEESHIPS (Z002325); 18 MONTHS \$58,750

UNIVERSITY OF COLORADO
LOVE, WILLIAM F; GRADUATE TRAINEESHIPS (Z002326); 18 MONTHS \$106,750

UNIVERSITY OF DENVER
EYERS, NATHANIEL H; GRADUATE TRAINEESHIPS (Z002327); 18 MONTHS \$11,750

WESTERN INTERSTATE COMM FOR HIGHER EDUCATION
HULLINGHORST, ROBERT S; RESOURCES DEVELOPMENT INTERNSHIP PROGRAM (Y002328*); 18 MONTHS \$8,935

CONNECTICUT

UNIVERSITY OF CONNECTICUT
MALONE, THOMAS F; GRADUATE TRAINEESHIPS (Z002329); 18 MONTHS \$58,750

WESLEYAN UNIVERSITY
KERR, WILLIAM; GRADUATE TRAINEESHIPS (Z001561 001); \$334
KERR, WILLIAM; GRADUATE TRAINEESHIPS (Z002330); 18 MONTHS \$17,625

YALE UNIVERSITY
JUSTUSSON, J WILLIAM; GRADUATE TRAINEESHIPS (Z002331); 18 MONTHS \$123,375

DELAWARE

UNIVERSITY OF DELAWARE
BERGELIN, O P; GRADUATE TRAINEESHIPS (Z002332); 18 MONTHS \$58,750

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (JAWDS); \$21,458

AMERICAN UNIVERSITY
JOHNSON, JIMMY; CONFERENCE ON THE IMPROVEMENT OF THE CAPABILITIES OF SMALL RESEARCH AND DEVELOPMENT FIRMS IN A DECLINING R & D ENVIRONMENT (R023337); 12 MONTHS \$23,200
BOYNTON, ROBERT P; GRADUATE TRAINEESHIPS (Z001564 001); \$1,135
BOYNTON, ROBERT P; GRADUATE TRAINEESHIPS (Z002332); 18 MONTHS \$11,750

CATHOLIC UNIVERSITY OF AMERICA
OCONNOR, J P; GRADUATE TRAINEESHIPS (Z002333); 18 MONTHS \$47,000

EXOTECH SYSTEMS INC
EHRMAN, LIBERT; TASK ORDER FOR PROCESSING FY 1971 TRAINEE PERSONAL DATA FORMS (C433018); 10 MONTHS \$10,338

GEORGE WASHINGTON UNIVERSITY
BURNS, ARTHUR E; GRADUATE TRAINEESHIPS (Z001566 002); \$2,440
BURNS, ARTHUR E; GRADUATE TRAINEESHIPS (Z002334); 18 MONTHS \$35,250

GEORGETOWN UNIVERSITY
PORRECO, ROCCO E; GRADUATE TRAINEESHIPS (Z001567 002); \$1,176
PORRECO, ROCCO E; GRADUATE TRAINEESHIPS (Z002335); 18 MONTHS \$35,250

HOWARD UNIVERSITY
MILLER, CARROLL L; GRADUATE TRAINEESHIPS (Z001568 001); \$1,168
MILLER, CARROLL L; GRADUATE TRAINEESHIPS (Z002336); 18 MONTHS \$11,750

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL
HALL, WAYNE C; CONTINUAL PROC DATA PROC&CODING F CERTAIN NATL SCI FUNDATN FELLSHIP PROG (C310104 007); 12 MONTHS \$342,304

FLORIDA

FLORIDA STATE UNIVERSITY
LEWIS, THOMAS R; GRADUATE TRAINEESHIPS (Z002337); 18 MONTHS \$76,375

NOVA UNIVERSITY
SCIGLIANO, JOHN A; GRADUATE TRAINEESHIPS (Z002338); 18 MONTHS \$5,875

UNIVERSITY OF FLORIDA
SMITH, ALEX G; GRADUATE TRAINEESHIPS (Z002339); 18 MONTHS \$58,125

UNIVERSITY OF MIAMI
HARRISON, JOHN A; GRADUATE TRAINEESHIPS (Z002340); 18 MONTHS \$35,250

UNIVERSITY OF SOUTH FLORIDA
BRIGGS, JOHN C; GRADUATE TRAINEESHIPS (Z001573 001); \$578
ELLIS JR, R W; GRADUATE TRAINEESHIPS (Z002341); 18 MONTHS \$5,875

GEORGIA

ATLANTA UNIVERSITY
JARRETT, THOMAS D; GRADUATE TRAINEESHIPS (Z001574 001); \$2,042
JARRETT, THOMAS D; GRADUATE TRAINEESHIPS (Z002342); 18 MONTHS \$5,875

EMORY UNIVERSITY

LESTER, CHARLES T; *EXPERIMENTAL PLANNING-RETRAINING PROJECT FOR THE REORIENTATION OF SCIENTISTS AND TECHNOLOGISTS* (Z00234 001); 6 MONTHS \$75,540

LESTER, CHARLES T; *GRADUATE TRAINEESHIPS* (Z00234); 18 MONTHS \$29,375

GEORGIA INSTITUTE OF TECHNOLOGY

WEBB, SAM C; *GRADUATE TRAINEESHIPS* (Z001378 002); \$4,780

RAY, DALE C; *GRADUATE TRAINEESHIPS* (Z002344); 18 MONTHS \$94,000

GEORGIA STATE UNIVERSITY

AHEARN, DONALD G; *GRADUATE TRAINEESHIPS* (Z002345); 18 MONTHS \$5,875

MEDICAL COLLEGE OF GEORGIA

BARD, RAYMOND C; *GRADUATE TRAINEESHIPS* (Z002346); 18 MONTHS \$5,875

UNIVERSITY OF GEORGIA

WHITEHEAD, T H; *GRADUATE TRAINEESHIPS* (Z002347); 18 MONTHS \$52,875

HAWAII**UNIVERSITY OF HAWAII**

ROSENBERG, MORTON M; *GRADUATE TRAINEESHIPS* (Z001380 002); \$4,369

ROSENBERG, MORTON M; *GRADUATE TRAINEESHIPS* (Z002348); 18 MONTHS \$47,000

IDAHO**UNIVERSITY OF IDAHO**

STARK, RONALD W; *GRADUATE TRAINEESHIPS* (Z001381 001); \$5,223

STARK, R W; *GRADUATE TRAINEESHIPS* (Z002349); 18 MONTHS \$17,625

ILLINOIS**DEPAUL UNIVERSITY**

CORTEYOU, WILLIAM T; *GRADUATE TRAINEESHIPS* (Z002350); 18 MONTHS \$5,875

ILLINOIS INSTITUTE OF TECHNOLOGY

GURALNICK, S A; *GRADUATE TRAINEESHIPS* (Z002351); 18 MONTHS \$70,500

ILLINOIS STATE UNIVERSITY

HELGESON, ARLAN C; *GRADUATE TRAINEESHIPS* (Z002352); 18 MONTHS \$11,750

LOYOLA UNIVERSITY

MARIELLA, RAYMOND P; *GRADUATE TRAINEESHIPS* (Z002353); 18 MONTHS \$11,750

NORTHERN ILLINOIS UNIVERSITY

MCILRATH, WAYNE J; *GRADUATE TRAINEESHIPS* (Z002354); 18 MONTHS \$11,750

NORTHWESTERN UNIVERSITY

BAKER, ROBERT H; *GRADUATE TRAINEESHIPS* (Z001387 001); \$2,324

BAKER, ROBERT H; *GRADUATE TRAINEESHIPS* (Z002355); 18 MONTHS \$152,750

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

OLMSTED, JOHN M H; *GRADUATE TRAINEESHIPS* (Z001388 002); \$5,000

OLMSTED, JOHN M H; *GRADUATE TRAINEESHIPS* (Z002356); 18 MONTHS \$35,250

UNIVERSITY OF CHICAGO

CONNELL, CHARLES D; *GRADUATE TRAINEESHIPS* (Z002357); 18 MONTHS \$117,500

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

OTTING, W J; *GRADUATE TRAINEESHIPS* (Z002358); 18 MONTHS \$5,875

UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER

DANIELS, RALPH; *GRADUATE TRAINEESHIPS* (Z002359); 18 MONTHS \$5,875

UNIVERSITY OF ILLINOIS AT URBANA

CLARK, ROGER G; *GRADUATE TRAINEESHIPS* (Z002360); 18 MONTHS \$254,500

INDIANA**INDIANA UNIVERSITY, BLOOMINGTON**

LUDLOW, H GLENN; *GRADUATE TRAINEESHIPS* (Z001394 002); \$291

LUDLOW, H GLENN; *GRADUATE TRAINEESHIPS* (Z002361); 18 MONTHS \$105,750

PURDUE UNIVERSITY

GIBBENS, VICTOR E; *GRADUATE TRAINEESHIPS* (Z001394 001); \$6,840

GIBBENS, VICTOR E; *GRADUATE TRAINEESHIPS* (Z002362); 18 MONTHS \$229,125

UNIVERSITY OF NOTRE DAME

BOTZUM, W A; *GRADUATE TRAINEESHIPS* (Z001395 001); \$2,029

BOTZUM, REV W A; *GRADUATE TRAINEESHIPS* (Z002363); 18 MONTHS \$70,500

IOWA**IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY**

ZAFFARANO, D J; *GRADUATE TRAINEESHIPS* (Z002364); 18 MONTHS \$99,875

UNIVERSITY OF IOWA

SPIESTERSBACH, D C; *GRADUATE TRAINEESHIPS* (Z001397 002); \$4,808

SPIESTERSBACH, D C; *GRADUATE TRAINEESHIPS* (Z002365); 18 MONTHS \$76,375

KANSAS**KANSAS STATE UNIVERSITY**

NOONAN, JOHN P; *GRADUATE TRAINEESHIPS* (Z002366); 18 MONTHS \$58,750

UNIVERSITY OF KANSAS

ELLERMEIER, ROBERT D; *GRADUATE TRAINEESHIPS* (Z002367); 18 MONTHS \$64,625

KENTUCKY**UNIVERSITY OF KENTUCKY**

CABE, CARL; *GRADUATE TRAINEESHIPS* (Z001600 002); \$5,692

CABE, J CARL; *GRADUATE TRAINEESHIPS* (Z002368); 18 MONTHS \$47,000

UNIVERSITY OF LOUISVILLE

ACOATES, GLYNN D; *GRADUATE TRAINEESHIPS* (Z001691 001); \$108

ACOATES, GLYNN D; *GRADUATE TRAINEESHIPS* (Z002369); 18 MONTHS \$17,625

LOUISIANA**LOUISIANA STATE UNIVERSITY MED CTR NEW ORLEANS**

COULSON, ROLAND A; *GRADUATE TRAINEESHIPS* (Z002372); 18 MONTHS \$5,875

LOUISIANA STATE UNIVERSITY, BATON ROUGE

GOODRICH, MAX; *GRADUATE TRAINEESHIPS* (Z001603 002); \$2,680

GOODRICH, MAX; *GRADUATE TRAINEESHIPS* (Z002371); 18 MONTHS \$58,750

LOUISIANA STATE UNIVERSITY, NEW ORLEANS

BOBO, JAMES R; *GRADUATE TRAINEESHIPS* (Z001605 001); \$331

BOBO, JAMES R; *GRADUATE TRAINEESHIPS* (Z002374); 18 MONTHS \$5,875

LOUISIANA TECH UNIVERSITY

HESTER, JAMES L; *GRADUATE TRAINEESHIPS* (Z001602 001); \$965

HESTER, JAMES L; *GRADUATE TRAINEESHIPS* (Z002370); 18 MONTHS \$5,875

LOYOLA UNIVERSITY

DIMAGGIO III, ANTHONY; *GRADUATE TRAINEESHIPS* (Z002373); 18 MONTHS \$5,875

TULANE UNIVERSITY

DEENER, DAVID R; *GRADUATE TRAINEESHIPS* (Z002375); 18 MONTHS \$47,000

MAINE**UNIVERSITY OF MAINE, ORONO**

EGGERT, FRANKLIN P; *GRADUATE TRAINEESHIPS* (Z002376); 18 MONTHS \$11,750

MARYLAND

NONE; *OTHER PROGRAM AWARDS* (67AWDS); \$5,372

JOHNS HOPKINS UNIVERSITY

JOHNSON, KENNETH E; *GRADUATE TRAINEESHIPS* (Z002377); 18 MONTHS \$88,125

UNIVERSITY OF MARYLAND, COLLEGE PARK

JR, MICHAEL J PELCZAR; *GRADUATE TRAINEESHIPS* (Z002378); 18 MONTHS \$70,500

MASSACHUSETTS**BOSTON COLLEGE**

FENEY, WALTER J; *GRADUATE TRAINEESHIPS* (Z002379); 18 MONTHS \$17,625

BOSTON UNIVERSITY

KUBZANSKY, PHILIP E; *GRADUATE TRAINEESHIPS* (Z002380); 18 MONTHS \$29,375

BRANDEIS UNIVERSITY

BLACK, EUGENE C; GRADUATE TRAINEESHIPS (2002381); 18 MONTHS \$41,125

CLARK UNIVERSITY

AHMADJIAN, VERNON; GRADUATE TRAINEESHIPS (2001614 001); \$240
 AHMADJIAN, VERNON; GRADUATE TRAINEESHIPS (2002389); 18 MONTHS \$17,625

HARVARD UNIVERSITY

BISSON, THOMAS K; GRADUATE TRAINEESHIPS (2002383); 18 MONTHS \$106,750

LOWELL TECHNOLOGICAL INSTITUTE

ALEXANDER, EDWARD L; GRADUATE TRAINEESHIPS (2001616 001); \$672

ALEXANDER, EDWARD L; GRADUATE TRAINEESHIPS (2002023 001); \$915

ALEXANDER, EDWARD L; GRADUATE TRAINEESHIPS (2002384); 18 MONTHS \$5,875

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

STONE, RONALD S; GRADUATE TRAINEESHIPS (2002383); 18 MONTHS \$267,875

NORTHEASTERN UNIVERSITY

ESSIGMANN, MARTIN W; GRADUATE TRAINEESHIPS (2002386); 18 MONTHS \$47,000

TUFTS UNIVERSITY

MCCARTHY, KATHRYN A; GRADUATE TRAINEESHIPS (2002387); 18 MONTHS \$29,375

UNIVERSITY OF MASSACHUSETTS, AMHERST

GENTILE, ARTHUR C; GRADUATE TRAINEESHIPS (2001620 002); \$2,140

GENTILE, ARTHUR C; GRADUATE TRAINEESHIPS (2002388); 18 MONTHS \$58,750

WORCESTER POLYTECHNIC INSTITUTE

SHIPMAN, C W; GRADUATE TRAINEESHIPS (2002389); 18 MONTHS \$5,875

MICHIGAN

MICHIGAN STATE UNIVERSITY

MINKEL, C W; GRADUATE TRAINEESHIPS (2002390); 18 MONTHS \$141,000

MICHIGAN TECHNOLOGICAL UNIVERSITY

YERG, DONALD G; GRADUATE TRAINEESHIPS (2001623 001); \$3,833
 YERG, DONALD G; GRADUATE TRAINEESHIPS (2002391); 18 MONTHS \$17,625

UNIVERSITY OF DETROIT

MERLENBACHER, LYLE E; GRADUATE TRAINEESHIPS (2002392); 18 MONTHS \$11,750

UNIVERSITY OF MICHIGAN

HAY, O E; GRADUATE TRAINEESHIPS (2002393); 18 MONTHS \$270,250

WAYNE STATE UNIVERSITY

BURNHAM, FREDERIC B; GRADUATE TRAINEESHIPS (2002394); 18 MONTHS \$58,750

WESTERN MICHIGAN UNIVERSITY

MALLINSON, GEORGE G; GRADUATE TRAINEESHIPS (2002395); 18 MONTHS \$5,875

MINNESOTA

UNIVERSITY OF MINNESOTA

CRAWFORD JR, BRYCE; GRADUATE TRAINEESHIPS (2002396); 18 MONTHS \$164,500

MISSISSIPPI

MISSISSIPPI STATE UNIVERSITY

LOFTON, MARION T; GRADUATE TRAINEESHIPS (2001628 001); \$28
 LOFTON, MARION T; GRADUATE TRAINEESHIPS (2002397); 18 MONTHS \$17,625

UNIVERSITY OF MISSISSIPPI

SAM, JOSEPH; GRADUATE TRAINEESHIPS (2001630 001); \$3,727
 SAM, JOSEPH; GRADUATE TRAINEESHIPS (2002398); 18 MONTHS \$17,625

UNIVERSITY OF SOUTHERN MISSISSIPPI

VAN ALLER, ROBERT T; GRADUATE TRAINEESHIPS (2001631 001); \$2,300

VAN ALLER, R T; GRADUATE TRAINEESHIPS (2002399); 18 MONTHS \$5,875

MISSOURI

ST LOUIS UNIVERSITY

BRENNAN, FRANCIS C (REV); GRADUATE TRAINEESHIPS (2001632 001); \$908

BRENNAN, F C; GRADUATE TRAINEESHIPS (2002400); 18 MONTHS \$17,625

UNIVERSITY OF MISSOURI, COLUMBIA

ANDERSON, DONALD K JR; GRADUATE TRAINEESHIPS (2001633 002); \$3,945

ANDERSON JR, D A; GRADUATE TRAINEESHIPS (2002401); 18 MONTHS \$58,125

UNIVERSITY OF MISSOURI, KANSAS CITY

DALE, WESLEY J; GRADUATE TRAINEESHIPS (2001634 001); \$1,771

DALE, WESLEY J; GRADUATE TRAINEESHIPS (2002402); 18 MONTHS \$5,875

UNIVERSITY OF MISSOURI, ROLLA

MCFARLAND, ROBERT H; GRADUATE TRAINEESHIPS (2001635 002); \$10,231

MCFARLAND, ROBERT H; GRADUATE TRAINEESHIPS (2002403); 18 MONTHS \$41,125

WASHINGTON UNIVERSITY

MORROW, RALPH E; GRADUATE TRAINEESHIPS (2001636 002); \$4,231

MORROW, RALPH E; GRADUATE TRAINEESHIPS (2002404); 18 MONTHS \$58,125

MONTANA

MONTANA STATE UNIVERSITY

GOERING, KENNETH J; GRADUATE TRAINEESHIPS (2001637 002); \$4,667

GOERING, K J; GRADUATE TRAINEESHIPS (2002405); 18 MONTHS \$35,250

UNIVERSITY OF MONTANA

STEWART, JOHN M; GRADUATE TRAINEESHIPS (2001638 001); \$734

STEWART, JOHN M; GRADUATE TRAINEESHIPS (2002406); 18 MONTHS \$5,875

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

DREW, JAMES V; GRADUATE TRAINEESHIPS (2002407); 18 MONTHS \$41,125

NEVADA

UNIVERSITY OF NEVADA, RENO

O'BRIEN, T D; GRADUATE TRAINEESHIPS (2001640 001); \$2,530

O'BRIEN, T D; GRADUATE TRAINEESHIPS (2002408); 18 MONTHS \$11,750

NEW HAMPSHIRE

DARTMOUTH COLLEGE

HORNIG, JAMES F; GRADUATE TRAINEESHIPS (2001641 001); \$1,161

HORNIG, JAMES F; GRADUATE TRAINEESHIPS (2002409); 18 MONTHS \$17,625

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

DREW, WILLIAM H; GRADUATE TRAINEESHIPS (2002410); 18 MONTHS \$35,250

NEW JERSEY

EDUCATIONAL TESTING SERVICE

WILTSEY, ROBERT G; TESTING PROGRAM FOR FY-1973 GRADUATE FELLOWSHIP APPLICANTS (C628000 002); 12 MONTHS \$28,865

NEWARK COLLEGE OF ENGINEERING

BEDROSIAN, ALEX; GRADUATE TRAINEESHIPS (2002411); 18 MONTHS \$5,875

PRINCETON UNIVERSITY

EDENFIELD, EDWARD J; GRADUATE TRAINEESHIPS (2001644 001); \$3,315

EDENFIELD, EDWARD J; GRADUATE TRAINEESHIPS (2002412); 18 MONTHS \$117,500

RUTGERS UNIVERSITY

TORREY, HENRY C; GRADUATE TRAINEESHIPS (2002413); 18 MONTHS \$76,375

SETON HALL UNIVERSITY

CONNOR, JOSEPH G; GRADUATE TRAINEESHIPS (2002414); 18 MONTHS \$5,875

STEVENS INSTITUTE OF TECHNOLOGY

BOOTH, EUGENE T; GRADUATE TRAINEESHIPS (2001647 002); \$1,299

BOOTH, EUGENE T; GRADUATE TRAINEESHIPS (2002415); 18 MONTHS \$41,125

INDIANA UNIVERSITY

BLACK, EUGENE C; GRADUATE TRAINEESHIPS (Z002381); 18 MONTHS \$1,125

LARK UNIVERSITY

AHMADJIAN, VERNON; GRADUATE TRAINEESHIPS (Z001614 001); \$240
AHMADJIAN, VERNON; GRADUATE TRAINEESHIPS (Z002382); 18 MONTHS \$17,625

ARVARD UNIVERSITY

SISSON, THOMAS K; GRADUATE TRAINEESHIPS (Z002383); 18 MONTHS \$6,750

OWELL TECHNOLOGICAL INSTITUTE

ALEXANDER, EDWARD L; GRADUATE TRAINEESHIPS (Z001616 001); 172

ALEXANDER, EDWARD L; GRADUATE TRAINEESHIPS (Z002023 001); 115

ALEXANDER, EDWARD L; GRADUATE TRAINEESHIPS (Z002384); 18 MONTHS \$5,875

ASSACHUSETTS INSTITUTE OF TECHNOLOGY

STONE, RONALD S; GRADUATE TRAINEESHIPS (Z002385); 18 MONTHS \$87,875

ORTHEASTERN UNIVERSITY

ESSIGMANN, MARTIN W; GRADUATE TRAINEESHIPS (Z002386); 18 MONTHS \$47,000

UPTS UNIVERSITY

MCCARTHY, KATHRYN A; GRADUATE TRAINEESHIPS (Z002387); 18 MONTHS \$29,375

IVERSITY OF MASSACHUSETTS, AMHERST

GENTILE, ARTHUR C; GRADUATE TRAINEESHIPS (Z001620 002); \$2,140

GENTILE, ARTHUR C; GRADUATE TRAINEESHIPS (Z002388); 18 MONTHS \$58,750

ORCESTER POLYTECHNIC INSTITUTE

SHIPMAN, C W; GRADUATE TRAINEESHIPS (Z002389); 18 MONTHS \$,875

MICHIGAN**ICHIGAN STATE UNIVERSITY**

MINKEL, C W; GRADUATE TRAINEESHIPS (Z002390); 18 MONTHS \$41,000

ICHIGAN TECHNOLOGICAL UNIVERSITY

YERG, DONALD G; GRADUATE TRAINEESHIPS (Z001623 001); \$3,833

YERG, DONALD G; GRADUATE TRAINEESHIPS (Z002391); 18 MONTHS \$7,625

IVERSITY OF DETROIT

MEHLENBACHER, LYLE E; GRADUATE TRAINEESHIPS (Z002392); 18 MONTHS \$11,750

IVERSITY OF MICHIGAN

HAY, G E; GRADUATE TRAINEESHIPS (Z002393); 18 MONTHS \$270,250

AYNE STATE UNIVERSITY

BURNHAM, FREDERIC B; GRADUATE TRAINEESHIPS (Z002394); 18 MONTHS \$58,750

ESTERN MICHIGAN UNIVERSITY

MALLINSON, GEORGE G; GRADUATE TRAINEESHIPS (Z002395); 18 MONTHS \$5,875

MINNESOTA**IVERSITY OF MINNESOTA**

CRAWFORD JR, BRYCE; GRADUATE TRAINEESHIPS (Z002396); 18 MONTHS \$164,500

MISSISSIPPI**ISSISSIPPI STATE UNIVERSITY**

LOFTON, MARION T; GRADUATE TRAINEESHIPS (Z001629 001); \$28

LOFTON, MARION T; GRADUATE TRAINEESHIPS (Z002397); 18 MONTHS \$,625

IVERSITY OF MISSISSIPPI

SAM, JOSEPH; GRADUATE TRAINEESHIPS (Z001630 001); \$3,727

SAM, JOSEPH; GRADUATE TRAINEESHIPS (Z002398); 18 MONTHS \$,625

IVERSITY OF SOUTHERN MISSISSIPPI

VAN ALLER, ROBERT T; GRADUATE TRAINEESHIPS (Z001631 001); \$300

VAN ALLER, R T; GRADUATE TRAINEESHIPS (Z002399); 18 MONTHS \$,875

MISSOURI**ST LOUIS UNIVERSITY**

BRENNAN, FRANCIS C (REV); GRADUATE TRAINEESHIPS (Z001632 001); \$908

BRENNAN, F C; GRADUATE TRAINEESHIPS (Z002400); 18 MONTHS \$17,625

IVERSITY OF MISSOURI, COLUMBIA

ANDERSON, DONALD K JR; GRADUATE TRAINEESHIPS (Z001633 001); \$3,945

ANDERSON JR, D K; GRADUATE TRAINEESHIPS (Z002401); 18 MONTHS \$88,125

IVERSITY OF MISSOURI, KANSAS CITY

DALE, WESLEY J; GRADUATE TRAINEESHIPS (Z001634 001); \$1,771

DALE, WESLEY J; GRADUATE TRAINEESHIPS (Z002402); 18 MONTHS \$5,875

IVERSITY OF MISSOURI, ROLLA

MC FARLAND, ROBERT H; GRADUATE TRAINEESHIPS (Z001635 001); \$10,231

MC FARLAND, ROBERT H; GRADUATE TRAINEESHIPS (Z002403); 18 MONTHS \$41,125

ASHINGTON UNIVERSITY

MORROW, RALPH E; GRADUATE TRAINEESHIPS (Z001636 002); \$4,231

MORROW, RALPH E; GRADUATE TRAINEESHIPS (Z002404); 18 MONTHS \$88,125

MONTANA**MONTANA STATE UNIVERSITY**

GOERING, KENNETH J; GRADUATE TRAINEESHIPS (Z001637 002); \$4,667

GOERING, K J; GRADUATE TRAINEESHIPS (Z002405); 18 MONTHS \$35,250

IVERSITY OF MONTANA

STEWART, JOHN M; GRADUATE TRAINEESHIPS (Z001638 001); \$734

STEWART, JOHN M; GRADUATE TRAINEESHIPS (Z002406); 18 MONTHS \$5,875

NEBRASKA**IVERSITY OF NEBRASKA AT LINCOLN**

DREW, JAMES V; GRADUATE TRAINEESHIPS (Z002407); 18 MONTHS \$41,125

NEVADA**IVERSITY OF NEVADA, RENO**

O'BRIEN, T D; GRADUATE TRAINEESHIPS (Z001640 001); \$2,530

O'BRIEN, T D; GRADUATE TRAINEESHIPS (Z002408); 18 MONTHS \$11,750

NEW HAMPSHIRE**DARTMOUTH COLLEGE**

HORNIG, JAMES F; GRADUATE TRAINEESHIPS (Z001641 001); \$1,161

HORNIG, JAMES F; GRADUATE TRAINEESHIPS (Z002409); 18 MONTHS \$17,625

IVERSITY OF NEW HAMPSHIRE, DURHAM

DREW, WILLIAM H; GRADUATE TRAINEESHIPS (Z002410); 18 MONTHS \$35,250

NEW JERSEY**EDUCATIONAL TESTING SERVICE**

WILTSEY, ROBERT G; TESTING PROGRAM FOR FY-1973 GRADUATE FELLOWSHIP APPLICANTS (C626000 002); 12 MONTHS \$24,855

NEWARK COLLEGE OF ENGINEERING

BEDPOTSIAN, ALEX; GRADUATE TRAINEESHIPS (Z002411); 18 MONTHS \$5,875

PRINCETON UNIVERSITY

EDENFIELD, EDWARD J; GRADUATE TRAINEESHIPS (Z001644 001); \$3,316

EDENFIELD, EDWARD J; GRADUATE TRAINEESHIPS (Z002412); 18 MONTHS \$117,500

RUTGERS UNIVERSITY

TORREY, HENRY C; GRADUATE TRAINEESHIPS (Z002413); 18 MONTHS \$76,375

SETON HALL UNIVERSITY

CONNOR, JOSEPH G; GRADUATE TRAINEESHIPS (Z002414); 18 MONTHS \$5,875

STEVENS INSTITUTE OF TECHNOLOGY

BOOTH, EUGENE T; GRADUATE TRAINEESHIPS (Z001647 002); \$1,299

BOOTH, EUGENE T; GRADUATE TRAINEESHIPS (Z002415); 18 MONTHS \$41,125

NEW MEXICO

- NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY
WILKENING, MARVIN H; GRADUATE TRAINEESHIPS (2001648 001); \$122
WILKENING, MARVIN H; GRADUATE TRAINEESHIPS (2001646); 18 MONTHS \$5,875
- NEW MEXICO STATE UNIVERSITY
THOMPSON, MERRELL E; GRADUATE TRAINEESHIPS (2001649 000); \$940
THOMPSON, MERRELL E; GRADUATE TRAINEESHIPS (2001647); 18 MONTHS \$35,250
- UNIVERSITY OF NEW MEXICO
KASNER, EDMUND B; GRADUATE TRAINEESHIPS (2001648); 18 MONTHS \$47,000

NEW YORK

- ADELPHI UNIVERSITY
KONIGSBERG, EVELYN; GRADUATE TRAINEESHIPS (2001649); 18 MONTHS \$5,875
- ALFRED UNIVERSITY
BUTLER, LEWIS C; GRADUATE TRAINEESHIPS (2001652 001); \$900
BUTLER, LEWIS C; GRADUATE TRAINEESHIPS (2001650); 18 MONTHS \$5,875
- CITY UNIVERSITY OF NEW YORK SYSTEM OFFICE
ZUPNICK, ELLIOT; GRADUATE TRAINEESHIPS (2001641); 18 MONTHS \$64,625
- CLARKSON COLLEGE OF TECHNOLOGY
DONARUMA, L GUY; GRADUATE TRAINEESHIPS (2001651 001); \$7,392
DONARUMA, L GUY; GRADUATE TRAINEESHIPS (2001647); 18 MONTHS \$29,375
- COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY
WEBB, WILLIAM L; GRADUATE TRAINEESHIPS (2001670 001); \$1,584
WEBB, WILLIAM L; GRADUATE TRAINEESHIPS (2001648); 18 MONTHS \$17,625
- COLUMBIA UNIVERSITY
ROBEY, RICHARD C; GRADUATE TRAINEESHIPS (2001643); 18 MONTHS \$164,500
- COOPER UNION
WALLACE, F A; GRADUATE TRAINEESHIPS (2001644); 18 MONTHS \$5,875
- CORNELL UNIVERSITY
LEURGANS, PAUL J; GRADUATE TRAINEESHIPS (2001625); 18 MONTHS \$182,125
- DOWNSTATE MEDICAL CENTER AT BROOKLYN
BROOKS, CHANDLER MCC; GRADUATE TRAINEESHIPS (2001671 001); \$531
BROOKS, CHANDLER MCC; GRADUATE TRAINEESHIPS (2001649); 18 MONTHS \$5,875
- FORDHAM UNIVERSITY
FINLAY, JAMES C; GRADUATE TRAINEESHIPS (2001646); 18 MONTHS \$17,525
- NEW SCHOOL FOR SOCIAL RESEARCH
GREENBAUM, JOSEPH J; GRADUATE TRAINEESHIPS (2001647); 18 MONTHS \$11,750
- NEW YORK MEDICAL COLLEGE
TABACHNICK, MILTON; GRADUATE TRAINEESHIPS (2001648); 18 MONTHS \$5,875
- NEW YORK UNIVERSITY
CHUSID, MARTIN; GRADUATE TRAINEESHIPS (2001649); 18 MONTHS \$123,375
- POLYTECHNIC INSTITUTE OF BROOKLYN
GIORDANO, A B; GRADUATE TRAINEESHIPS (2001650); 18 MONTHS \$82,250
- RENSSELAER POLYTECHNIC INSTITUTE
WIBERLEY, STEPHEN E; GRADUATE TRAINEESHIPS (2001641); 18 MONTHS \$75,875
- ROCKEFELLER UNIVERSITY
CONNELLY, CLARENCE M; GRADUATE TRAINEESHIPS (2001664 001); \$40
CONNELLY, CLARENCE M; GRADUATE TRAINEESHIPS (2001642); 18 MONTHS \$5,875
- ST BONAVENTURE UNIVERSITY
ANDERSON, KENNETH E; GRADUATE TRAINEESHIPS (2001643); 18 MONTHS \$5,875

ST JOHN'S UNIVERSITY

- MEDICI, PAUL T; GRADUATE TRAINEESHIPS (2001644); 18 MONTHS \$11,750
- STATE UNIVERSITY AT ALBANY
SAIMOND, PAUL A; GRADUATE TRAINEESHIPS (2001667 001); \$4,268
SALKEVER, LOUIS R; GRADUATE TRAINEESHIPS (2001643); 18 MONTHS \$5,875
- STATE UNIVERSITY AT BINGHAMTON
HUNTER, HUGH E; GRADUATE TRAINEESHIPS (2001668 001); \$1,784
HALL, WAYNE C; GRADUATE TRAINEESHIPS (2001646); 18 MONTHS \$5,875
- STATE UNIVERSITY AT BUFFALO
HOLT, ANDREW W; GRADUATE TRAINEESHIPS (2001669 000); \$10,288
HOLT, ANDREW W; GRADUATE TRAINEESHIPS (2001647); 18 MONTHS \$70,500

STATE UNIVERSITY AT STONY BROOK

- WEISINGER, HERBERT; GRADUATE TRAINEESHIPS (2001672 000); \$1,584
WEISINGER, HERBERT; GRADUATE TRAINEESHIPS (2001640); 18 MONTHS \$35,250

SYRACUSE UNIVERSITY

- HOUGH, W HOWARD; GRADUATE TRAINEESHIPS (2001645); 18 MONTHS \$88,125

UNION COLLEGE

- PALMER, J D; GRADUATE TRAINEESHIPS (2001675 001); \$102

UNION COLLEGE AND UNIVERSITY SYSTEM OFFICE

- WEIFENBACH, WILLIAM; GRADUATE TRAINEESHIPS (2001644); 18 MONTHS \$5,875

UNIVERSITY OF ROCHESTER

- SPRAGO, S D S; GRADUATE TRAINEESHIPS (2001676 000); \$2,901
SPRAGO, S D S; GRADUATE TRAINEESHIPS (2001641); 18 MONTHS \$88,125

UPSTATE MEDICAL CENTER AT SYRACUSE

- JACOBS, ROSS D; GRADUATE TRAINEESHIPS (2001641); 18 MONTHS \$5,875

YESHIVA UNIVERSITY

- GITTLER, JOSEPH B; GRADUATE TRAINEESHIPS (2001644); 18 MONTHS \$17,625

NORTH CAROLINA

DUKE UNIVERSITY

- HARMAN, C M; GRADUATE TRAINEESHIPS (2001646); 18 MONTHS \$58,760

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

- PETERSON, WALTER J; GRADUATE TRAINEESHIPS (2001679 000); \$976
PETERSON, WALTER J; GRADUATE TRAINEESHIPS (2001647); 18 MONTHS \$99,875

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

- FLORA, JOSEPH M; GRADUATE TRAINEESHIPS (2001680 000); \$6,099
FLORA, JOSEPH M; GRADUATE TRAINEESHIPS (2001648); 18 MONTHS \$78,375

WAKE FOREST UNIVERSITY

- STROUPE, HENRY S; GRADUATE TRAINEESHIPS (2001649); 18 MONTHS \$17,625

NORTH DAKOTA

NORTH DAKOTA STATE UNIVERSITY

- SMITH, GLENN S; GRADUATE TRAINEESHIPS (2001650); 18 MONTHS \$11,750

UNIVERSITY OF NORTH DAKOTA

- JOHNSON, A WILLIAM; GRADUATE TRAINEESHIPS (2001683 001); \$3,547
JOHNSON, A WILLIAM; GRADUATE TRAINEESHIPS (2001651); 18 MONTHS \$17,625

OHIO

BOWLING GREEN STATE UNIVERSITY

- MARSO, RONALD N; GRADUATE TRAINEESHIPS (2001684 001); \$945
MARSO, RON; GRADUATE TRAINEESHIPS (2001649); 18 MONTHS \$11,750

CASE WESTERN RESERVE UNIVERSITY

- HURLEY, FRANK H; GRADUATE TRAINEESHIPS (2001645 001); \$6,298
HURLEY, FRANK H; GRADUATE TRAINEESHIPS (2001643); 18 MONTHS \$117,500

XENT STATE UNIVERSITY

- WHITE, JOHN; GRADUATE TRAINEESHIPS (2001644); 18 MONTHS \$17,625

MIAMI UNIVERSITY

WOLVERTON, ROBERT E; GRADUATE TRAINEESHIPS (2002435); 18 MONTHS \$5,875

OHIO STATE UNIVERSITY

ROADEN, ARLISS L; GRADUATE TRAINEESHIPS (2002436); 18 MONTHS \$152,760

OHIO UNIVERSITY

COHN, NORMAN S; GRADUATE TRAINEESHIPS (2001889 001); \$311
COHN, NORMAN S; GRADUATE TRAINEESHIPS (2002437); 18 MONTHS \$17,625

UNIVERSITY OF AKRON

RZASA, MICHAEL J; GRADUATE TRAINEESHIPS (2002438); 18 MONTHS \$5,875

UNIVERSITY OF CINCINNATI

WESSEL, ROBERT H; GRADUATE TRAINEESHIPS (2001891 002); \$455
WESSEL, ROBERT H; GRADUATE TRAINEESHIPS (2002439); 18 MONTHS \$47,000

UNIVERSITY OF DAYTON

STANDER, JOSEPH W; GRADUATE TRAINEESHIPS (2002460); 18 MONTHS \$5,875

UNIVERSITY OF TOLEDO

TURIN, JOHN J; GRADUATE TRAINEESHIPS (2001893 001); \$2,428
TURIN, JOHN J; GRADUATE TRAINEESHIPS (2002461); 18 MONTHS \$5,875

OKLAHOMA**OKLAHOMA STATE UNIVERSITY**

DURHAM, NORMAN N; GRADUATE TRAINEESHIPS (2001894 002); \$11,440

UNIVERSITY OF OKLAHOMA

CRIM, ED F JR; GRADUATE TRAINEESHIPS (2001895 002); \$5,536
CRIM JR, ED F; GRADUATE TRAINEESHIPS (2002462); 18 MONTHS \$58,750

OKLAHOMA STATE UNIVERSITY-AGRICULTURAL EXPERIMENT

STATION
DURHAM, NORMAN N; GRADUATE TRAINEESHIPS (2002462); 18 MONTHS \$64,625

OREGON**OREGON GRADUATE CENTER FOR STUDY & RESEARCH**

SCOTT, ARTHUR F; GRADUATE TRAINEESHIPS (2001896 001); \$880
SCOTT, ARTHUR F; GRADUATE TRAINEESHIPS (2002464); 18 MONTHS \$5,875

OREGON STATE UNIVERSITY

HANSEN, HENRY P; GRADUATE TRAINEESHIPS (2001897 002); \$13,552
BOND, CARL; GRADUATE TRAINEESHIPS (2002465); 18 MONTHS \$58,750

PORTLAND STATE UNIVERSITY

HARRIS, J KENNETH; GRADUATE TRAINEESHIPS (2001898 001); \$471
CLARK, DAVID T; GRADUATE TRAINEESHIPS (2002466); 18 MONTHS \$5,875

UNIVERSITY OF OREGON - EUGENE

FISK, CALVIN W; GRADUATE TRAINEESHIPS (2001899 002); \$6,209
FISK, CALVIN W; GRADUATE TRAINEESHIPS (2002467); 18 MONTHS \$52,875

UNIVERSITY OF PORTLAND

KEHOE, J A; GRADUATE TRAINEESHIPS (2001900 001); \$2,240
OBRIEN, MICHAEL G; GRADUATE TRAINEESHIPS (2002468); 18 MONTHS \$5,875

PENNSYLVANIA**BRYN MAWR COLLEGE**

FOSTER, ELIZABETH R; GRADUATE TRAINEESHIPS (2002469); 18 MONTHS \$5,875

CARNEGIE-MELLON UNIVERSITY

SCHATZ, EDWARD R; GRADUATE TRAINEESHIPS (2002470); 18 MONTHS \$99,875

DREXEL UNIVERSITY

WITZELL, O W; GRADUATE TRAINEESHIPS (2001903 001); \$1,476
WITZELL, O W; GRADUATE TRAINEESHIPS (2002471); 18 MONTHS \$11,625

DUQUESNE UNIVERSITY

GROSS, FRANZ B; GRADUATE TRAINEESHIPS (2001904 001); \$836
GROSS, FRANZ B; GRADUATE TRAINEESHIPS (2002472); 18 MONTHS \$5,875

HAHNEMANN MEDICAL COLLEGE AND HOSPITAL

BONDI, A; GRADUATE TRAINEESHIPS (2002473); 18 MONTHS \$5,875

LEHIGH UNIVERSITY

STOUT, ROBERT D; GRADUATE TRAINEESHIPS (2002475); 18 MONTHS \$52,875

MEDICAL COLLEGE OF PENNSYLVANIA

GOLDMAN, DAVID E; GRADUATE TRAINEESHIPS (2002476); 18 MONTHS \$5,875

PENNSYLVANIA STATE UNIVERSITY

HOWELL JR, B F; GRADUATE TRAINEESHIPS (2002477); 18 MONTHS \$158,625

PHILADELPHIA COLLEGE OF PHARMACY AND SCIENCE

REBER, LOUIS A; GRADUATE TRAINEESHIPS (2001905 001); \$822
REBER, LOUIS A; GRADUATE TRAINEESHIPS (2002478); 18 MONTHS \$5,875

TEMPLE UNIVERSITY

EBERSOLE, MARK C; GRADUATE TRAINEESHIPS (2002479); 18 MONTHS \$35,250

THOMAS JEFFERSON UNIVERSITY HOSPITAL

BALDRIDGE, ROBERT C; GRADUATE TRAINEESHIPS (2002474); 18 MONTHS \$5,875

UNIVERSITY OF PENNSYLVANIA

OKANE, D J; GRADUATE TRAINEESHIPS (2002480); 18 MONTHS \$135,125

UNIVERSITY OF PITTSBURGH

MCCOY, R H; GRADUATE TRAINEESHIPS (2001912 002); \$9,918
MCCOY, R H; GRADUATE TRAINEESHIPS (2002481); 18 MONTHS \$76,375

VILLANOVA UNIVERSITY

BUFORD, ALBERT H; GRADUATE TRAINEESHIPS (2002482); 18 MONTHS \$5,875

RHODE ISLAND**BROWN UNIVERSITY**

BRENNAN, MICHAEL J; GRADUATE TRAINEESHIPS (2002483); 18 MONTHS \$76,375

PROVIDENCE COLLEGE

GALKOWSKI, THEODORE T; GRADUATE TRAINEESHIPS (2002484); 18 MONTHS \$5,875

UNIVERSITY OF RHODE ISLAND

MICHEL, ALOYS A; GRADUATE TRAINEESHIPS (2002485); 18 MONTHS \$17,625

SOUTH CAROLINA**CLEMSON UNIVERSITY**

SCHWARTZ, A E; GRADUATE TRAINEESHIPS (2001914 002); \$2,659
SCHWARTZ, A E; GRADUATE TRAINEESHIPS (2002486); 18 MONTHS \$47,000

MEDICAL UNIVERSITY OF SOUTH CAROLINA

KINARD, F W; GRADUATE TRAINEESHIPS (2001919 001); \$99
KINARD, F W; GRADUATE TRAINEESHIPS (2002487); 18 MONTHS \$5,875

UNIVERSITY OF SOUTH CAROLINA

DAVIS, H W; GRADUATE TRAINEESHIPS (2002488); 18 MONTHS \$17,625

SOUTH DAKOTA**SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY**

GRIES, JOHN PAUL; GRADUATE TRAINEESHIPS (2001921 001); \$167
GRIES, J P; GRADUATE TRAINEESHIPS (2002489); 18 MONTHS \$5,875

SOUTH DAKOTA STATE UNIVERSITY

BAILEY, H S; GRADUATE TRAINEESHIPS (2001922 001); \$919
BAILEY, H S; GRADUATE TRAINEESHIPS (2002490); 18 MONTHS \$17,625

UNIVERSITY OF SOUTH DAKOTA

COBB, HENRY V; GRADUATE TRAINEESHIPS (2001923 001); \$1,937
COBB, HENRY V; GRADUATE TRAINEESHIPS (2002491); 18 MONTHS \$11,750

TENNESSEE**GEORGE PEABODY COLLEGE FOR TEACHERS**

TOMLINSON, GUS; GRADUATE TRAINEESHIPS (2002492); 18 MONTHS \$5,875

MEMPHIS STATE UNIVERSITY

RICHARDSON, JOHN W; GRADUATE TRAINEESHIPS (2001925 001); \$176
RICHARDSON, JOHN W; GRADUATE TRAINEESHIPS (2002493); 18 MONTHS \$5,875

UNIVERSITY OF TENNESSEE MED UNITS AT MEMPHIS

ALDEN, ROLAND H; GRADUATE TRAINEESHIPS (2001927 001); \$825
ALDEN, ROLAND H; GRADUATE TRAINEESHIPS (2002495); 18 MONTHS \$5,875

UNIVERSITY OF TENNESSEE, KNOXVILLE

SMITH, HILTON A; GRADUATE TRAINEESHIPS (2001926 002); \$1,343

SMITH, HILTON A; GRADUATE TRAINEESHIPS (2004494); 18 MONTHS \$16,378
 VANDERBILT UNIVERSITY
 THUNE, LELAND E; GRADUATE TRAINEESHIPS (2001788 004); \$5,243
 THUNE, LELAND E; GRADUATE TRAINEESHIPS (2004496); 18 MONTHS \$58,750

TEXAS

BAYLOR COLLEGE OF MEDICINE
 MELNICK, JOSEPH L; GRADUATE TRAINEESHIPS (2004488); 18 MONTHS \$5,875
 BAYLOR UNIVERSITY
 TOLAND, WILLIAM G; GRADUATE TRAINEESHIPS (2001789 001); \$2,038
 TOLAND, WILLIAM G; GRADUATE TRAINEESHIPS (2004497); 18 MONTHS \$5,875
 NORTH TEXAS STATE UNIVERSITY
 TOULOUSE, ROBERT B; GRADUATE TRAINEESHIPS (2001781 001); \$665
 TOULOUSE, ROBERT B; GRADUATE TRAINEESHIPS (2004499); 18 MONTHS \$11,760
 RICE UNIVERSITY
 RICHTER, G H; GRADUATE TRAINEESHIPS (2004500); 18 MONTHS \$64,625
 SOUTHERN METHODIST UNIVERSITY
 BROOKS, JAMES E; GRADUATE TRAINEESHIPS (2004501); 18 MONTHS \$35,250
 TEXAS A & M UNIVERSITY
 KUNZE, GEORGE W; GRADUATE TRAINEESHIPS (2001784 004); \$5,606
 KUNZE, GEORGE W; GRADUATE TRAINEESHIPS (2004504); 18 MONTHS \$58,750
 TEXAS CHRISTIAN UNIVERSITY
 REUTER, FRANK T; GRADUATE TRAINEESHIPS (2001783 001); \$400
 REUTER, FRANK T; GRADUATE TRAINEESHIPS (2004505); 18 MONTHS \$5,875
 TEXAS TECH UNIVERSITY
 AINSWORTH, LEN; GRADUATE TRAINEESHIPS (2004504); 18 MONTHS \$17,625
 TEXAS WOMAN'S UNIVERSITY
 SMITH, A A; GRADUATE TRAINEESHIPS (2001787 001); \$227
 SMITH, A A; GRADUATE TRAINEESHIPS (2004505); 18 MONTHS \$5,875
 UNIV OF TEXAS AT ARLINGTON
 BAKER, W A; GRADUATE TRAINEESHIPS (2004507); 18 MONTHS \$5,875
 UNIV OF TEXAS AT AUSTIN
 ELLISON, FRED F; GRADUATE TRAINEESHIPS (2001740 002); \$9,612
 ELLISON, FRED; GRADUATE TRAINEESHIPS (2004508); 18 MONTHS \$152,750
 UNIVERSITY OF HOUSTON
 BUNN, RONALD F; GRADUATE TRAINEESHIPS (2001788 002); \$4,836
 JAMESON, DAVID L; GRADUATE TRAINEESHIPS (2004506); 18 MONTHS \$35,250

UTAH

BRIGHAM YOUNG UNIVERSITY
 RIDDLE, CHAUNCEY C; GRADUATE TRAINEESHIPS (2001781 001); \$9,847
 RIDDLE, CHAUNCEY C; GRADUATE TRAINEESHIPS (2004508); 18 MONTHS \$17,625
 UNIVERSITY OF UTAH
 MCMURRIN, STERLING M; GRADUATE TRAINEESHIPS (2001742 002); \$13,398
 MCMURRIN, STERLING M; GRADUATE TRAINEESHIPS (2004510); 18 MONTHS \$70,600
 UTAH STATE UNIVERSITY
 GARDNER, ELDON J; GRADUATE TRAINEESHIPS (2001742 002); \$14,066
 GARDNER, ELDON J; GRADUATE TRAINEESHIPS (2004511); 18 MONTHS \$35,250

VERMONT

UNIVERSITY OF VERMONT
 MACMILLAN, WILLIAM H; GRADUATE TRAINEESHIPS (2001744 001); \$963
 JOHNSTONE, DONALD B; GRADUATE TRAINEESHIPS (2004512); 18 MONTHS \$17,625

VIRGINIA

NONE; OTHER PROGRAM AWARDS (0LAWDS); \$1,279

COLLEGE OF WILLIAM AND MARY
 SELBY, JOHN E; GRADUATE TRAINEESHIPS (2004513); 18 MONTHS \$17,625
 UNIVERSITY OF VIRGINIA
 WHITEHEAD, W D; GRADUATE TRAINEESHIPS (2004515); 18 MONTHS \$58,750
 VIRGINIA POLYTECHNIC INSTITUTE
 BULL, FRED W; GRADUATE TRAINEESHIPS (2004516); 18 MONTHS \$58,750
 VIRGINIA COMMONWEALTH UNIVERSITY-HEALTH SCIENCES DIVISION
 WATTS, DANIEL T; GRADUATE TRAINEESHIPS (2004514); 18 MONTHS \$5,875

WASHINGTON

UNIVERSITY OF WASHINGTON
 MCCARTHY, JOSEPH L; GRADUATE TRAINEESHIPS (2001749 002); \$14,711
 MCCARTHY, JOSEPH L; GRADUATE TRAINEESHIPS (2004517); 18 MONTHS \$164,800
 WASHINGTON STATE UNIVERSITY
 NYMAN, C J; GRADUATE TRAINEESHIPS (2004518); 18 MONTHS \$47,000

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY
 LUDLUM, JOHN C; GRADUATE TRAINEESHIPS (2004519); 18 MONTHS \$35,250

WISCONSIN

INSTITUTE OF PAPER CHEMISTRY
 MILLER, ARILD J; GRADUATE TRAINEESHIPS (2004520); 18 MONTHS \$5,875
 MARQUETTE UNIVERSITY
 QUADE, QUENTIN L; GRADUATE TRAINEESHIPS (2001753 001); \$2,181
 QUADE, QUENTIN L; GRADUATE TRAINEESHIPS (2004521); 18 MONTHS \$17,625
 UNIVERSITY OF WISCONSIN, MADISON
 BOCK, ROBERT M; GRADUATE TRAINEESHIPS (2001754 002); \$15,426
 BOCK, ROBERT M; GRADUATE TRAINEESHIPS (2004522); 18 MONTHS \$211,500
 UNIVERSITY OF WISCONSIN, MILWAUKEE
 FENSKE, RUSSELL W; GRADUATE TRAINEESHIPS (2001755 002); \$5,358
 FENSKE, RUSSELL W; GRADUATE TRAINEESHIPS (2004523); 18 MONTHS \$29,375

WYOMING

UNIVERSITY OF WYOMING
 TICCOLLOCH, R J; GRADUATE TRAINEESHIPS (2001758 001); \$1,304
 BRUCE, ROBERT H; GRADUATE TRAINEESHIPS (2004524); 18 MONTHS \$17,625

INSTRUCTIONAL PERSONNEL
DEVELOPMENT

PRE-COLLEGE LEVEL

ALABAMA

AUBURN UNIVERSITY
 BUTZ, R K; SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006845); 10 MONTHS \$56,764
 MOBILE COLLEGE
 SMITH, GEORGE A; IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007390); 19 MONTHS \$8,125
 TUSKEGEE INSTITUTE
 KOONS, LAWRENCE F; SUMMER INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS (W006891); 10 MONTHS \$38,220
 UNIVERSITY OF ALABAMA IN BIRMINGHAM
 VAUGHAN, L O; IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007381); 19 MONTHS \$15,125
 SETTINE, ROBERT L; IN-SERVICE INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS (W007477); 10 MONTHS \$12,939
 UNIVERSITY OF SOUTH ALABAMA
 BJORK, DAVID M; IN-SERVICE INSTITUTE IN MACOS SOCIAL SCIENCES CURRICULUM DEVELOPMENT FOR SECONDARY SCHOOL TEACHERS (W007474); 19 MONTHS \$12,115

ALASKA

UNIVERSITY OF ALASKA

STICKNEY, ROLAND F; *IN-SERVICE INSTITUTE IN ENVIRONMENTAL SCIENCE CURRICULUM STUDY FOR SECONDARY SCHOOL TEACHERS* (W007413); 19 MONTHS \$4,410

ARIZONA

ARIZONA STATE UNIVERSITY

RAWLS, WILLIAM B; *IN-SERVICE INSTITUTE IN MECHANICS FOR SECONDARY SCHOOL TEACHERS* (W007484); 19 MONTHS \$10,452

NORTHERN ARIZONA UNIVERSITY

BEUS, STANLEY S; *SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006982); 10 MONTHS \$17,515

UNIVERSITY OF ARIZONA

STEINBRENNER, ARTHUR H; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006899); 10 MONTHS \$74,165

SEELY, MILLARD G; *SUMMER INSTITUTE IN MULTIPLE FIELDS FOR SECONDARY SCHOOL TEACHERS* (W006919); 10 MONTHS \$21,125

HOSHAU, ROBERT W; *IN-SERVICE INSTITUTE IN SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007448); 19 MONTHS \$20,847

STEINBRENNER, ARTHUR H; *IN-SERVICE INSTITUTE IN COMPUTER MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007442); 19 MONTHS \$7,921

ARKANSAS

UNIVERSITY OF ARKANSAS

ORTON, WILLIAM R; *COMPREHENSIVE PROGRAM FOR SECONDARY SCHOOL TEACHERS OF MATHEMATICS* (W007414); 23 MONTHS \$200,119

ORTON, WILLIAM R; *COMPREHENSIVE PROGRAM FOR SECONDARY SCHOOL TEACHERS OF MATHEMATICS* (W007414 001); 12 MONTHS \$228,457

UNIVERSITY OF ARKANSAS-UNIVERSITY OF ARKANSAS AT

MONTICELLO

GUENTER, JOE M; *SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006944); 10 MONTHS \$11,591

CALIFORNIA

CALIFORNIA STATE COLLEGE AT SAN BERNARDINO

STANTON, GORDON E; *IN-SERVICE INSTITUTE IN SOCIOLOGY AND SOCIAL STUDIES FOR SECONDARY SCHOOL TEACHERS* (W007496); 19 MONTHS \$3,611

CALIFORNIA STATE COLLEGE AT SONOMA

BRUMBAUGH, JOE H; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006874); 10 MONTHS \$59,038

DUNCAN, DONALD G; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007495); 19 MONTHS \$3,557

CALIFORNIA STATE UNIVERSITY, FRESNO

LABARRE JR, ANTHONY E; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006951); 10 MONTHS \$46,840

LYLES JR, SAMUEL P; *IN-SERVICE INSTITUTE IN PHYSICAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007455); 19 MONTHS \$3,090

CALIFORNIA STATE UNIVERSITY, FULLERTON

TURNER, GEORGE C; *1971-72 ACADEMIC YEAR INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS AND TEACHER-INTERNS* (W005851 001); \$21,500

TURNER, GEORGE C; *ACADEMIC YEAR INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS AND TEACHER-INTERNS* (W007063); 24 MONTHS \$50,785

TURNER, GEORGE C; *IN SERVICE INSTITUTE IN HUMAN ECOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007412); 19 MONTHS \$10,467

TURNER, GEORGE C; *COMPREHENSIVE URBAN SCIENCE INTERN TEACHING PROJECT* (W007625); 29 MONTHS \$421,140

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

COSTA, ARTHUR L; *IN-SERVICE INSTITUTE IN SOCIAL SCIENCES FOR SECONDARY SCHOOL TEACHERS* (W007500); 8 MONTHS \$17,071

CALIFORNIA STATE UNIVERSITY, SAN DIEGO

SMITH JR, LOUIS E; *1971 SUMMER INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006112 001); \$1,407

BECKER, GERALD A; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006874); 10 MONTHS \$58,256

DESSEL, NORMAN F; *SUMMER INSTITUTE IN PROJECT PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W006881); 10 MONTHS \$59,072

SMITH JR, LOUIS E; *SUMMER INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006995); 10 MONTHS \$67,967

BECKER, GERALD A; *ACADEMIC YEAR INSTITUTE IN MATHEMATICS FOR EXPERIENCED AND INTERN SECONDARY SCHOOL TEACHERS* (W007060); 24 MONTHS \$55,976

WALLACE, WILLIAM J; *IN-SERVICE INSTITUTE IN OCEANOGRAPHY FOR SECONDARY SCHOOL TEACHERS* (W007430); 19 MONTHS \$7,783

CALIFORNIA STATE UNIVERSITY, SAN FRANCISCO

SULLIVAN, RAYMOND; *IN-SERVICE INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007413); 19 MONTHS \$14,928

CALIFORNIA STATE UNIVERSITY, SAN JOSE

PRUITT, ROBERT; *COMPREHENSIVE PROGRAM FOR SECONDARY SCHOOL TEACHERS OF MATHEMATICS* (W006347 001); 12 MONTHS \$279,837

MINGS, TURLEY R; *SUMMER INSTITUTE IN ECONOMICS FOR SECONDARY SCHOOL TEACHERS* (W007016); 10 MONTHS \$32,835

CRAIG, JAMES M; *IN-SERVICE INSTITUTE IN GENERAL MICROBIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007410); 19 MONTHS \$12,853

CRAIG, JAMES M; *IN-SERVICE INSTITUTE IN GENERAL MICROBIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007410 001); \$3,131

BEARD, JEAN; *IN-SERVICE INSTITUTE IN ISCS STRATEGY AND EXPERIENCES FOR SECONDARY SCHOOL TEACHERS* (W007488); 19 MONTHS \$12,586

BEARD, JEAN; *IN-SERVICE INSTITUTE IN ISCS STRATEGY AND EXPERIENCES FOR SECONDARY SCHOOL TEACHERS* (W007488 001); \$2,052

STANFORD UNIVERSITY

BACON, HAROLD M; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006890); 10 MONTHS \$69,374

UNIVERSITY OF CALIFORNIA, BERKELEY

WHINNERY, JOHN R; *IN-SERVICE INSTITUTE IN ENGINEERING CONCEPTS CURRICULUM PROJECT FOR SECONDARY SCHOOL TEACHERS* (W006803); 13 MONTHS \$16,952

KNIGHT, C ARTHUR; *SUMMER INSTITUTE IN MOLECULAR BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006833); 10 MONTHS \$64,070

CRAWFORD, FRANK; *SUMMER INSTITUTE IN TEACHER INITIATED PROJECTS FOR SECONDARY SCHOOL TEACHERS* (W006917); 8 MONTHS \$67,487

FRY, WAYNE L; *SUMMER AND IN-SERVICE INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006944); 20 MONTHS \$77,282

DAHLSTEN, DONALD L; *SHORT COURSE ON ENVIRONMENTAL STUDIES FOR SECONDARY SCHOOL TEACHERS* (W007497); 19 MONTHS \$12,529

MILLER, JOHN D; *IN-SERVICE INSTITUTE IN SCIENCE AND MATHEMATICS INSTRUCTION FOR SECONDARY SCHOOL TEACHERS* (W007483); 19 MONTHS \$16,119

STONE, EDWARD C; *IN-SERVICE INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007486); 19 MONTHS \$1,097

UNIVERSITY OF CALIFORNIA, LOS ANGELES

BURKHARD, MERTON; *SUMMER INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W006814); 17 MONTHS \$7,022

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

MEYER, WILLIAM H; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006896); 19 MONTHS \$90,316

UNIVERSITY OF IEDLANDS

TROLAN, J KENNETH; *IN-SERVICE INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W007487); 19 MONTHS \$10,628

UNIVERSITY OF SAN FRANCISCO

FARRELL, EDWARD J; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007443); 10 MONTHS \$37,979

UNIVERSITY OF SANTA CLARA

KLOSINSKI, L F; *SUMMER AND IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006944); 20 MONTHS \$72,451

DEMARTINI, JOSEPH; *SUMMER INSTITUTE IN SOCIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007020); 10 MONTHS \$51,630

HAMLETT, BRUCE D; *SHORT COURSE ON SIMULATION TECHNIQUES FOR SECONDARY SCHOOL TEACHERS* (W007409); 19 MONTHS \$12,831

UNIVERSITY OF SOUTHERN CALIFORNIA

WHITE, PAUL A; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006949); 10 MONTHS \$52,417

WHITE, PAUL A; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007453); 19 MONTHS \$24,117

COLORADO

COLORADO COLLEGE

KESTER, KEITH B; *IN-SERVICE INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W007447); 19 MONTHS \$5,818

COLORADO SCHOOL OF MINES

BURNETT, JERROLD J; *IN-SERVICE INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007442); 19 MONTHS \$22,459

COLORADO STATE UNIVERSITY

PAINTER, RICHARD J; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006842); 10 MONTHS \$67,393

BRITTON, CHARLES C; *SUMMER INSTITUTE IN TECHNOLOGY AND SOCIETY FOR SECONDARY SCHOOL TEACHERS* (W006916); 10 MONTHS \$49,185

FORT LEWIS COLLEGE

OIBBS, RICHARD A; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007118); 19 MONTHS \$4,838

SOCIAL SCIENCE EDUCATION CONSORTIUM INC

DAVIS, JAMES E; *CONFERENCE IN SOCIAL SCIENCE EDUCATION FOR STATE SOCIAL STUDIES SPECIALISTS* (W007490); 18 MONTHS \$19,198

UNIVERSITY OF COLORADO

MALER, O J; *SUMMER INSTITUTE IN ENGINEERING SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006966); 10 MONTHS \$53,256

HAAS, JOHN D; *ACADEMIC YEAR INSTITUTE IN SOCIAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007047); 24 MONTHS \$94,874

MAYER, WILLIAM V; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007811); 10 MONTHS \$71,868

WAILER, JAMES R; *SHORT COURSE ON NATIONAL CURRICULAR STUDIES FOR SCIENCE SUPERVISORS AND COLLEGE PERSONNEL* (W007301*); 10 MONTHS \$19,060

HAAL, JOHN D; *IN-SERVICE INSTITUTE IN POLITICAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007187); 19 MONTHS \$10,250

UNIVERSITY OF NORTHERN COLORADO

DIETZ, RICHARD D; *IN-SERVICE INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007187); 19 MONTHS \$18,900

DIETZ, RICHARD D; *IN-SERVICE INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007187 001); \$3,110

UNIVERSITY OF COLORADO-COLORADO SPRINGS CENTER

SHERMAN, JACK; *IN-SERVICE INSTITUTE IN MATHEMATICS (COLAMDA) FOR SECONDARY SCHOOL TEACHERS* (W007388); 19 MONTHS \$3,653

SHERMAN, JACK; *IN-SERVICE INSTITUTE IN 'THE MAN-MADE WORLD' FOR SECONDARY SCHOOL TEACHERS* (W007432); 19 MONTHS \$12,089

UNIVERSITY OF COLORADO-DENVER CENTER

ALLEN, FREDERICK S; *IN-SERVICE INSTITUTE IN STRUCTURE OF THE SOCIAL SCIENCES FOR SECONDARY SCHOOL TEACHERS* (W007383); 19 MONTHS \$21,698

CONNECTICUT**FAIRFIELD UNIVERSITY**

BOLGER, ROBERT E; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007331); 19 MONTHS \$10,844

SOUTHERN CONNECTICUT STATE COLLEGE

SCHRADER, DOROTHY V; *ACADEMIC YEAR INSTITUTE IN MATHEMATICS FOR INTERN TEACHERS AND SECONDARY SECONDARY SCHOOL TEACHERS* (W007044); 24 MONTHS \$33,078

ST JOSEPH COLLEGE

MARKHAM, M CLARE; *SUMMER AND IN-SERVICE INSTITUTE IN ENVIRONMENTAL STUDIES FOR SECONDARY SCHOOL TEACHERS* (W007411); 20 MONTHS \$16,286

UNIVERSITY OF CONNECTICUT

WOLFE, MARTIN S; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007005); 10 MONTHS \$47,851

WESLEYAN UNIVERSITY

CRONIN, JAMES E; *SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006817); 10 MONTHS \$19,296

CRONIN, JAMES E; *SUMMER INSTITUTE IN MULTIPLE FIELDS FOR SECONDARY SCHOOL TEACHERS* (W006872); 11 MONTHS \$45,143

DELAWARE**UNIVERSITY OF DELAWARE**

PURNELL, CHARLOTTE H; *THE DEL MOD SYSTEM PROJECT - A SYSTEMS APPROACH TO SCIENCE EDUCATION IN DELAWARE* (W006703 001); \$39,310

PURNELL, CHARLOTTE H; *THE DEL MOD SYSTEM PROJECT-A SYSTEMS APPROACH TO SCIENCE EDUCATION IN DELAWARE* (W006703 002); 12 MONTHS \$591,162

SLOYER, CLIFFORD W; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007353); 19 MONTHS \$7,343

DISTRICT OF COLUMBIA

NONE; *OTHER PROGRAM AWARDS (14AWDS)*; \$16,545

AMERICAN UNIVERSITY

MOTZ, ANNABELLE; *1971-72 IN-SERVICE INSTITUTE IN SOCIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W005878 001); 15 MONTHS \$3,926

SCHUBERT, LEO; *SUMMER INSTITUTE IN SPECIAL TOPICS IN CHEMISTRY AND PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W004913); 10 MONTHS \$56,543

SCHUBERT, LEO; *IN-SERVICE INSTITUTE IN SCIENCE AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007316); 19 MONTHS \$22,790

SCHUBERT, LEO; *1973-74 IN-SERVICE INSTITUTE IN SCIENCE AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007437); 26 MONTHS \$23,291

CATHOLIC UNIVERSITY OF AMERICA

MOLLER, RAYMOND W; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W004830); 6 MONTHS \$88,080

GEORGE WASHINGTON UNIVERSITY

BARI, RUTH A; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007381); 19 MONTHS \$9,898

HOWARD UNIVERSITY

TAYLOR, MARIE C; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W004831); 10 MONTHS \$39,301

NATIONAL SCIENCE TEACHERS ASSOCIATION

MERRILL, RICHARD J; *IN-SERVICE EDUCATION OF TEACHERS OF SCIENCE THROUGH SPECIAL PROGRAM COMPONENTS OF REGIONAL CONFERENCES OF NSTA* (W004807); 12 MONTHS \$18,099

MERRILL, RICHARD J; *IN-SERVICE ACTIVITIES IN SCIENCE AND TEACHING OF SCIENCE* (W004807 001); 12 MONTHS \$20,008

KIZER, FRANKLIN D; *SEVEN REGIONAL CONFERENCES ON SCIENCE EDUCATION IN THE ELEMENTARY AND SECONDARY SCHOOLS OF THE NATION* (W004808*); 12 MONTHS \$46,887

FLORIDA**FLORIDA STATE UNIVERSITY**

WESTMEYER, PAUL H; *1970 SUMMER INSTITUTE IN NEW CURRICULUM DEVELOPMENTS FOR SCIENCE SUPERVISORS* (W004878 001); \$1,050

WESTMEYER, PAUL H; *SUMMER INSTITUTE IN NEW CURRICULUM DEVELOPMENTS FOR SCIENCE SUPERVISORS* (W004878); 10 MONTHS \$41,228

WESTMEYER, PAUL; *SUMMER INSTITUTE ON THE INTERMEDIATE SCIENCE CURRICULUM STUDY MATERIALS FOR SECONDARY SCHOOL TEACHERS* (W004855); 10 MONTHS \$40,730

WESTMEYER, PAUL; *SUMMER INSTITUTE IN TEACHER INITIATED PROGRAMS FOR SECONDARY SCHOOL TEACHERS* (W004864); 10 MONTHS \$47,148

WILLS, HERBERT; *ACADEMIC YEAR INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007054); 24 MONTHS \$135,089

WESTMEYER, PAUL; *IN-SERVICE INSTITUTE IN BSCS-SPECIAL MATERIALS FOR SECONDARY SCHOOL TEACHERS* (W007502); 19 MONTHS \$15,594

WESTMEYER, PAUL; *IN-SERVICE INSTITUTE IN THE INTERMEDIATE SCIENCE CURRICULUM STUDY MATERIALS FOR SECONDARY SCHOOL TEACHERS* (W007683); 13 MONTHS \$15,268

FLORIDA TECHNOLOGICAL UNIVERSITY

BOLTE, JOHN R; *1971 SUMMER INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W004169 001); \$178

UNIVERSITY OF FLORIDA

NELSON, CHARLES W; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W004933); 10 MONTHS \$59,972

RAPPENECKER, CASPAR; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007328); 19 MONTHS \$28,900

RAPPENECKER, CASPAR; *IN-SERVICE INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007343); 19 MONTHS \$50,258

RAPPENECKER, CASPAR; *IN-SERVICE INSTITUTE IN INTRODUCTORY PHYSICAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007344); 19 MONTHS \$16,990

GEORGIA**ATLANTA UNIVERSITY**

FREDERICK, LAFAYETTE; *ACADEMIC YEAR INSTITUTE IN BIOLOGY AND CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W007053); 24 MONTHS \$128,828

EMORY UNIVERSITY

DOWNES, JOHN P; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006838); 10 MONTHS \$49,946

LESTER, CHARLES T; *IN-SERVICE INSTITUTE FOR SECONDARY SCHOOL TEACHERS* (W007316); 19 MONTHS \$12,906

NORTH GEORGIA COLLEGE

ROUGHEAD JR, WILLIAM G; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007208); 10 MONTHS \$50,165

SHORTER COLLEGE

GREAR, PHILIP F-C; *SHORT COURSE ON NATURAL RESOURCE USE EDUCATION FOR SECONDARY SCHOOL TEACHERS* (W007303); 10 MONTHS \$4,606

UNIVERSITY OF GEORGIA

WAGGONER, W H; *SUMMER INSTITUTE IN MULTIPLE FIELDS FOR SECONDARY SCHOOL TEACHERS* (W006837); 10 MONTHS \$30,930

KELLY, PAUL EDWARD; *SUMMER INSTITUTE IN SOCIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007027); 10 MONTHS \$34,749

KOELSCH, CHARLES L; *IN-SERVICE INSTITUTE IN BIOLOGICAL, PHYSICAL AND EARTH SCIENCES FOR SECONDARY SCHOOL TEACHERS* (W007221); 18 MONTHS \$31,978

VALDOSTA STATE COLLEGE

CONNELL, CLYDE E; *SHORT COURSE ON NATURAL RESOURCE EDUCATION FOR SECONDARY SCHOOL TEACHERS* (W007311); 10 MONTHS \$4,656

HAWAII

UNIVERSITY OF HAWAII

WONG, RUTH E M; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007330); 18 MONTHS \$26,954

NOSE, KATASHI; *IN-SERVICE INSTITUTE IN ELECTRONICS FOR SECONDARY SCHOOL TEACHERS* (W007341); 18 MONTHS \$10,440

IDAHO

COLLEGE OF IDAHO

HENRY, BOYD; *IN-SERVICE INSTITUTE IN COMPUTER MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007433); 19 MONTHS \$9,875

UNIVERSITY OF IDAHO

TYLUTKI, EDMUND E; *SUMMER INSTITUTE IN MULTIPLE FIELDS FOR SECONDARY SCHOOL TEACHERS* (W006893); 10 MONTHS \$53,626

ILLINOIS

DEPAUL UNIVERSITY

SEMRAD, JOSEPH E; *IN-SERVICE INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007318); 19 MONTHS \$12,625

ILLINOIS INSTITUTE OF TECHNOLOGY

WILCOX, L R; *ACADEMIC YEAR INSTITUTE IN COMPUTER SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007051); 24 MONTHS \$125,866

ZWICKER, EARL; *SUMMER AND IN-SERVICE INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W007219); 20 MONTHS \$38,074

REINGOLD, HAIM; *IN-SERVICE INSTITUTE IN MATHEMATICS AND COMPUTERS FOR SECONDARY SCHOOL TEACHERS* (W007398); 19 MONTHS \$40,951

KNOX COLLEGE

PRIESTLEY, HERBERT; *SUMMER INSTITUTE IN SCIENCE AND SOCIETY FOR SECONDARY SCHOOL TEACHERS* (W006894); 10 MONTHS \$44,975

PRIESTLEY, HERBERT; *SHORT COURSE ON SCIENCE AND SOCIETY FOR SECONDARY SCHOOL TEACHERS* (W007291); 10 MONTHS \$3,340

HARRIS, LELAND; *IN-SERVICE INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W007448); 19 MONTHS \$7,961

NORTHEASTERN ILLINOIS STATE COLLEGE

QUTUB, MUSA Y; *IN SERVICE INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007350); 19 MONTHS \$10,960

NORTHERN ILLINOIS UNIVERSITY

BEHR, MERLYN J; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007224); 10 MONTHS \$66,255

NORTHWESTERN UNIVERSITY

HERRICK, THERAL T; *SHORT COURSE ON ECONOMICS FOR SECONDARY SCHOOL TEACHERS AND ADMINISTRATORS* (W007312); 10 MONTHS \$24,679

ROOSEVELT UNIVERSITY

HARRIS, ARTHUR; *SUMMER INSTITUTE IN SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006900); 10 MONTHS \$34,385

SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE

MCDANIEL, WILBUR C; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006860); 10 MONTHS \$15,649

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

SETTON, HENRY A; *IN-SERVICE INSTITUTE IN 'THE MAN-MADE WORLD' (ECCP) FOR SECONDARY SCHOOL TEACHERS* (W007429); 10 MONTHS \$10,070

HART, ALICE; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007478); 19 MONTHS \$22,000

UNIVERSITY OF ILLINOIS AT URBANA

ZARING, WILSON M; *ACADEMIC YEAR INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007043); 24 MONTHS \$171,528

ZWOYER, RUSSELL E; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007218); 10 MONTHS \$100,000

PADEN, DONALD W; *SUMMER INSTITUTE IN ECONOMICS FOR SECONDARY SCHOOL TEACHERS* (W007231); 10 MONTHS \$22,841

PADEN, DONALD W; *1973 SUMMER INSTITUTE IN ECONOMICS FOR SECONDARY SCHOOL TEACHERS* (W007430); 14 MONTHS \$18,764

UNIVERSITY OF LOUISVILLE

ZARING, WILSON; *IN-SERVICE INSTITUTE IN COMPUTER SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006801); 13 MONTHS \$16,179

INDIANA

BALL STATE UNIVERSITY

MERTENS, THOMAS R; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006899); 10 MONTHS \$62,198

MCCORMICK, ROY L; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006930); 10 MONTHS \$48,065

AVILA, RAMON L; *IN-SERVICE INSTITUTE IN PROBLEMS IN THE TEACHING OF JUNIOR HIGH MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007387); 19 MONTHS \$6,603

DEPAUW UNIVERSITY

GASS, CLINTON B; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007300); 10 MONTHS \$41,210

INDIANA STATE UNIVERSITY

POORMAN, LAWRENCE E; *IN-SERVICE INSTITUTE IN PHYSICS AND BIOPHYSICS FOR SECONDARY SCHOOL TEACHERS* (W007348); 19 MONTHS \$8,617

INDIANA UNIVERSITY, BLOOMINGTON

WILCOX, KARIE S; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006940); 10 MONTHS \$55,883

DROSTE, JOHN B; *SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006866); 10 MONTHS \$65,308

MCCLUNG, L S; *SUMMER INSTITUTE IN MICROBIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006978); 10 MONTHS \$35,226

PURDUE UNIVERSITY

OLSON, J BENNET; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006920); 10 MONTHS \$88,018

NEIE, VAN E; *SUMMER INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W006973); 10 MONTHS \$118,177

HERRON, J D; *SUMMER INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W006974); 10 MONTHS \$71,818

WHEATLEY, GRAYSON H; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006981); 10 MONTHS \$60,400

BECHTEL, ROBERT D; *SUMMER AND IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007186); 20 MONTHS \$136,877

UNIVERSITY OF EVANSVILLE

COLEMAN, RALPH H; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007399); 19 MONTHS \$6,441

UNIVERSITY OF NOTRE DAME

MURPHY, MICHAEL J; *1971-72 IN-SERVICE INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W005759 001); \$4,079

GOETZ, ABRAHAM; *COMPREHENSIVE PROJECT OF SUPPLEMENTARY EDUCATION FOR SECONDARY SCHOOL TEACHERS OF MATHEMATICS* (W006889 001); 12 MONTHS \$318,120

ANTHONY, ROBERT L; *SUMMER INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W006957); 10 MONTHS \$48,492

MURPHY, MICHAEL J; *SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006897); 10 MONTHS \$115,073

HOPMAN, EMIL T; *SUMMER INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W006948); 10 MONTHS \$75,010

MURPHY, MICHAEL J; *IN-SERVICE INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007439); 19 MONTHS \$14,215

IOWA

CLARKE COLLEGE

KELLER, SR MARY K; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006921); 10 MONTHS \$32,721

DRAKE UNIVERSITY

ROGERS, RODNEY A; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006839); 10 MONTHS \$65,695

WOODWORTH, WAYNE L; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006918); 11 MONTHS \$59,849

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

HUSSEY, KEITH M; *SUMMER INSTITUTE EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006956); 10 MONTHS \$39,228

UNIVERSITY OF IOWA

YAGER, ROBERT E; *SUMMER INSTITUTE IN INTERDISCIPLINARY ENVIRONMENTAL STUDIES FOR SECONDARY SCHOOL TEACHERS* (W006989); 8 MONTHS \$49,878

YAGER, ROBERT E; *SUMMER INSTITUTE IN MOLECULAR BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006990); 20 MONTHS \$62,190

YAGER, ROBERT E; *ACADEMIC YEAR INSTITUTE IN MATHEMATICS AND SCIENCE FOR SUPERVISOR INTERNS* (W007042); 24 MONTHS \$96,563

WILMETH, J RICHARD; *SUMMER INSTITUTE IN SOCIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007301); 10 MONTHS \$47,366

KEPNER, HENRY S; *SHORT COURSE ON COMPUTER SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007308); 10 MONTHS \$18,900

YAGER, ROBERT E; *IN-SERVICE INSTITUTE IN UNIFIED SCIENCE CONCEPTS FOR SECONDARY SCHOOL TEACHERS* (W007471); 19 MONTHS \$15,049

UNIVERSITY OF NORTHERN IOWA

ALBERTS, LYLE K; *IN-SERVICE INSTITUTE IN SOCIAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007160); 19 MONTHS \$13,968

HANSON, ROBERT W; *IN-SERVICE INSTITUTE IN ENVIRONMENTAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007176); 19 MONTHS \$11,159

KANSAS

KANSAS STATE COLLEGE OF PITTSBURG

THOMAS, HAROLD L; *SUMMER INSTITUTE IN MULTIPLE FIELDS FOR SECONDARY SCHOOL TEACHERS* (W006919); 10 MONTHS \$52,255

THOMAS, HAROLD L; *SUMMER INSTITUTE IN MULTIPLE FIELDS FOR SECONDARY SCHOOL TEACHERS* (W007144); 16 MONTHS \$33,701

KANSAS STATE TEACHERS COLLEGE OF EMPORIA

CRAM, B WINSTON; *SUMMER INSTITUTE IN PHYSICAL SCIENCES FOR SECONDARY SCHOOL TEACHERS* (W006966); 10 MONTHS \$37,972

DURST, HAROLD; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006978); 10 MONTHS \$62,145

DURST, HAROLD; *IN-SERVICE INSTITUTE IN ENVIRONMENTAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007111); 19 MONTHS \$17,378

KANSAS STATE UNIVERSITY

CHELIKOWSKY, J R; *SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006937); 10 MONTHS \$37,572

MEYER, WALTER; *SUMMER INSTITUTE IN POWER, SOCIETY AND THE ENVIRONMENT FOR SECONDARY SCHOOL TEACHERS* (W006937); 10 MONTHS \$48,271

JAMES, ROBERT X; *SUMMER INSTITUTE IN INTERMEDIATE SCIENCE CURRICULUM STUDY FOR SECONDARY SCHOOL TEACHERS* (W006980); 10 MONTHS \$53,143

DIXON, LYLE J; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007382); 19 MONTHS \$21,154

CHELIKOWSKY, J R; *1973 SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007651); 15 MONTHS \$61,254

WICHITA STATE UNIVERSITY

TILFORD, MICHAEL PHILLIP; *IN-SERVICE INSTITUTE IN THE MAN MADE WORLD (ECCP) FOR SECONDARY SCHOOL TEACHERS* (W007187); 19 MONTHS \$16,628

KENTUCKY

GEORGETOWN COLLEGE

DOBYNS, ROY A; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007368); 19 MONTHS \$6,170

MURRAY STATE UNIVERSITY

BLACKBURN, WALTER E; *SUMMER INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006973); 10 MONTHS \$62,201

UNIVERSITY OF KENTUCKY

CUNNINGHAM, JOEL; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007313); 9 MONTHS \$13,154

UNIVERSITY OF LOUISVILLE

BORDOLOI, KIRON C; *IN-SERVICE INSTITUTE IN SOLID-STATE ELECTRONIC DEVICES AND CIRCUITS BY THE KELLER METHOD FOR SECONDARY SCHOOL TEACHERS* (W007191); 19 MONTHS \$10,620

WESTERN KENTUCKY UNIVERSITY

HOYT, ROBERT D; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006966); 10 MONTHS \$29,087

LOUISIANA

GRAMBLING COLLEGE

DOUGLAS, SAMUEL H; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007004); 10 MONTHS \$46,124

DOUGLAS, SAMUEL H; *ACADEMIC YEAR INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007041); 24 MONTHS \$45,962

DOUGLAS, SAMUEL H; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007320); 19 MONTHS \$11,100

LOUISIANA STATE UNIVERSITY, BATON ROUGE

MITCHELL, BENJAMIN E; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006871); 10 MONTHS \$42,498

BERTRAND, ALVIN L; *SUMMER INSTITUTE IN SOCIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006987); 10 MONTHS \$40,750

KARNES, HOUSTON T; *ACADEMIC YEAR INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007051); 24 MONTHS \$141,961

BENNETT, HARRY J; *IN-SERVICE INSTITUTE IN MARINE SCIENCE AND COASTAL MARSH ECOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007382); 19 MONTHS \$10,945

LOYOLA UNIVERSITY

BENEDETTO, F A; *SUMMER INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W007186); 10 MONTHS \$46,450

TODD, LEWIS J; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007345); 19 MONTHS \$26,104

MCNEESE STATE UNIVERSITY

SPENCER, S M; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007163); 19 MONTHS \$6,468

SOUTHEASTERN LOUISIANA UNIVERSITY

ANDREWS, NEWTON S; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007149); 19 MONTHS \$8,788

SOUTHERN UNIVERSITY

RUFFIN, SPAULDING M; *SUMMER INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W007261); 10 MONTHS \$67,580

TULANE UNIVERSITY

QUIGLEY, FRANK D; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006994); 10 MONTHS \$58,023

MAINE

BOWDOIN COLLEGE

GUSTAFSON, ALTON H; *SUMMER INSTITUTE IN MARINE ECOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006876); 10 MONTHS \$46,577

WHEATLAND, DAVID A; *SUMMER INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W006877); 10 MONTHS \$40,377

CHITTIM, RICHARD L; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006882); 10 MONTHS \$64,313

GROBE, CHARLES A JR; *ACADEMIC YEAR INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007058); 24 MONTHS \$97,443

COLBY COLLEGE

REID, EVANS B; *SUMMER INSTITUTE IN SCIENCE AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006908); 10 MONTHS \$74,163

UNIVERSITY OF MAINE, ORONO

MAIRHUBER, JOHN C; *SUMMER AND IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007127); 20 MONTHS \$52,139

UNIVERSITY OF MAINE, PORTLAND-GORHAM

FOSTER, CAROLYN N; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007365); 19 MONTHS \$6,178

MARYLAND

NONE; OTHER PROGRAM AWARDS (06AWDS); \$4,776

MARYLAND STATE DEPARTMENT OF EDUCATION

LATHAM, JAMES W JR; *A MULTI-STATE CONFERENCE ON ENVIRONMENTAL EDUCATION* (W006868); 12 MONTHS \$9,200

LATHAM, JAMES W JR; *A MULTI-STATE CONFERENCE ON ENVIRONMENTAL EDUCATION* (W006808 001); \$435

MORGAN STATE COLLEGE

FRASER, THOMAS P; *SUMMER AND IN-SERVICE INSTITUTE IN SCIENCE AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007035); 21 MONTHS \$90,887

TALBOT, WALTER R; *ACADEMIC YEAR INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007040); 24 MONTHS \$89,067

UNIVERSITY OF MARYLAND, COLLEGE PARK

FEY, JAMES T; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007001); 10 MONTHS \$46,966

LOCKARD, J DAVID; *ACADEMIC YEAR INSTITUTE FOR SCIENCE SUPERVISORS* (W007068); 24 MONTHS \$96,604

JACKSON, STANLEY B; *IN SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007317); 19 MONTHS \$16,691

LAYMAN, JOHN W; *IN-SERVICE INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007328); 19 MONTHS \$17,136

GOOD, RICHARD A; *1973-74 IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007610); 25 MONTHS \$16,208

MASSACHUSETTS

WEST, ARTHUR J; OTHER PROGRAM AWARDS (01AWDS); 15 MONTHS \$34,960

AMERICAN INTERNATIONAL COLLEGE

CEBULA, JOSEPH P; *IN-SERVICE INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W007381); 19 MONTHS \$5,410

BOSTON COLLEGE

LADD, GEORGE T; *IN-SERVICE INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006805); 13 MONTHS \$14,064

LADD, GEORGE T; *SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006853); 10 MONTHS \$42,607

BEZUSZKA, STANLEY J; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006875); 10 MONTHS \$38,063

BEZUSZKA, STANLEY J; *IN SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007319); 19 MONTHS \$19,995

LADD, GEORGE T; *IN-SERVICE INSTITUTE IN ENVIRONMENTAL SCIENCE EDUCATION FOR SECONDARY SCHOOL TEACHERS* (W007501); 19 MONTHS \$12,155

BEZUSZKA, STANLEY J; 1973-74 *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007441); 25 MONTHS \$20,841

BOSTON STATE COLLEGE

FAIRBANKS III, GEORGE A; *IN-SERVICE INSTITUTE IN PHYSICAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007429); 19 MONTHS \$12,350

BRIDGEWATER STATE COLLEGE

BOUTILIER, ROBERT F; *SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007443); 10 MONTHS \$23,328

CHICCARELLI, JOSEPH B; *IN-SERVICE INSTITUTE IN SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007431); 19 MONTHS \$38,673

COLLEGE OF THE HOLY CROSS

GUNTER JR, ROY C; *SUMMER INSTITUTE IN OPTICS/ELECTRONICS FOR SECONDARY SCHOOL TEACHERS* (W006834); 10 MONTHS \$54,127

MACDONNELL, ROBERT B; *IN-SERVICE INSTITUTE IN PHYSICAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007426); 19 MONTHS \$9,725

SULSKI, LEONARD C; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007439); 19 MONTHS \$7,356

EASTERN NAZARENE COLLEGE

JOHN, FLOYD I; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007445); 19 MONTHS \$8,766

FRAMINGHAM STATE COLLEGE

MURRAY, JOHN T; *IN-SERVICE INSTITUTE IN DESCRIPTIVE ASTRONOMY FOR SECONDARY SCHOOL TEACHERS* (W007432); 19 MONTHS \$8,668

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ZACHARIAS, JERROLD R; *SUMMER INSTITUTE IN COURSE AND CURRICULUM DEVELOPMENT FOR SECONDARY SCHOOL TEACHERS* (W007211); 20 MONTHS \$38,911

SIMMONS COLLEGE

BELL, JERRY A; *SUMMER INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W006830); 10 MONTHS \$25,759

WORCESTER POLYTECHNIC INSTITUTE

MORTON, RICHARD F; *SUMMER AND IN-SERVICE INSTITUTE IN SCIENCE AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007033); 20 MONTHS \$80,722

MICHIGAN

ESHLEMAN, J ROSS; *OTHER PROGRAM AWARDS (01AWDS)*; 14 MONTHS \$41,820

EASTERN MICHIGAN UNIVERSITY

MOORE, JEAN R; *IN-SERVICE INSTITUTE IN GENERAL SCIENCE-ISCs FOR SECONDARY SCHOOL TEACHERS* (W007391); 19 MONTHS \$8,980

HOPE COLLEGE

JEKEL, EUGENE C; *SUMMER INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W006827); 10 MONTHS \$63,710

FOLKERT, JAY E; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006815); 10 MONTHS \$53,603

FOLKERT, JAY E; 1972 *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007619); 15 MONTHS \$54,905

MICHIGAN STATE UNIVERSITY

WAGNER, JOHN; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006824); 10 MONTHS \$47,037

PEABODY, FRANK R; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006887); 10 MONTHS \$90,844

WAGNER, JOHN; *SHORT COURSE ON MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007195); 10 MONTHS \$19,645

WOODBY, LAUREN G; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007172); 19 MONTHS \$12,440

NORTHERN MICHIGAN UNIVERSITY

ALLENSTEIN, R V; *SUMMER INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006976); 10 MONTHS \$29,906

UNIVERSITY OF DETROIT

MEHLENBACHER, LYLE E; *SUMMER AND IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007038); 20 MONTHS \$58,181

MEHLENBACHER, LYLE E; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007468); 19 MONTHS \$9,513

WAYNE STATE UNIVERSITY

HOOPER, HENRY O; *SUMMER INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006965); 10 MONTHS \$9,407

SLABY, HAROLD T; *SUMMER AND IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007039); 20 MONTHS \$77,594

STEVENS, CALVIN L; *ACADEMIC YEAR INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W007038); 24 MONTHS \$104,668

ROSSMOORE, HAROLD; *IN-SERVICE INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007411); 19 MONTHS \$11,818

WESTERN MICHIGAN UNIVERSITY

ESHLEMAN, J ROSS; *SUMMER INSTITUTE IN SOCIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006833); 10 MONTHS \$58,807

CLARKE, A BRUCE; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006845); 10 MONTHS \$74,838

HELLER, CHARLES; *SUMMER INSTITUTE IN GEOGRAPHY FOR SECONDARY SCHOOL TEACHERS* (W007007); 10 MONTHS \$55,933

GOODNIGHT, CLARENCE J; *IN-SERVICE INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007340); 19 MONTHS \$15,760

MALLINSON, GEORGE G; *IN-SERVICE INSTITUTE IN SCIENCE AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007358); 19 MONTHS \$20,671

UNIVERSITY OF MICHIGAN-DEARBORN CAMPUS

CHLDERLOOS, ORIN G; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007237); 20 MONTHS \$52,458

MINNESOTA

WELCH, WAYNE W; *OTHER PROGRAM AWARDS (01AWDS)*; 12 MONTHS \$37,720

BEMIDJI STATE COLLEGE

WINTER, WESLEY W; *SUMMER INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W006938); 10 MONTHS \$47,483

SMITH, GERALD J; *IN-SERVICE INSTITUTE IN GENERAL SCIENCE AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007116); 19 MONTHS \$12,015

ST CLOUD STATE COLLEGE

HOPKINS, HAROLD; *SUMMER INSTITUTE IN BIOLOGY, CHEMISTRY AND PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W006901); 10 MONTHS \$42,030

HOPKINS, HAROLD; *IN-SERVICE INSTITUTE IN ENVIRONMENTAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007431); 19 MONTHS \$8,428

ST MARY'S COLLEGE

SEVERIN, CHARLES; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006965); 10 MONTHS \$10,202

SEVERIN, BRO CHARLES; *IN-SERVICE INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007469); 19 MONTHS \$10,755

UNIVERSITY OF MINNESOTA

WELCH, WAYNE W; *RESEARCH ON THE DESIGN IMPLEMENTATION, AND EFFICACY OF THE NSF PROGRAM OF COMPREHENSIVE GRANTS FOR TEACHER EDUCATION* (W006890); 12 MONTHS \$108,698

WELCH, WAYNE W; *RESEARCH ON THE DESIGN IMPLEMENTATION AND EFFICACY OF THE NSF PROGRAM OF COMPREHENSIVE GRANTS FOR TEACHER EDUCATION* (W006800 001); 12 MONTHS \$115,204

HOBBIE, RUSSELL K; *SUMMER INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W006899); 10 MONTHS \$55,521

LEWIS, DARRELL R; *IN-SERVICE INSTITUTE IN ECONOMICS FOR SECONDARY SCHOOL TEACHERS* (W007460); 19 MONTHS \$9,218

MISSISSIPPI

ALCORN AGRICULTURAL AND MECHANICAL COLLEGE

PARKER, HENRY L; *IN-SERVICE INSTITUTE IN SCIENCE AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007491); 19 MONTHS \$15,652

JACKSON STATE COLLEGE

UZODINMA, JOHN E; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007030); 10 MONTHS \$56,328

MISSISSIPPI STATE UNIVERSITY

TILLEY, JOHN L; *SUMMER INSTITUTE IN SCIENCE AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006827); 10 MONTHS \$41,211

MISSISSIPPI VALLEY STATE COLLEGE

PILLAI, THANUMALAYA P; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007190); 19 MONTHS \$9,980

UNIVERSITY OF MISSISSIPPI

HUNEYCUTT, M B; *COMPREHENSIVE PROJECT FOR SECONDARY SCHOOL TEACHERS OF SCIENCE* (W006368 001); 12 MONTHS \$485,675

UNIVERSITY OF SOUTHERN MISSISSIPPI

SONNIER, ISADORE L; *SUMMER AND IN-SERVICE INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007031); 20 MONTHS \$67,506

MISSOURI

- DRURY COLLEGE**
ROGERS, PAUL; *IN-SERVICE INSTITUTE IN BASIC ECONOMICS FOR SECONDARY SCHOOL TEACHERS (W007380)*; 10 MONTHS \$5,108
- LINDENWOOD COLLEGE**
DELANEY JR, PATRICK F; *IN-SERVICE INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS (W007317)*; 19 MONTHS \$6,968
- NORTHEAST MISSOURI STATE COLLEGE**
ROSEBERY, DEAN A; *SUMMER INSTITUTE IN ECOLOGY FOR SECONDARY SCHOOL TEACHERS (W006819)*; 20 MONTHS \$52,992
- NORTHWEST MISSOURI STATE COLLEGE**
DEVORE, ELWIN K; *IN-SERVICE INSTITUTE IN BASIC ECONOMICS FOR SECONDARY SCHOOL TEACHERS (W007379)*; 19 MONTHS \$6,796
- SOUTHEAST MISSOURI STATE COLLEGE**
EWBANK, WAYNE E; *IN-SERVICE INSTITUTE IN BASIC ECONOMICS FOR SECONDARY SCHOOL TEACHERS (W007378)*; 19 MONTHS \$6,193
- ST LOUIS UNIVERSITY**
ANDREWS, JOHN J; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006948)*; 10 MONTHS \$33,031
ANDREWS, JOHN J; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007163)*; 19 MONTHS \$8,768
- UNIVERSITY OF MISSOURI, COLUMBIA**
BURCHAM, PAUL B; *SUMMER INSTITUTE FOR SECONDARY SCHOOL TEACHERS (W00444 001)*; 11 MONTHS \$7,541
KUHLMAN, JOHN M; *ACADEMIC YEAR INSTITUTE IN ADVANCED ECONOMICS FOR SECONDARY SCHOOL TEACHERS (W007011)*; 24 MONTHS \$142,812
OCONNOR, WILLIAM C; *IN-SERVICE INSTITUTE IN BASIC ECONOMICS FOR SECONDARY SCHOOL TEACHERS (W007374)*; 19 MONTHS \$23,381
- UNIVERSITY OF MISSOURI, KANSAS CITY**
HUBBELL, KENNETH; *IN-SERVICE INSTITUTE IN BASIC ECONOMICS FOR SECONDARY SCHOOL TEACHERS (W007375)*; 19 MONTHS \$4,674
ANDERSON, ROBERT G; *IN-SERVICE INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS (W007377)*; 19 MONTHS \$15,516
- UNIVERSITY OF MISSOURI, ROLLA**
FULLER, HAROLD Q; *SUMMER INSTITUTE IN PHYSICAL SCIENCES AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006828)*; 10 MONTHS \$75,804
ADAMS, CURTIS; *IN-SERVICE INSTITUTE IN BASIC ECONOMICS FOR SECONDARY SCHOOL TEACHERS (W007376)*; 19 MONTHS \$5,347
- UNIVERSITY OF MISSOURI, ST LOUIS**
MCKENNA, JOSEPH P; *IN-SERVICE INSTITUTE IN BASIC ECONOMICS FOR SECONDARY SCHOOL TEACHERS (W007377)*; 19 MONTHS \$5,666

MONTANA

- MONTANA STATE UNIVERSITY**
AMEND, JOHN R; *SUMMER INSTITUTE IN NUCLEAR AND INSTRUMENTAL CHEMISTRY FOR SECONDARY SCHOOL TEACHERS (W006879)*; 10 MONTHS \$35,958
- MONTANA SUPERINTENDENT OF PUBLIC INSTRUCTION**
NICHOLSON, ALAN D; *IN SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007347)*; 19 MONTHS \$45,120
- UNIVERSITY OF MONTANA**
TIBBS, JOHN F; *SUMMER INSTITUTE IN FIELD BOTANY FOR SECONDARY SCHOOL TEACHERS (W006831)*; 10 MONTHS \$29,133
MYERS, WILLIAM M; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006986)*; 10 MONTHS \$60,715

NEBRASKA

- NEBRASKA WESLEYAN UNIVERSITY**
FRENCH JR, WALTER R; *SUMMER INSTITUTE FOR SECONDARY SCHOOL TEACHERS (W007092)*; 10 MONTHS \$65,580
- UNIVERSITY OF NEBRASKA AT LINCOLN**
SCHNEIDER, HUBERT H; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006912)*; 10 MONTHS \$44,970
DAVIDSON, JOHN F; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS (W007011)*; 10 MONTHS \$27,562
BECKMANN, MILTON W; *SHORT COURSE ON MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007496)*; 10 MONTHS \$16,198
- UNIVERSITY OF NEBRASKA AT OMAHA**
BROOKS, MERLE E; *IN-SERVICE INSTITUTE IN CHEMISTRY, PHYSICS, BIOLOGY AND SCIENCE EDUCATION FOR SECONDARY SCHOOL TEACHERS (W007498)*; 19 MONTHS \$16,287

NEVADA

- UNIVERSITY OF NEVADA, RENO**
TRENT, JOHN H; *IN-SERVICE INSTITUTE IN ENVIRONMENTAL SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007495)*; 19 MONTHS \$10,212

NEW HAMPSHIRE

- DARTMOUTH COLLEGE**
BALLARD, WILLIAM W; *IN-SERVICE INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS (W007185)*; 19 MONTHS \$8,685
- UNIVERSITY OF NEW HAMPSHIRE, DURHAM**
AMELL, ALEXANDER R; *SUMMER INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS (W006850)*; 10 MONTHS \$69,962
BALOMENOS, RICHARD H; *SUMMER INSTITUTE IN MATHEMATICS CURRICULUM FOR SECONDARY SCHOOL TEACHERS (W006918)*; 20 MONTHS \$45,084
BALOMENOS, RICHARD H; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006961)*; 20 MONTHS \$69,114

NEW JERSEY

- DREW UNIVERSITY**
GREENSPAN, BERNARD; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007014)*; 10 MONTHS \$51,348
GREENSPAN, BERNARD; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007403)*; 19 MONTHS \$9,268
- MONTCLAIR STATE COLLEGE**
MALETSKY, EVAN M; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006883)*; 10 MONTHS \$69,963
ZABADY, ALBERT; *IN-SERVICE INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS (W007353)*; 19 MONTHS \$12,517
- NEWARK COLLEGE OF ENGINEERING**
LANDSMAN, LEON D; *IN-SERVICE INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS (W007359)*; 19 MONTHS \$7,897
DROUGHTON, JOHN; *IN-SERVICE INSTITUTE IN URBAN AND ENVIRONMENTAL ENGINEERING FOR SECONDARY SCHOOL TEACHERS (W007364)*; 19 MONTHS \$7,740
- PRINCETON UNIVERSITY**
DORF, ERLING; *SHORT COURSE ON GEOLOGY FOR SECONDARY SCHOOL TEACHERS (W007302)*; 10 MONTHS \$24,556
- RUTGERS UNIVERSITY**
BARLAZ, JOSHUA; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006846)*; 10 MONTHS \$92,388
- ST PETERS COLLEGE**
VARRICHO, FRANCIS A; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007492)*; 19 MONTHS \$4,725

NEW MEXICO

- NEW MEXICO HIGHLANDS UNIVERSITY**
AMAI, ROBERT L S; *SUMMER INSTITUTE IN SCIENCE AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006959)*; 10 MONTHS \$51,804
- NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY**
SMITH, CLAY; *IN-SERVICE INSTITUTE IN ENVIRONMENTAL EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007483)*; 19 MONTHS \$10,782
- UNIVERSITY OF NEW MEXICO**
MITCHELL, MERLE; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006881)*; 10 MONTHS \$59,324

NEW YORK

- ADDELPHI UNIVERSITY**
BETTELHEIM, FREDERICK A; *SUMMER AND IN-SERVICE INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS (W007036)*; 20 MONTHS \$37,298
LEVINE, EUGENE; *SUMMER AND IN-SERVICE INSTITUTES IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007037)*; 20 MONTHS \$82,929
SIRKIN, LESLIE A; *IN-SERVICE INSTITUTE IN ENVIRONMENTAL AWARENESS FOR SECONDARY SCHOOL TEACHERS (W007409)*; 19 MONTHS \$8,456
- BROOKHAVEN LABORATORY**
PRICE, GLENN A; *IN-SERVICE INSTITUTE IN THE FORMS AND USES OF ENERGY. BASIC SCIENTIFIC CONCEPTS AND THEIR DEVELOPMENT FOR SECONDARY SCHOOL TEACHERS (AG06946)*; 19 MONTHS \$8,575

BROOKLYN COLLEGE

HALPERN, ALVIN; *SUMMER AND IN-SERVICE INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W006863); 20 MONTHS \$59,671

JORDAN, MEYER; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007406); 10 MONTHS \$24,797

CITY COLLEGE

KREMER, CHESTER B; *IN-SERVICE INSTITUTE IN ENVIRONMENTAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007437); 19 MONTHS \$21,209

CLARKSON COLLEGE OF TECHNOLOGY

JONES JR, GEORGE L; *SUMMER INSTITUTE IN MULTIPLE FIELDS FOR SECONDARY SCHOOL TEACHERS* (W006892); 10 MONTHS \$79,570

COLLEGE AT BUFFALO

SCHAEFLER, WILLIAM C; *IN-SERVICE INSTITUTE IN POPULATION AND ENVIRONMENTAL PROBLEMS FOR SECONDARY SCHOOL TEACHERS* (W007371); 19 MONTHS \$7,564

ZINGARO, JOSEPH S; *IN-SERVICE INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W007456); 19 MONTHS \$8,056

COLLEGE AT GENESEE

SELLS, ROBERT L; *SUMMER INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W006994); 10 MONTHS \$51,497

COLLEGE AT NEW PALTZ

WALKER, DONALD A; *SUMMER INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W007004); 10 MONTHS \$32,947

COLLEGE AT OSWEGO

MARSH, LELAND C; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007010); 20 MONTHS \$50,369

SALISBURY, ROBERT L; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007012); 10 MONTHS \$35,943

COLLEGE AT POTSDAM

MAJOR, ALEXANDER G; *SUMMER INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006925); 10 MONTHS \$56,258

FORDHAM UNIVERSITY

BRANDE, REV EDWARD W; *SUMMER AND IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007199); 20 MONTHS \$84,758

HAMILTON COLLEGE

GERE, BREWSTER H; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007222); 10 MONTHS \$51,307

HOFSTRA UNIVERSITY

DAVIS, JERRY B; *IN-SERVICE INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007408); 19 MONTHS \$9,217

MANHATTAN COLLEGE

OCONNOR, C LEONARD; *SUMMER INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W006902); 10 MONTHS \$15,744

MCNAMARA, B JOHN; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007369); 19 MONTHS \$15,410

NEW YORK UNIVERSITY

BURROW, MARTIN D; *IN SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007355); 19 MONTHS \$89,133

PACE COLLEGE

KONDE, ANTHONY J; *IN-SERVICE INSTITUTE IN CHEMISTRY AND ASTRONOMY FOR SECONDARY SCHOOL TEACHERS* (W007451); 19 MONTHS \$14,079

POLYTECHNIC INSTITUTE OF BROOKLYN

LIAO, THOMAS; *SUMMER INSTITUTE IN ENGINEERING CONCEPTS CURRICULUM PROJECT (ECCP) FOR SECONDARY SCHOOL TEACHERS* (W007022); 10 MONTHS \$39,337

FISCHER, GEORGE J; *SUMMER INSTITUTE IN CHEMISTRY & PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W007041); 10 MONTHS \$38,428

SOEHNGEN, HENRY F; *SHORT COURSE ON MUNICIPAL WASTE DISPOSAL FOR SECONDARY SCHOOL TEACHERS* (W007298); 10 MONTHS \$14,213

PRATT INSTITUTE

OGORMAN, JOHN MICHAEL; *SUMMER INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W007209); 10 MONTHS \$35,336

QUEENS COLLEGE

ZEVIN, JACK; *IN-SERVICE INSTITUTE IN SOCIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007488); 19 MONTHS \$23,531

RENSSELAER POLYTECHNIC INSTITUTE

BUNCE, STANLEY C; *SUMMER INSTITUTE IN MULTIPLE FIELDS FOR SECONDARY SCHOOL TEACHERS* (W006936); 10 MONTHS \$96,905

EPPENSTEIN, WALTER; *SUMMER INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W006997); 10 MONTHS \$55,773

STATE UNIVERSITY AT ALBANY

BOEHM, THOMAS A; *SUMMER INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007003); 10 MONTHS \$47,041

HERLIHY, JOHN G; *IN-SERVICE INSTITUTE IN MAN-A COURSE STUDY FOR SECONDARY SCHOOL TEACHERS* (W007458); 19 MONTHS \$13,643

STATE UNIVERSITY AT BINGHAMTON

COATES, DONALD R; *IN-SERVICE INSTITUTE IN MAN A COURSE OF STUDY FOR SECONDARY SCHOOL TEACHERS* (W007388); 19 MONTHS \$5,981

STATE UNIVERSITY AT BUFFALO

CAVIOR, STEPHAN R; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006939); 10 MONTHS \$40,116

SYRACUSE UNIVERSITY

SCHAFF, JOHN; *1971 SUMMER INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006233 001); \$4,509

EXNER, ROBERT M; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006907); 19 MONTHS \$46,150

SCHAFFER, LARRY; *SUMMER INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006947); 10 MONTHS \$48,415

GINSBURG, NATHAN; *SUMMER INSTITUTE IN PHYSICS AND CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W006978); 10 MONTHS \$41,460

COLLETTE, ALFRED T; *ACADEMIC YEAR INSTITUTE IN THE PREPARATION OF SCIENCE SUPERVISORS FOR SECONDARY SCHOOL TEACHERS* (W007038); 24 MONTHS \$100,536

COLLETTE, ALFRED T; *IN-SERVICE INSTITUTE IN PHYSICAL SCIENCE -ISCS FOR SECONDARY SCHOOL TEACHERS* (W007393); 19 MONTHS \$9,904

TEACHERS COLLEGE

VOGELI, BRUCE R; *SCHOOL INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007008); 10 MONTHS \$51,849

UNION COLLEGE

GILLETTE, EDWIN F; *SUMMER INSTITUTE IN MULTIPLE FIELDS FOR SECONDARY SCHOOL TEACHERS* (W006953); 10 MONTHS \$109,808

GILLETTE, EDWIN F; *IN-SERVICE INSTITUTE IN COMPUTER SCIENCE AND CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W007404); 19 MONTHS \$13,419

VASSAR COLLEGE

JOHNSEN, JOHN H; *SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007212); 10 MONTHS \$45,923

YESHIVA UNIVERSITY

GELBART, ABE; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007451); 19 MONTHS \$109,850

AMERICAN MUSEUM OF NATURAL HISTORY-HAYDEN PLANETARIUM

CHARTRAND III, MARK R; *SHORT COURSE ON ASTRONOMY FOR SECONDARY SCHOOL TEACHERS* (W007299); 10 MONTHS \$16,358

NORTH CAROLINA**DUKE UNIVERSITY**

GITHENS JR, SHERWOOD; *SUMMER INSTITUTE IN SCIENCE AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006934); 10 MONTHS \$100,246

EAST CAROLINA UNIVERSITY

SHEPPARD, MOSES M; *SUMMER INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007215); 10 MONTHS \$67,651

SOWELL, KATY O; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007117); 19 MONTHS \$11,987

ELIZABETH CITY STATE UNIVERSITY

SUTTON, LOUISE N; *SUMMER AND IN-SERVICE INSTITUTE IN PHYSICAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007197); 20 MONTHS \$60,850

MARS HILL COLLEGE

OUTTEN, L M; *SHORT COURSE ON BIOLOGY (BSCS GREEN VERSION) FOR SECONDARY SCHOOL TEACHERS* (W007310); 10 MONTHS \$9,023

NORTH CAROLINA ACADEMY OF SCIENCE

REARDON, ANNA JOYCE; *IN-SERVICE INSTITUTE IN RECENT ADVANCES IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W007337); 19 MONTHS \$5,261

NORTH CAROLINA AGRICULTURAL & TECH STATE UNIV

GRAVES, ARTIS P; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006886); 10 MONTHS \$53,917

UNIVERSITY OF NORTH CAROLINA AT ASHEVILLE

SQUIBB, S DEXTER; *IN-SERVICE INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W007340); 19 MONTHS \$7,509

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

HOUNSHELL, PAUL B; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006924); 10 MONTHS \$41,888

WHITE, WILLIAM A; *IN-SERVICE INSTITUTE IN PHYSICAL GEOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007444); 19 MONTHS \$1,927

WAKE FOREST UNIVERSITY

SEELBINDER, BEN M; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007400); 19 MONTHS \$11,072

WESTERN CAROLINA UNIVERSITY

CHAPMAN, JOHN J; *SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006999); 10 MONTHS \$52,107

NORTH DAKOTA

MINOT STATE COLLEGE

RICKEL, DAVID; *SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W007810); 10 MONTHS \$31,460

NORTH DAKOTA STATE UNIVERSITY

BRORBERG, JOEL W; *SUMMER INSTITUTE IN CHEMISTRY, PHYSICS AND ZOOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006981); 10 MONTHS \$38,033

KOOB, ROBERT D; *IN-SERVICE INSTITUTE IN CHEMISTRY VIDEO TAPED FOR SECONDARY SCHOOL TEACHERS* (W007501); 19 MONTHS \$12,282

UNIVERSITY OF NORTH DAKOTA

BEHRINGER, M P; *SUMMER INSTITUTE IN SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006968); 10 MONTHS \$64,813

HOWELL, FRANCIS L; *IN-SERVICE INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W007351); 19 MONTHS \$9,710

RAMSETT, DAVID E; *IN-SERVICE INSTITUTE IN ELEMENTARY ECONOMICS AND ECONOMIC EDUCATION FOR SECONDARY SCHOOL TEACHERS* (W007414); 19 MONTHS \$9,113

OHIO

ANTIOCH COLLEGE

CORWIN, JAMES F; *SUMMER INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006910); 10 MONTHS \$87,520

ASHLAND COLLEGE

TARBUCK, GEORGE; *IN-SERVICE INSTITUTE IN ECONOMICS FOR SECONDARY SCHOOL TEACHERS* (W007438); 19 MONTHS \$9,700

BALDWIN-WALLACE COLLEGE

MILLER, JOHN W; *SHORT COURSE ON THE LABORATORY CULTURE AND USE OF MARINE ORGANISMS FOR SECONDARY SCHOOL TEACHERS* (W007394); 10 MONTHS \$9,687

BOWLING GREEN STATE UNIVERSITY

LEETCH, J FREDERICK; *1970-71 ACADEMIC YEAR INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006914 001); 9 MONTHS \$1,896

KIRBY, WILLIAM A; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006930); 10 MONTHS \$48,251

HALL, W H; *SUMMER INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W006938); 10 MONTHS \$74,961

LEETCH, J FREDERICK; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007323); 19 MONTHS \$20,496

LEETCH, J FREDERICK; *1971-71 IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007633); 26 MONTHS \$19,306

CENTRAL STATE UNIVERSITY

HOLMES, DEFIELD T; *SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007028); 10 MONTHS \$44,893

JOHN CARROLL UNIVERSITY

NASH, HARRY C; *SUMMER INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W006960); 10 MONTHS \$6,818

NASH, HARRY C; *IN-SERVICE INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W007484); 19 MONTHS \$14,113

NASH, HARRY C; *IN-SERVICE INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W007475); 19 MONTHS \$14,264

NASH, HARRY C; *IN-SERVICE INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W007475 001); \$5,900

KENT STATE UNIVERSITY

CUMMINS, KENNETH B; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006847); 10 MONTHS \$58,949

CUMMINS, KENNETH B; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007325); 19 MONTHS \$10,678

PHILLIPS JR, JAMES A; *IN-SERVICE INSTITUTE IN SOCIAL SCIENCE: MAN - A COURSE OF STUDY-CDA NETWORK FOR SECONDARY SCHOOL TEACHERS* (W007475); 19 MONTHS \$10,967

MIAMI UNIVERSITY

WEIDNER, BRUCE V; *SUMMER INSTITUTE IN MULTIPLE FIELDS FOR SECONDARY SCHOOL TEACHERS* (W006889); 10 MONTHS \$58,661

VAUGHN, CHARLES M; *IN-SERVICE INSTITUTE IN AQUATIC BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007480); 19 MONTHS \$9,689

OHIO DOMINICAN COLLEGE

MATESICH, SR MARY ANDREW; *IN-SERVICE INSTITUTE IN BIOLOGY AND CHEMISTRY FOR SECONDARY SCHOOL TEACHERS* (W007411); 19 MONTHS \$4,822

OHIO STATE UNIVERSITY

SPIEKER, EDMUND M; *SUMMER INSTITUTE IN GEOLOGY FOR SECONDARY SCHOOL TEACHERS* (W006910); 10 MONTHS \$54,963

RINER, JOHN; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006970); 10 MONTHS \$90,423

MAYER, VICTOR J; *SUMMER INSTITUTE IN ENVIRONMENTAL SCIENCES FOR SECONDARY SCHOOL TEACHERS* (W007041); 20 MONTHS \$51,294

MAYER, VICTOR J; *SHORT COURSE ON JUNIOR HIGH SCHOOL SCIENCE PROGRAMS FOR PRINCIPALS AND CURRICULUM SUPERVISORS* (W007306); 10 MONTHS \$16,696

RILEY, WILLIAM R; *IN-SERVICE INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS* (W007338); 19 MONTHS \$11,930

MAYER, VICTOR J; *IN-SERVICE INSTITUTE IN ASTRONOMY (IAP) FOR SECONDARY SCHOOL TEACHERS* (W007432); 19 MONTHS \$9,962

OHIO UNIVERSITY

WARMKE, ROMAN; *1970-71 IN-SERVICE INSTITUTE IN ECONOMIC EDUCATION FOR SECONDARY SCHOOL TEACHERS* (W005816 001); 11 MONTHS \$1,800

MALCOM, PAUL S; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006889); 10 MONTHS \$45,209

WARMKE, ROMAN F; *SUMMER INSTITUTE IN CONSUMER ECONOMICS FOR SECONDARY SCHOOL TEACHERS* (W006891); 10 MONTHS \$47,201

DRAAYER, GERALD F; *IN-SERVICE INSTITUTE IN ECONOMIC EDUCATION FOR SECONDARY SCHOOL TEACHERS* (W007438); 19 MONTHS \$17,022

OHIO WESLEYAN UNIVERSITY

RUSSELL, LEONARD N; *SUMMER INSTITUTE IN PHYSICAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006981); 10 MONTHS \$61,960

UNIVERSITY OF CINCINNATI

ROLWING, RAYMOND H; *1971-72 ACADEMIC YEAR INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006488 001); \$7,638

HUETHER, CARL A; *SUMMER INSTITUTE ON THE POPULATION EXPLOSION FOR SECONDARY SCHOOL TEACHERS* (W007019); 10 MONTHS \$44,728

ROLWING, RAYMOND H; *ACADEMIC YEAR INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007019); 24 MONTHS \$135,945

ROLWING, RAYMOND H; *IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007373); 19 MONTHS \$24,303

UNIVERSITY OF DAYTON

MUSHENHEIM, H C; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006889); 10 MONTHS \$58,123

UNIVERSITY OF TOLEDO

GIBNEY, THOMAS C; *CONTRACT FOR AN EVALUATION OF SUMMER INSTITUTES FOR SECONDARY SCHOOL TEACHERS OF SCIENCES AND MATHEMATICS* (C677000); 12 MONTHS \$63,934

OKLAHOMA

NORTHWESTERN STATE COLLEGE

ROGERS, STEARNS WALTER; *IN-SERVICE INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS* (W007401); 19 MONTHS \$6,810

OKLAHOMA STATE UNIVERSITY

KOPECKY, H P; *SUMMER INSTITUTE IN ECONOMICS FOR SECONDARY SCHOOL TEACHERS* (W006869); 10 MONTHS \$64,245

STONE, JOHN E; *SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006945); 10 MONTHS \$34,218

PURVIS, J ROBERT; *IN-SERVICE INSTITUTE IN MAN - A COURSE OF STUDY (ANTHROPOLOGY) FOR SECONDARY SCHOOL TEACHERS* (W007489); 19 MONTHS \$11,702

SOUTHEASTERN STATE COLLEGE

DWIGHT, LESLIE A; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006906); 10 MONTHS \$59,860

SOUTHWESTERN STATE COLLEGE

HAMM, DONALD I; *SUMMER INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS* (W006882); 10 MONTHS \$60,929

MCKELLIPS, RAYMOND L; *SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W006835); 10 MONTHS \$61,177

MCKELLIPS, RAYMOND L; *1972 SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS* (W007482); 24 MONTHS \$61,199

UNIVERSITY OF OKLAHOMA

ANDREE, RICHARD V; 1970-71 IN-SERVICE INSTITUTE IN COMPUTER PROGRAMMING AND RELATED MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W004371 001); 8 MONTHS \$1,700

STOEYER JR, EDWARD C; SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS (W006615); 10 MONTHS \$47,206

STOEYER JR, EDWARD C; SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS (W006617); 10 MONTHS \$45,756

LARSH, HOWARD W; SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS (W006412); 10 MONTHS \$49,544

LEVY, GENE; SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006393); 10 MONTHS \$47,529

STOEYER JR, EDWARD C; ACADEMIC YEAR INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007057); 24 MONTHS \$151,252

ANDREE, RICHARD V; IN-SERVICE INSTITUTE IN COMPUTER PROGRAMMING AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007141); 19 MONTHS \$49,950

OREGON

EDUCATIONAL COORDINATING COUNCIL

MAIER, EUGENE A; OREGON SYSTEM IN MATHEMATICS EDUCATION (SUMMER PORTION) (W004411); 7 MONTHS \$194,253

MAIER, EUGENE A; OREGON SYSTEM IN MATHEMATICS EDUCATION (W004417 001); 12 MONTHS \$246,252

OREGON COLLEGE OF EDUCATION

REDBIRD-SELAM, HELEN M; SUMMER INSTITUTE IN SOCIOLOGY FOR SECONDARY SCHOOL TEACHERS (W007207); 20 MONTHS \$62,343

GALLAGHER, JAMES W; SUMMER INSTITUTE IN GEOGRAPHY FOR SECONDARY SCHOOL TEACHERS (W007436); 10 MONTHS \$71,626

OREGON STATE UNIVERSITY

FOX, FRED W; SUMMER INSTITUTE IN MULTIPLE FIELDS FOR SECONDARY SCHOOL TEACHERS (W006904); 10 MONTHS \$54,479

WILLIAMSON, STANLEY E; ACADEMIC YEAR INSTITUTE IN BASIC SCIENCES (EMPHASIS ON PHYSICAL SCIENCE) FOR SECONDARY SCHOOL TEACHERS (W007048); 24 MONTHS \$137,187

SIMONS, WILLIAM H; SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007124); 10 MONTHS \$11,500

REED COLLEGE

DAVIS, KENNETH E; IN-SERVICE INSTITUTE IN ENGINEERING CONCEPTS CURRICULUM PROJECT FOR SECONDARY SCHOOL TEACHERS (W007450); 19 MONTHS \$6,339

SOUTHERN OREGON COLLEGE

MCCOY, ROBERT A; SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006634); 10 MONTHS \$11,500

PURDOM, WILLIAM B; SUMMER INSTITUTE IN SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007009); 10 MONTHS \$58,157

UNIVERSITY OF OREGON - EUGENE

MOURSUND, A F; 1970-71 ACADEMIC YEAR INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W001799 001); \$2,121

MOURSUND, DAVID C; SUMMER INSTITUTE IN COMPUTER SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007422); 10 MONTHS \$11,500

MOURSUND, A F; SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007425); 10 MONTHS \$11,500

UNIVERSITY OF PORTLAND

WACK, PAUL E; SUMMER INSTITUTE IN INTEGRATED PHYSICS-CHEMISTRY FOR SECONDARY SCHOOL TEACHERS (W006903); 10 MONTHS \$51,621

PENNSYLVANIA

BEAVER COLLEGE

BREYER, ARTHUR C; SUMMER INSTITUTE IN CHEMISTRY FOR SECONDARY SCHOOL TEACHERS (W006832); 10 MONTHS \$56,992

CAMERON, SAMUEL M; SUMMER INSTITUTE IN SOCIAL SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007428); 10 MONTHS \$60,570

CARLOW COLLEGE

URICCHIO, WILLIAM A; IN-SERVICE INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS (W007437); 19 MONTHS \$11,891

DREXEL UNIVERSITY

FIELDS, EWAUGH F; SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007411); 10 MONTHS \$35,206

HAMMAN, ROBERT L; SUMMER AND IN-SERVICE INSTITUTE IN ECONOMICS FOR SECONDARY SCHOOL TEACHERS (W007429); 20 MONTHS \$60,370

EDINBORO STATE COLLEGE

SCHNEIDER, MICHAEL C; IN-SERVICE INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007456); 19 MONTHS \$18,216

FRANKLIN AND MARSHALL COLLEGE

KAUFFMAN, MARVIN E; SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS (W006470); 10 MONTHS \$17,004

KAUFFMAN, MARVIN E; 1973 SUMMER INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007420); 15 MONTHS \$75,577

GANNON COLLEGE

ZAGORSKI, STANLEY J; IN-SERVICE INSTITUTE IN ENVIRONMENTAL SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007449); 19 MONTHS \$13,983

LAFAYETTE COLLEGE

SAALFRANK, CHARLES W; IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY TEACHERS (W007486); 19 MONTHS \$11,190

LEHIGH UNIVERSITY

TAYLOR, DOUGLAS H; SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006883); 10 MONTHS \$39,902

MILLERSVILLE STATE COLLEGE

MCILWAINE, WILLIAM B; IN-SERVICE INSTITUTE IN BIOLOGY AND EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007497); 19 MONTHS \$17,208

PENNSYLVANIA STATE UNIVERSITY

HEIMER, RALPH T; SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS AND SUPERVISORS (W007011); 10 MONTHS \$42,337

BELL, PAUL E; SUMMER INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007048); 10 MONTHS \$48,585

JANSSON, LARS C; IN-SERVICE INSTITUTE IN MATHEMATICS AND COMPUTERS FOR SECONDARY TEACHERS (W007433); 19 MONTHS \$14,758

SEPTON HILL COLLEGE

RACZKOWSKI, BARBARA; SUMMER INSTITUTE IN ENVIRONMENTAL SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007404); 10 MONTHS \$48,177

TEMPLE UNIVERSITY

SLOOK, THOMAS H; IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007419); 19 MONTHS \$13,436

SCHMUCKLER, JOSEPH S; IN-SERVICE INSTITUTE IN INSTRUMENTAL METHODS FOR SECONDARY SCHOOL TEACHERS (W007444); 19 MONTHS \$8,354

MARTORELLA, PETER H; IN-SERVICE INSTITUTE IN ANTHROPOLOGY-FOCUS ON THE URBAN WORLD FOR SECONDARY SCHOOL TEACHERS (W007431); 19 MONTHS \$17,905

THIEL COLLEGE

INGERSOLL, RONALD J; SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS (W007202); 10 MONTHS \$37,823

UNIVERSITY OF PENNSYLVANIA

GEORGE, KENNETH D; IN-SERVICE INSTITUTE IN ENGINEERING CONCEPTS CURRICULUM PROJECT FOR SECONDARY SCHOOL TEACHERS (W007442); 19 MONTHS \$14,195

GIRAULT, EMILY S; IN-SERVICE INSTITUTE IN ANTHROPOLOGY AND SOCIOLOGY FOR SECONDARY SCHOOL TEACHERS (W007449); 19 MONTHS \$22,373

UNIVERSITY OF SCRANTON

BEIDLER, JOHN; SUMMER INSTITUTE IN MATHEMATICS AND COMPUTER SCIENCE FOR SECONDARY SCHOOL TEACHERS (W006819); 6 MONTHS \$30,140

STRICKLAND, HARRY B; IN SERVICE INSTITUTE IN SCIENCE FOR SECONDARY TEACHERS (W007465); 19 MONTHS \$13,975

VILLANOVA UNIVERSITY

EHRMANN, SR M CORDIA; IN-SERVICE INSTITUTE IN SCIENCE AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007338); 19 MONTHS \$34,551

WEST CHESTER STATE COLLEGE

BRANTON, RICHARD C; IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007470); 19 MONTHS \$24,705

PENNSYLVANIA STATE UNIVERSITY-MCKEESPORT CAMPUS

FETTE, C WILLIAM; IN-SERVICE INSTITUTE IN MODERN PHYSICS AND CHEMISTRY WITH COMPUTER APPLICATIONS FOR SECONDARY SCHOOL TEACHERS (W007436); 19 MONTHS \$11,988

PUERTO RICO

UNIVERSITY OF PUERTO RICO SYSTEM OFFICE-CAYEY UNIVERSITY COLLEGE

GARCIA, MARIANO; SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006877); 10 MONTHS \$49,764

RHODE ISLAND

BROWN UNIVERSITY

ESCHENBACHER, HERMAN F; ACADEMIC YEAR INSTITUTE IN SCIENCE INSTRUCTION IN URBAN SCHOOLS FOR SECONDARY SCHOOL TEACHERS (W007015); 24 MONTHS \$44,235

SOUTH CAROLINA

CITADEL THE MILITARY COLLEGE OF SOUTH CAROLINA

INGRAHAM, J R; 1970-71 IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W005437 001); 3 MONTHS \$110

INGRAHAM, J R; IN SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007316); 19 MONTHS \$10,160

SOUTH CAROLINA STATE COLLEGE

ROACHE, LEWIE C; SUMMER INSTITUTE IN SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007045); 10 MONTHS \$47,552

ROACHE, LEWIE C; IN-SERVICE INSTITUTE IN BIOLOGY AND CHEMISTRY FOR SECONDARY SCHOOL TEACHERS (W007149); 19 MONTHS \$20,296

UNIVERSITY OF SOUTH CAROLINA

WAHAB, J H; SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006935); 10 MONTHS \$38,220

SOUTH DAKOTA

MOUNT MARTY COLLEGE

FASBENDER, SR VERONICA; SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS (W007205); 10 MONTHS \$47,914

UNIVERSITY OF SOUTH DAKOTA

ESTEE, CHARLES R; COMPREHENSIVE INSTITUTIONAL PROJECT FOR IN-SERVICE TEACHER EDUCATION (W006365 001); 12 MONTHS \$420,067

EKMAN, WILLIAM E; SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006927); 10 MONTHS \$33,572

TENNESSEE

CHRISTIAN BROTHERS COLLEGE

DOODY, EDWARD; SUMMER INSTITUTE IN INTRODUCTORY PHYSICAL SCIENCE FOR SECONDARY SCHOOL TEACHERS (W006938); 10 MONTHS \$59,082

FISK UNIVERSITY

HULL JR, GEORGE; SUMMER INSTITUTE IN MULTIPLE FIELDS FOR SECONDARY SCHOOL TEACHERS (W006909); 10 MONTHS \$64,780

GEORGE PEABODY COLLEGE FOR TEACHERS

TOMLINSON, GUS; SUMMER INSTITUTE IN MULTIPLE FIELDS FOR SECONDARY SCHOOL TEACHERS (W006911); 10 MONTHS \$34,295

KNOXVILLE COLLEGE

COOPER, TRENTON; IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007393); 19 MONTHS \$7,673

MIDDLE TENNESSEE STATE UNIVERSITY

WISER, J ELDRED; SUMMER INSTITUTE IN SCIENCE AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS AND SUPERVISORS (W006917); 10 MONTHS \$81,125

TENNESSEE STATE UNIVERSITY

GASAWAY, SADIE C; SHORT COURSE ON MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007307); 10 MONTHS \$11,459

TENNESSEE TECHNOLOGICAL UNIVERSITY

FLETCHER JR, RICHARD K; IN-SERVICE INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007415); 19 MONTHS \$7,432

UNIVERSITY OF THE SOUTH

ELLIS, ERIC H; SUMMER INSTITUTE IN SCIENCE AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006910); 10 MONTHS \$60,558

VANDERBILT UNIVERSITY

RAY, OAKLEY S; 1971 SUMMER CONFERENCE ON DRUG USE AND ABUSE FOR SECONDARY SCHOOL TEACHERS (W006326 001); \$3,500

RAY, OAKLEY S; SHORT COURSE ON DRUG USE AND ABUSE FOR SECONDARY SCHOOL TEACHERS (W007300); 19 MONTHS \$33,749

RAY, OAKLEY S; SHORT COURSE IN DRUG USE AND ABUSE FOR SECONDARY SCHOOL TEACHERS (W007300 001); \$3,504

TEXAS

BAYLOR UNIVERSITY

TWEEDIE, VIRGIL L; SUMMER INSTITUTE IN MULTIPLE FIELDS FOR SECONDARY SCHOOL TEACHERS (W007029); 10 MONTHS \$49,321

EAST TEXAS STATE UNIVERSITY

ROHRER, CHARLES S; SUMMER INSTITUTE IN PHYSICAL SCIENCE FOR SECONDARY SCHOOL TEACHERS (W006856); 10 MONTHS \$58,027

INCARNATE WORD COLLEGE

ARMER, SR JOSEPH MARIE; IN SERVICE INSTITUTE IN BIOLOGY AND PHYSICAL SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007112); 19 MONTHS \$11,335

LAMAR UNIVERSITY

MATTHEWS III, WILLIAM H; SUMMER INSTITUTE IN EARTH SCIENCE (ESCP) FOR SECONDARY SCHOOL TEACHERS (W006911); 10 MONTHS \$4,886

RIGNEY, CARL J; SUMMER INSTITUTE IN PHYSICS AND ASTRONOMY FOR SECONDARY SCHOOL TEACHERS (W006919); 10 MONTHS \$43,753

NORTH TEXAS STATE UNIVERSITY

LUKER, WILLIAM A; SUMMER INSTITUTE IN ECONOMICS FOR SECONDARY SCHOOL TEACHERS (W006851); 10 MONTHS \$38,565

VEST, FLOYD; IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007383); 19 MONTHS \$8,027

LUKER, WILLIAM A; IN-SERVICE INSTITUTE IN ECONOMICS FOR SECONDARY SCHOOL TEACHERS (W007468); 19 MONTHS \$8,462

SAM HOUSTON STATE UNIVERSITY

MANKA, CHARLES K; SUMMER INSTITUTE IN ASTRONOMY FOR SECONDARY SCHOOL TEACHERS (W007143); 10 MONTHS \$35,114

SOUTHERN METHODIST UNIVERSITY

MCCOM, JOHN O; SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS (W007430); 10 MONTHS \$9,833

TEXAS A & M UNIVERSITY

SCHROEDER, MELVIN C; SUMMER INSTITUTE IN EARTH SCIENCES FOR SECONDARY SCHOOL TEACHERS (W006833); 10 MONTHS \$64,398

SCHROEDER, MELVIN C; IN-SERVICE INSTITUTE IN EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007142); 19 MONTHS \$12,893

TEXAS SOUTHERN UNIVERSITY

TERRY, ROBERT J; SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY SCHOOL TEACHERS (W006914); 10 MONTHS \$84,803

TEXAS TECH UNIVERSITY

RIGGS, CHARLES L; IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007107); 19 MONTHS \$9,036

TRINITY UNIVERSITY

GRAY, GARNETT G; SUMMER INSTITUTE IN PHYSICS FOR SECONDARY SCHOOL TEACHERS (W007018); 10 MONTHS \$45,130

UNIV OF TEXAS AT AUSTIN

LEE, ADDISON E; SUMMER INSTITUTE IN GENERAL SCIENCE FOR SECONDARY SCHOOL TEACHERS (W006911); 10 MONTHS \$72,265

LEE, ADDISON E; ACADEMIC YEAR INSTITUTE IN SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007035); 24 MONTHS \$121,844

UNIV OF TEXAS AT EL PASO

MILSON, JAMES L; SHORT COURSE ON ENVIRONMENTAL QUALITY FOR SECONDARY SCHOOL TEACHERS (W007301); 10 MONTHS \$10,324

UNIV OF TEXAS SYSTEM OFFICE

LEE, ADDISON E; 1974 SUMMER INSTITUTE IN SCIENCES FOR SECONDARY SCHOOL TEACHERS (W007631); 14 MONTHS \$70,723

UNIVERSITY OF HOUSTON

CRESWELL, JOHN L; IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007407); 19 MONTHS \$18,400

UTAH

UNIVERSITY OF UTAH

RIDD, MERRILL K; IN-SERVICE INSTITUTE IN EARTH SCIENCE-ESCP FOR SECONDARY SCHOOL TEACHERS (W006802); 13 MONTHS \$8,491

WAGNER, FREDRICK R; SUMMER INSTITUTE IN ENGINEERING FOR SECONDARY SCHOOL TEACHERS (W007216); 10 MONTHS \$36,511

DAVIS, E ALLAN; IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007361); 19 MONTHS \$16,043

UTAH STATE UNIVERSITY

HUNSAKER, NEVILLE C; SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006826); 10 MONTHS \$70,859

BRINGHURST, ANTONE H; IN-SERVICE INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007167); 19 MONTHS \$9,047

VERMONT

UNIVERSITY OF VERMONT

SCHOONMAKER, N JAMES; SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W006938); 10 MONTHS \$68,860

SCHOONMAKER, N JAMES; 1974 SUMMER INSTITUTE IN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007614); 15 MONTHS \$55,411

VIRGINIA

COLLEGE OF WILLIAM AND MARY
CATO JR, BENJAMIN R; SUMMER INSTITUTE IN MATHEMATICS FOR
SECONDARY SCHOOL TEACHERS (W006854); 10 MONTHS \$52,234

HAMPTON INSTITUTE

FIELDS, VICTOR H; SUMMER INSTITUTE IN CHEMISTRY, MATHE-
MATICS, AND PHYSICS FOR SECONDARY SCHOOL TEACHERS (W006971);
10 MONTHS \$59,859

FIELDS, VICTOR H; IN SERVICE INSTITUTE IN SCIENCE AND
MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007179); 19
MONTHS \$18,057

NORFOLK STATE COLLEGE

BROWN, PAUL L; SUMMER INSTITUTE IN BIOLOGY FOR SECONDARY
SCHOOL TEACHERS (W007013); 10 MONTHS \$49,104

OLD DOMINION UNIVERSITY

MARSHALL, HAROLD G; SUMMER INSTITUTE IN BIOLOGY FOR
SECONDARY SCHOOL TEACHERS (W007000); 10 MONTHS \$32,694

KERNELL, ROBERT L; IN-SERVICE INSTITUTE IN INTERDISCIPLINARY
PHYSICAL SCIENCE FOR SECONDARY SCHOOL TEACHERS
(W007339); 19 MONTHS \$13,377

RANDOLPH-MACON WOMAN'S COLLEGE

WHIDDEN, HELEN L; SUMMER INSTITUTE FOR SECONDARY SCHOOL
TEACHERS (W004937); 41 MONTHS \$64,541

UNIVERSITY OF VIRGINIA

THOMPSON, ERTLE; SUMMER INSTITUTE IN SCIENCE FOR SECON-
DARY SCHOOL TEACHERS (W007011); 10 MONTHS \$35,135

THOMPSON, ERTLE; ACADEMIC YEAR INSTITUTE IN SCIENCE
(EMPHASIS ON TRAINING SCIENCE SUPERVISORS AND COORDINA-
TORS) FOR SECONDARY SCHOOL TEACHERS (W007030); 24 MONTHS
\$128,179

THOMPSON, ERTLE; IN-SERVICE INSTITUTE IN SCIENCE AND
MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007170); 19
MONTHS \$51,126

VIRGINIA STATE COLLEGE

DUNN, RICHARD G; COMPREHENSIVE PROJECT IN BIOLOGY AND
EARTH SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007313); 23
MONTHS \$298,760

WASHINGTON

FORT WRIGHT COLLEGE OF THE HOLY NAMES

GAUTREAU, SR IONE; IN-SERVICE INSTITUTE IN SCIENCE AND
MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007333); 19
MONTHS \$16,929

GAUTREAU, IONE; 1973-74 IN-SERVICE INSTITUTE IN SCIENCE
AND MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (W007819); 25
MONTHS \$17,964

PACIFIC LUTHERAN UNIVERSITY

HERZOG, JOHN O; IN-SERVICE INSTITUTE IN MATHEMATICS FOR
SECONDARY SCHOOL TEACHERS (W007341); 19 MONTHS \$14,012

SEATTLE UNIVERSITY

COWGILL, REV JAMES J; SUMMER INSTITUTE IN MATHEMATICS
AND SCIENCE FOR SECONDARY SCHOOL TEACHERS (W006870); 10
MONTHS \$69,947

UNIVERSITY OF WASHINGTON

FLEMING, RICHARD H; SUMMER INSTITUTE IN EARTH SCIENCES
FOR SECONDARY SCHOOL TEACHERS (W006914); 10 MONTHS \$46,949

ARONS, ARNOLD; SUMMER INSTITUTE IN PHYSICS FOR SECONDARY
SCHOOL TEACHERS (W007013); 19 MONTHS \$69,080

STOEBE, THOMAS C; IN-SERVICE INSTITUTE IN MATERIALS
SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007432); 19 MONTHS
\$11,084

WASHINGTON STATE UNIVERSITY

LONG, CALVIN T; SUMMER INSTITUTE IN MATHEMATICS FOR
SECONDARY SCHOOL TEACHERS (W006933); 10 MONTHS \$43,720

BATEY JR, HARRY H; SUMMER INSTITUTE IN SCIENCE FOR SECON-
DARY SCHOOL TEACHERS (W006935); 10 MONTHS \$91,440

WISER, H C; SUMMER INSTITUTE IN MATHEMATICS FOR SECONDA-
RY SCHOOL TEACHERS (W006932); 10 MONTHS \$39,475

WISER, H C; 1973 SUMMER INSTITUTE IN MATHEMATICS FOR
SECONDARY SCHOOL TEACHERS (W007833); 13 MONTHS \$26,555

WESTERN WASHINGTON STATE COLLEGE

CRASWELL, KEITH J; SUMMER INSTITUTE IN MATHEMATICS FOR
SECONDARY SCHOOL TEACHERS (W006893); 10 MONTHS \$20,205

GELDER, HARVEY M; SUMMER INSTITUTE IN MATHEMATICS FOR
SECONDARY SCHOOL TEACHERS (W007198); 10 MONTHS \$43,918

CHRISTMAN, ROBERT A; SUMMER INSTITUTE IN EARTH SCIENCE
FOR SECONDARY SCHOOL TEACHERS (W007217); 10 MONTHS \$48,871

WEST VIRGINIA

BETHANY COLLEGE

SPENCE, JOHN A; SUMMER INSTITUTE IN PHYSICAL SCIENCE FOR
SECONDARY SCHOOL TEACHERS (W006860); 10 MONTHS \$41,186

WEST VIRGINIA UNIVERSITY

JOHNSON, ALONZO F; SUMMER INSTITUTE IN MATHEMATICS FOR
SECONDARY SCHOOL TEACHERS (W007006); 10 MONTHS \$51,609

PETERS, I DEE; IN-SERVICE INSTITUTE IN MATHEMATICS FOR
SECONDARY SCHOOL TEACHERS (W007351); 19 MONTHS \$33,733

WISCONSIN

MARQUETTE UNIVERSITY

CONNELLAN, MIRIAM E; SUMMER INSTITUTE IN MATHEMATICS
FOR SECONDARY SCHOOL TEACHERS (W006852); 10 MONTHS \$40,768

MILWAUKEE AREA TECHNICAL COLLEGE

MCHALE, THOMAS J; IN-SERVICE INSTITUTE IN TECHNICAL MATHE-
MATICS FOR SECONDARY SCHOOL TEACHERS (W007431); 19 MONTHS
\$6,536

RIPON COLLEGE

CARLEY, DAVID W; SUMMER INSTITUTE IN CHEMISTRY FOR
SECONDARY SCHOOL TEACHERS (W006859); 10 MONTHS \$37,846

UNIVERSITY OF WISCONSIN, GREEN BAY

BUSCH, JAMES W; IN-SERVICE INSTITUTE IN ENGINEERING CON-
CEPTS CURRICULUM PROJECT FOR SECONDARY TEACHERS (W007161);
19 MONTHS \$7,752

UNIVERSITY OF WISCONSIN, MADISON

WUERGER, WILLIAM W; SUMMER INSTITUTE IN ENGINEERING FOR
SECONDARY SCHOOL TEACHERS (W007080); 10 MONTHS \$58,545

HARVEY, JOHN G; ACADEMIC YEAR INSTITUTE IN SCIENCE AND
MATHEMATICS FOR SUPERVISORS AND SECONDARY SCHOOL
TEACHERS (W007041); 24 MONTHS \$175,062

UNIVERSITY OF WISCONSIN, MILWAUKEE

SCHMIEG, GLENN M; SUMMER INSTITUTE IN PHYSICS FOR SECON-
DARY SCHOOL TEACHERS (W006885); 10 MONTHS \$47,262

SCHUR, LEON M; SUMMER INSTITUTE IN SOCIAL SCIENCES FOR
SECONDARY SCHOOL TEACHERS (W007110); 19 MONTHS \$62,167

WISCONSIN STATE UNIVERSITY SYSTEM OFFICE

FAY, MARCUS J; SUMMER INSTITUTE IN FIELD BIOLOGY AND
ECOLOGY FOR SECONDARY SCHOOL TEACHERS (W006849); 6 MONTHS
\$50,447

HEATH, ROY E; SUMMER INSTITUTE IN ENVIRONMENTAL ASSESS-
MENT FOR SECONDARY SCHOOL TEACHERS (W006883); 10 MONTHS
\$49,674

WISCONSIN STATE UNIVERSITY, EAU CLAIRE

WICK, MARSHALL E; IN-SERVICE INSTITUTE IN MATHEMATICS FOR
SECONDARY SCHOOL TEACHERS (W007179); 19 MONTHS \$10,822

WISCONSIN STATE UNIVERSITY, RIVER FALLS

DOLLAHON, JAMES C; SUMMER INSTITUTE IN ENVIRONMENTAL
SCIENCE FOR SECONDARY SCHOOL TEACHERS (W006889); 10 MONTHS
\$32,613

HALL, LYLE C; IN-SERVICE INSTITUTE IN CHEMISTRY FOR SECON-
DARY SCHOOL TEACHERS (W007199); 19 MONTHS \$6,534

WISCONSIN STATE UNIVERSITY, SUPERIOR

DAILEY, DONALD M; IN-SERVICE SCIENCE EDUCATION IMPLEMEN-
TATION PROJECT FOR TEACHERS (W005866 002); \$8,662

BRIESKE, PHILLIP R; ACADEMIC YEAR INSTITUTE IN PHYSICS AND
PHYSICAL SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007040); 24
MONTHS \$69,963

BRIESKE, PHILLIP R; SUMMER INSTITUTE IN MULTIPLE FIELDS
FOR SECONDARY SCHOOL TEACHERS (W007220); 10 MONTHS \$100,000

DAILEY, DONALD M; IN-SERVICE INSTITUTE IN ENVIRONMENTAL
SCIENCE FOR THE DEVELOPMENT OF SECONDARY SCHOOL
RESOURCE PERSONNEL (W007360); 19 MONTHS \$4,704

KOCH, RUDY G; IN-SERVICE INSTITUTE IN ENVIRONMENTAL
SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007429); 19 MONTHS
\$29,946

BRIESKE, PHILLIP R; IN SERVICE INSTITUTE IN INTERMEDIATE
SCIENCE CURRICULUM STUDY (ISCS) FOR SECONDARY SCHOOL
TEACHERS (W007420); 19 MONTHS \$31,086

WISCONSIN STATE UNIVERSITY, WHITEWATER

VARNEY, CHARLES B; SUMMER INSTITUTE IN ENVIRONMENTAL
SCIENCE FOR SECONDARY SCHOOL TEACHERS (W007200); 10 MONTHS
\$56,631

WYOMING

UNIVERSITY OF WYOMING

HARDING, SAMUEL W; COMPREHENSIVE PROGRAM TO IMPROVE
THE TEACHING OF BIOLOGICAL AND/OR PHYSICAL SCIENCES IN THE

ROCKY MOUNTAIN AND PLAINS STATES (W004366 001); 12 MONTHS \$486,768

UNDERGRADUATE LEVEL

ALABAMA

BIRMINGHAM-SOUTHERN COLLEGE

WAITS, E DOUGLAS; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009356); 24 MONTHS \$2,000

FLORENCE STATE UNIVERSITY

MCINNIS, CHARLES RILEY; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009357); 24 MONTHS \$2,000

UNIVERSITY OF ALABAMA, TUSCALOOSA

ROGERS, DAVID T; SUMMER INSTITUTE ON ENVIRONMENT AND MAN FOR COLLEGE TEACHERS (Y009372); 12 MONTHS \$76,980

ROGERS, DAVID T; SUMMER INSTITUTE FOR COLLEGE TEACHERS (Y009378 001); \$1,750

DEASON, TEMD R; SHORT COURSE IN EXPERIMENTAL AND ENVIRONMENTAL PHYCOLOGY FOR COLLEGE TEACHERS (Y009393); 12 MONTHS \$38,790

DEASON, TEMD R; PHYCOLOGY FOR COLLEGE TEACHERS SHORT COURSE IN EXPERIMENTAL AND ENVIRONMENTAL (Y009393 001); \$1,050

UNIVERSITY OF SOUTH ALABAMA

LELONG, MICHEL GEORGE; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009353); 24 MONTHS \$2,000

ARKANSAS

UNIVERSITY OF ARKANSAS-UNIVERSITY OF ARKANSAS AT LITTLE ROCK

PRIOR, RICHARD M; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009495); 24 MONTHS \$2,000

BERMUDA

BERMUDA BIOLOGICAL STATION FOR RESEARCH INC

LEHMAN, H E; SUMMER INSTITUTE IN MARINE BIOLOGY, DEVELOPMENTAL PHYSIOLOGY, AND OCEANOGRAPHY FOR COLLEGE TEACHERS (Y009368); 12 MONTHS \$106,591

CALIFORNIA

CALIFORNIA STATE COLLEGE AT DOMINGUEZ HILLS

SEELY, OLIVER; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009549); 24 MONTHS \$2,000

CALIFORNIA STATE COLLEGE AT SONOMA

SPOSITO, GARRISON; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009540); 24 MONTHS \$2,000

ECK, DAVID L; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009551); 24 MONTHS \$2,000

CALIFORNIA STATE POLYTECHNIC UNIV, POMONA

HSIA, YU-PING; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009541); 24 MONTHS \$2,000

CARTMILL, CHARLES EARL; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009544); 24 MONTHS \$2,000

WOOTTON, WILLIAM T; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009547); 24 MONTHS \$2,000

CALIFORNIA STATE UNIVERSITY, CHICO

VOUGHT, ELDON J; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009546); 24 MONTHS \$2,000

CALIFORNIA STATE UNIVERSITY, FULLERTON

JANOTA, HARVEY F; SUMMER INSTITUTE FOR TRAINING TEACHERS OF CHEMICAL TECHNICIANS (Y009384); 12 MONTHS \$120,378

KREINER, JESA H; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009545); 24 MONTHS \$2,000

CALIFORNIA STATE UNIVERSITY, HUMBOLDT

ERSKINE, JANICE MARIE; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009548); 24 MONTHS \$2,000

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

GASTON, JACK LEONARD; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009543); 24 MONTHS \$2,000

CALIFORNIA STATE UNIVERSITY, SACRAMENTO

NEWCOMB, CHARLES PRESTON; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009539); 24 MONTHS \$2,000

CALIFORNIA STATE UNIVERSITY, SAN LUIS OBIS PO

COOMBS, LEE CHARLES; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009542); 24 MONTHS \$2,000

BUFFA JR, ANTHONY JOHN; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009552); 24 MONTHS \$2,000

ENDRES, LELAND S; RESEARCH PARTN FOR COLLEGE TCHRS-ACA YR. PHASE (Y009535); 24 MONTHS \$2,000

MODESTO JUNIOR COLLEGE

GOODROW, MARVIN H; RESEARCH PARTN FOR COLLEGE TCHR ACAD. YR. PHASE (Y009350); 24 MONTHS \$2,000

STANFORD UNIVERSITY

MASSELL, BENTON F; SUMMER INSTITUTE IN URBAN ECONOMIC FOR COLLEGE TEACHERS (Y009383); 12 MONTHS \$68,688

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

MEYER, WILLIAM H; SHORT COURSE IN MATHEMATICS FOR COLLEGE TEACHERS (Y009414); 24 MONTHS \$62,600

COLORADO

COLORADO STATE UNIVERSITY

CERMAK, J E; SUMMER INSTITUTE IN FLUID MECHANICS OF THE ENVIRONMENT FOR COLLEGE TEACHERS (Y009478); 12 MONTHS \$85,168

MCCLELLAN, J FORBES; SUMMER INSTITUTE IN FIELD BIOLOGY FOR COLLEGE TEACHERS (Y009385); 12 MONTHS \$64,339

TEMPLE BUELL COLLEGE

WHITTEMORE, CHARLES ALAN; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009517); 24 MONTHS \$2,000

UNIVERSITY OF COLORADO

BAILEY, DANIEL E; SUMMER INSTITUTE ON COMPUTER SCIENCE IN SOCIAL AND BEHAVIORAL SCIENCE RESEARCH FOR COLLEGE TEACHERS (Y009376); 12 MONTHS \$72,747

IVES, JACK D; SUMMER INSTITUTE IN MOUNTAIN ECOLOGY FOR COLLEGE TEACHERS (Y009381); 12 MONTHS \$43,889

UNIVERSITY OF DENVER

YEGGE, ROBERT B; SHORT COURSE IN SOCIAL SCIENCE METHODS IN LEGAL EDUCATION FOR COLLEGE TEACHERS (Y009407); 12 MONTHS \$67,985

UNIVERSITY OF NORTHERN COLORADO

SCHRECK, JAMES O; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009518); 24 MONTHS \$2,000

CONNECTICUT

SOUTHERN CONNECTICUT STATE COLLEGE

STEINMETZ JR, CHARLES; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009447); 24 MONTHS \$2,000

UNIVERSITY OF BRIDGEPORT

ZANDY, HASSAN F; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009448); 24 MONTHS \$2,000

WESLEYAN UNIVERSITY

RAMAN, KRISHNAN; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009446); 24 MONTHS \$2,000

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (61AWDS); \$1,018

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE

MAYOR, JOHN R; CHAUTAUQUA-TYPE SHORT COURSES FOR COLLEGE TEACHERS (Y008301 002); 12 MONTHS \$30,000

CATHOLIC UNIVERSITY OF AMERICA

WALLACE, WILLIAM A; SUMMER INSTITUTE ON THE ROLE OF MATHEMATICS IN THE DEVELOPMENT OF THE SCIENCES FOR COLLEGE TEACHERS (Y009363); 12 MONTHS \$80,278

MATHEMATICAL ASSOCIATION OF AMERICA

SPENCER, GUILFORD L; SUMMER INSTITUTE IN MATHEMATICS FOR COLLEGE TEACHERS (Y009367); 12 MONTHS \$76,034

NATIONAL INSTITUTE FOR APPLIED BEHAVIORAL SCIENCE

CALLAHAN, D G LAKE & D M; TEMPORARY SYSTEMS MANAGEMENT TRAINING AND EVALUATION (W006816*); 30 MONTHS \$43,000

FLORIDA

CHIPOLA JUNIOR COLLEGE

SIMS, JOYNER; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009437); 24 MONTHS \$2,000

ROLLINS COLLEGE

SKIDMORE, ALEXANDRA S; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009497); 24 MONTHS \$2,000

UNIVERSITY OF MIAMI

TEAS, HOWARD J; SUMMER INSTITUTE IN TROPICAL BOTANY FOR COLLEGE TEACHERS (Y009374); 12 MONTHS \$59,132

GEORGIA

AGNES SCOTT COLLEGE
REINHART, PHILIP B; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009300); 24 MONTHS \$2,000

AUGUSTA COLLEGE
TURNER, JANICE BUTLER; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009178); 24 MONTHS \$2,000

MIDDLE GEORGIA COLLEGE
HIEBER, ARLEEN DOROTHEA; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009189); 24 MONTHS \$2,000

HAWAII

UNIVERSITY OF HAWAII-MAUI COMMUNITY COLLEGE
PALMER, BRUCE; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009319); 24 MONTHS \$2,000

IDaho

BOISE STATE COLLEGE
COLBY, CONRAD; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009354); 24 MONTHS \$2,000

ILLINOIS

COLLEGE OF ST FRANCIS
MILLER, SHARON MONAHAN; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009302); 24 MONTHS \$2,000

ILLINOIS INSTITUTE OF TECHNOLOGY
WEINSTOCK, HAROLD; SUMMER INSTITUTE FOR COLLEGE TEACHERS (Y06831 001); \$594

WEINSTOCK, HAROLD; SUMMER INSTITUTE ON COMPUTER USE IN UNDERGRADUATE PHYSICS INSTRUCTION FOR COLLEGE TEACHERS (Y009374); 12 MONTHS \$74,495

ANAND, SUBHASH C; SUMMER INSTITUTE ON THE DESIGN OF STRUCTURES BY PRACTICING ENGINEERS FOR COLLEGE TEACHERS (Y009375); 12 MONTHS \$48,871

NORTHERN ILLINOIS UNIVERSITY
ALBRIGHT, CARL B; SHORT COURSE IN HIGH ENERGY PHYSICS FOR COLLEGE TEACHERS (Y009399); 12 MONTHS \$25,820

UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE
MCCAMMON, RICHARD B; SHORT COURSE IN CURRENT STATISTICAL METHODS IN GEOLOGY FOR COLLEGE TEACHERS (Y009401); 12 MONTHS \$28,338

UNIVERSITY OF ILLINOIS AT URBANA
MALMSTADT, HOWARD V; SHORT COURSE IN DIGITAL AND ANALOG ELECTRONICS FOR COLLEGE TEACHERS (Y009406); 12 MONTHS \$63,214

WESTERN ILLINOIS UNIVERSITY
MEIERDING, THOMAS CRAIG; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009301); 24 MONTHS \$2,000

INDIANA

INDIANA INSTITUTE OF TECHNOLOGY
MIYAKAWA, KOZABURO; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009307); 24 MONTHS \$2,000

PURDUE UNIVERSITY
HURST, ROBERT N; SHORT COURSE IN THE AUDIO-TUTORIAL SYSTEM OF INSTRUCTION FOR COLLEGE TEACHERS (Y009404); 12 MONTHS \$48,064

PERONE, SAM P; SHORT COURSE IN DIGITAL COMPUTERS IN CHEMICAL INSTRUMENTATION FOR COLLEGE TEACHERS (Y009405); 12 MONTHS \$46,318

ROSE-HULMAN INSTITUTE OF TECHNOLOGY
KRILE, THOMAS FRANCIS; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009305); 24 MONTHS \$2,000

ST JOSEPH'S COLLEGE
MEHALL, ANDREW G; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009303); 24 MONTHS \$2,000

UNIVERSITY OF EVANSVILLE
KUSHNER, JOSEPH B; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009304); 24 MONTHS \$2,000

WABASH COLLEGE
PARKS, ELDON RDY; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009306); 24 MONTHS \$2,000

PURDUE UNIVERSITY-FORT WAYNE REGIONAL CAMPUS
BECKER, BENJAMIN; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009308); 24 MONTHS \$2,000

IOWA

CENTRAL COLLEGE
HOEKSTRA, JOHN J; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009483); 24 MONTHS \$2,000

KANSAS

KANSAS WESLEYAN
CHIANG, YUAN C; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009484); 24 MONTHS \$2,000

KENTUCKY

CENTRE COLLEGE OF KENTUCKY
KNOWLES, REX H; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009459); 24 MONTHS \$2,000

UNIVERSITY OF LOUISVILLE
PIERCE, WILLIAM H; SUMMER INSTITUTE IN BIOMEDICAL ENGINEERING SCIENCES FOR COLLEGE TEACHERS (Y009370); 12 MONTHS \$78,078

WESTERN KENTUCKY UNIVERSITY
WAWRUKIEWICZ, ANTHONY S; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009458); 24 MONTHS \$2,000

LOUISIANA

NORTHEAST LOUISIANA UNIVERSITY
GENUSA, VINCENT ANTHONY; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009460); 24 MONTHS \$2,000

NORTHWESTERN STATE UNIVERSITY OF LOUISIANA
MCRAE, LARRY GENE; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009461); 24 MONTHS \$2,000

SOUTHERN UNIVERSITY-SOUTHERN UNIVERSITY IN NEW ORLEANS
MAJESTE, RICHARD J; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009462); 24 MONTHS \$2,000

MARYLAND

LOYOLA COLLEGE
MACKIW, GEORGE B; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009463); 24 MONTHS \$2,000

MT ST MARY'S COLLEGE
PALAITIS, WALDEMAR; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009466); 24 MONTHS \$2,000

ST JOSEPH COLLEGE
EBY, SR DENISE; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009467); 24 MONTHS \$2,000

TOWSON STATE COLLEGE
FIGLER, MICHAEL H; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009467); \$2,000

UNITED STATES NAVAL ACADEMY
CRUM, LAWRENCE A; SHORT COURSE IN LECTURE DEMONSTRATIONS IN PHYSICS FOR COLLEGE TEACHERS (AG00271); 12 MONTHS \$25,290

UNIVERSITY OF MARYLAND, EASTERN SHORE
SINGH, GURBAX; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009464); 24 MONTHS \$2,000

MASSACHUSETTS

GORDON COLLEGE
CAMP, RUSSELL R; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009474); 24 MONTHS \$2,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
GREEN JR, BEN A; SHORT COURSE IN THE KELLER PLAN FOR COLLEGE TEACHERS (Y009328); 12 MONTHS \$20,161

WILLIAMS COLLEGE
RDUSE JR, RICHARD O; SUMMER INSTITUTE IN EXPERIMENTAL PSYCHOLOGY FOR COLLEGE TEACHERS (Y009356); 12 MONTHS \$68,508

MICHIGAN

ALBION COLLEGE
HOGBERG, DAVID KLAS; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009343); 24 MONTHS \$2,000

CENTRAL MICHIGAN UNIVERSITY
HYERS, ALBERT D; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009344); 24 MONTHS \$2,000

HOPE COLLEGE
MARKER, DAVID GEORGE; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009341); 24 MONTHS \$2,000

SCHOOLCRAFT COLLEGE

ATCHLEY, RALPH W; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009343); 24 MONTHS \$2,000

ST CLAIR COUNTY COMMUNITY COLLEGE

ANECKI, LEO; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009340); 24 MONTHS \$2,000

UNIVERSITY OF MICHIGAN

BIDWELL, EDWIN L; SHORT COURSE IN CONSTRUCTION ENGINEERING FOR COLLEGE TEACHERS (Y009110); 12 MONTHS \$45,609

WESTERN MICHIGAN UNIVERSITY

POWELL, JAMES H; SHORT COURSE IN THE TEACHING OF CALCULUS USING COMPUTER METHODS FOR COLLEGE TEACHERS (Y009109); 12 MONTHS \$37,718

UNIVERSITY OF MICHIGAN-FLINT COLLEGE

COPE, VIROIL W; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009341); 24 MONTHS \$2,000

MINNESOTA**COLLEGE OF ST SCHOLASTICA**

SCHROEDER, BR DONNA; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009118); 24 MONTHS \$2,000

NORMANDALE STATE JUNIOR COLLEGE

NORLANDER, PAUL CARL; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009140); 24 MONTHS \$2,000

ST CLOUD STATE COLLEGE

EZELL, WAYLAND LEE; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009141); 24 MONTHS \$2,000

ST OLAF COLLEGE

ROBINSON, DAVID ATHONTON; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009142); 24 MONTHS \$2,000

MISSISSIPPI**JACKSON STATE COLLEGE**

GARRITY, EVELYN M; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009148); 24 MONTHS \$2,000

MISSISSIPPI VALLEY STATE COLLEGE

KHAN, SHARIF AHMAD; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009149); 24 MONTHS \$2,000

UNIVERSITY OF MISSISSIPPI

SMITH, CHARLES E; SUMMER INSTITUTE IN NUMERICAL SOLUTION TECHNIQUES IN ELECTROMAGNETIC FIELD THEORY FOR COLLEGE TEACHERS (Y009371); 12 MONTHS \$47,550

MISSOURI**COLUMBIA COLLEGE**

GREV, DENNIS M; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009115); 24 MONTHS \$2,000

DRURY COLLEGE

GREEVER, JOE CARROLL; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009116); 24 MONTHS \$2,000

SOUTHEAST MISSOURI STATE COLLEGE

SOELLNER, ARTHUR M; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009118); 24 MONTHS \$2,000

SOUTHWEST MISSOURI STATE COLLEGE

GRINDSTAFF, WYMAN K; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009117); 24 MONTHS \$2,000

NEBRASKA**KEARNEY STATE COLLEGE**

KAUFMAN, DONALD ALLEN; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009316); 24 MONTHS \$2,000

UNIVERSITY OF NEBRASKA AT LINCOLN

FULLER, ROBERT G; SHORT COURSE IN THE FILM LOOP INSTRUCTIONAL COURSE IN PHYSICS FOR COLLEGE TEACHERS (Y009100); 12 MONTHS \$27,243

UNIVERSITY OF NEBRASKA AT OMAHA

FREIVALD, JOSEPH A; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009317); 24 MONTHS \$2,000

NEW HAMPSHIRE**UNIVERSITY OF NEW HAMPSHIRE, DURHAM**

LYLE, ROBERT E; SHORT COURSE IN SPECTROSCOPIC AND CHROMATOGRAPHIC TECHNIQUES FOR COLLEGE TEACHERS (Y009387); 12 MONTHS \$28,582

NEW JERSEY**BLOOMFIELD COLLEGE**

SIEGEL, MARSHALL M; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009147); 24 MONTHS \$2,000

NEWARK COLLEGE OF ENGINEERING

TRATTNER, RICHARD; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009150); 24 MONTHS \$2,000

WILLIAM PATERSON COLLEGE

LA, SUNG YUN; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009149); 24 MONTHS \$2,000

FAIRLEIGH DICKINSON UNIVERSITY-FLORHAM-MADISON CAMPUS

MULTER, H GRAY; SHORT COURSE IN MODERN CARBONATE SEDIMENTS AND RELATED CARBONATE ROCKS FOR COLLEGE TEACHERS (Y009398); 12 MONTHS \$25,707

FAIRLEIGH DICKINSON UNIVERSITY-TEANECK CAMPUS

LIBERLES, ARNO; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009148); 24 MONTHS \$2,000

NEW YORK**BARNARD COLLEGE**

DEVONS, SAMUEL; SUMMER INSTITUTE IN THE HISTORY OF PHYSICS FOR COLLEGE TEACHERS (Y009388); 12 MONTHS \$47,606

COLGATE UNIVERSITY

POWNALL, MALCOLM W; SHORT COURSE IN CATEGORY THEORY FOR COLLEGE TEACHERS (Y009390); 12 MONTHS \$39,963

COLLEGE AT BROCKPORT

RUMAGE, KENNARD W; SUMMER INSTITUTES ON NEW APPROACHES IN GEOGRAPHY FOR COLLEGE TEACHERS (Y009338); 12 MONTHS \$66,890

COLLEGE AT FREDONIA

FAHNESTOCK, ROBERT K; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009144); 24 MONTHS \$2,000

COLLEGE AT GENESEO

REBER, JERRY D; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009145); 24 MONTHS \$2,000

COLLEGE AT OSWEGO

HYDE, KENNETH E; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009138); 24 MONTHS \$2,000

COLLEGE AT PLATTSBURGH

LEE, DANIEL C; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009143); 24 MONTHS \$2,000

LOACH, KENNETH W; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009111); 24 MONTHS \$2,000

MAMMANO, NICHOLAS; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009114); 24 MONTHS \$2,000

COLLEGE AT POTSDAM

ALEXANDER, ANNIE LAURER; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009146); 24 MONTHS \$2,000

COLUMBIA UNIVERSITY

WOLTJER, LODEWYK; SUMMER INSTITUTE IN ASTRONOMY FOR COLLEGE TEACHERS (Y009381); 12 MONTHS \$62,610

CORNELL UNIVERSITY

LUCAS, WILLIAM F; SUMMER INSTITUTE ON DETERMINISTIC METHODS IN OPERATIONS RESEARCH FOR COLLEGE TEACHERS (Y009359); 12 MONTHS \$75,790

MARDEN, PARKER G; SUMMER INSTITUTE IN SOCIAL DEMOGRAPHY AND POPULATION POLICY FOR COLLEGE TEACHERS (Y009360); 12 MONTHS \$73,803

HERKIMER COUNTY COMMUNITY COLLEGE

PELZ, WILLIAM E; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009146); 24 MONTHS \$2,000

HOUGHTON COLLEGE

CHRISTENSEN, LARRY WAYNE; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009145); 24 MONTHS \$2,000

MARIST COLLEGE

PERROTTE JR, WILLIAM T; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009144); 24 MONTHS \$2,000

POLYTECHNIC INSTITUTE OF BROOKLYN

PIEL, E J; SHORT COURSE ON THE ENGINEERING CONCEPTS CURRICULUM FOR COLLEGE TEACHERS (Y009391); 12 MONTHS \$49,406

PRATT INSTITUTE

PRAKASH, HARI; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE (Y009146); 24 MONTHS \$2,000

BENNSALEM POLYTECHNIC INSTITUTE

RICHTOL, HERBERT H; *SUMMER INSTITUTE IN INSTRUMENTAL METHODS OF ANALYSIS FOR COLLEGE TEACHERS* (Y009365); 12 MONTHS \$55,948

GROSS, ERIC T B; *SHORT COURSE IN EXPERIMENTAL ANALYSES OF ELECTRICAL MACHINES FOR COLLEGE TEACHERS* (Y009383); 12 MONTHS \$26,066

ST LAWRENCE UNIVERSITY

KAZAKS, PETER A; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009140); 24 MONTHS \$2,000

SUFFOLK COUNTY COMMUNITY COLLEGE

RUDDEN, MATTHEW J; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009143); 24 MONTHS \$2,000

UNIVERSITY OF ROCHESTER

DALTON, J CHRISTOPHER; *SUMMER INSTITUTE IN ORGANIC PHOTOCHEMISTRY FOR COLLEGE TEACHERS* (Y009394); 12 MONTHS \$40,884

THOMPSON, BRIAN J; *SHORT COURSE IN CONTEMPORARY OPTICS FOR COLLEGE TEACHERS* (Y009389); 12 MONTHS \$29,056

UTICA COLLEGE

PRATT, THOMAS EDWARD; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009147); 24 MONTHS \$2,000

NORTH CAROLINA**APPALACHIAN STATE UNIVERSITY**

SOEDER, ROBERT WALTER; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009174); 24 MONTHS \$2,000

BELMONT ABBEY COLLEGE

CELECIA, JUAN FELIX; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009176); 24 MONTHS \$2,000

CAMPBELL COLLEGE

BURNSIDE, DALE FREDERICK; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009172); 24 MONTHS \$2,000

LIVINGSTONE COLLEGE

MUNAVALLI, SOMASHEKHAR; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009170); 24 MONTHS \$2,000

LOUISBURG COLLEGE

BURRIS, KENNETH WAYNE; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009171); 24 MONTHS \$2,000

PFEIFFER COLLEGE

JACKMAN, DONALD COE; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009175); 24 MONTHS \$2,000

REGIONAL ED LAB FOR THE CAROLINAS & VIRGINIA

STRALEY, JOSEPH W; *REVITALIZATION OF THE FRESHMAN-SOPHOMORE PHYSICS PROGRAM AT TWENTY COLLEGES* (Y009231 002); 12 MONTHS \$25,000

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

WALKER, ROBERT P; *SUMMER INSTITUTE IN MATHEMATICS FOR COLLEGE TEACHERS* (Y009346); 12 MONTHS \$55,675

WARREN WILSON COLLEGE

COLLINS, DONALD FAIRLEY; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009173); 24 MONTHS \$2,000

OHIO**BALDWIN-WALLACE COLLEGE**

SMITH, CALVIN ALBERT; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009313); 24 MONTHS \$2,000

DENISON UNIVERSITY

KLATT, KENNETH PAUL; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009311); 24 MONTHS \$2,000

MARY MANSE COLLEGE

SAMPSON, JAMES ROBERT; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009310); 24 MONTHS \$2,000

MOUNT UNION COLLEGE

EPP, LEONARD; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009312); 24 MONTHS \$2,000

OHIO STATE UNIVERSITY

SCHWIRIAN, KENT P; *SHORT COURSE IN MODELS OF URBAN SPATIAL ECOLOGY AND POPULATION* (Y009397); 12 MONTHS \$42,979

OHIO UNIVERSITY

OVERBY, CHARLES M; *SHORT COURSE ON ENGINEERING AND THE TECHNOLOGICAL SOCIETY FOR COLLEGE TEACHERS* (Y009398); 12 MONTHS \$16,554

WRIGHT STATE UNIVERSITY

MALONE, PHILIP GARCIN; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009309); 24 MONTHS \$2,000

OKLAHOMA**BETHANY-NAZARENE COLLEGE**

REINBOLD, PAUL EARL; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009320); 24 MONTHS \$2,000

NORTHWESTERN STATE COLLEGE

ROGERS, STEARNS WALTER; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009340); 24 MONTHS \$2,000

ORAL ROBERTS UNIVERSITY

MAY, HUBERT EUGENE; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009331); 24 MONTHS \$2,000

SOUTHWESTERN STATE COLLEGE

JONES, RAY CHRISTENSEN; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009338); 24 MONTHS \$2,000

WOLGAMOTT, GARY DEAN; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009337); 24 MONTHS \$2,000

OREGON**OREGON STATE UNIVERSITY**

JENSEN, J GRANVILLE; *SUMMER INSTITUTE IN SYSTEMS ANALYSIS OF LAND USE PROBLEMS FOR COLLEGE TEACHERS* (Y009380); 12 MONTHS \$35,179

WILLAMETTE UNIVERSITY

THORSETT, GRANT; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009333); 24 MONTHS \$2,000

PENNSYLVANIA**BUCKNELL UNIVERSITY**

ALLEN, JOHN C; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009163); 24 MONTHS \$2,000

DUQUESNE UNIVERSITY

CHANG, SHIH-CHI; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009177); 24 MONTHS \$2,000

EDINBORO STATE COLLEGE

WAGNER, DAVID L; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009161); 24 MONTHS \$2,000

KEYSTONE JUNIOR COLLEGE

JOSEPH, ERAT S; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009176); 24 MONTHS \$2,000

LAFAYETTE COLLEGE

JAMES JR, LAYLIN K; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009172); 24 MONTHS \$2,000

MILLERSVILLE STATE COLLEGE

PARKS, JAMES C; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009180); 24 MONTHS \$2,000

PENNSYLVANIA STATE UNIVERSITY

MCCARTHY, GREGORY J; *SUMMER INSTITUTE IN SOLID STATE AND MATERIALS CHEMISTRY FOR COLLEGE TEACHERS* (Y009373); 12 MONTHS \$62,167

DAS, MUKUNDA B; *SHORT COURSE IN FOUNDATIONS OF INTEGRATED CIRCUITS FOR COLLEGE TEACHERS* (Y009396); 12 MONTHS \$45,046

THIEL COLLEGE

NEWTON, MERVIN E; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009182); 24 MONTHS \$2,000

WAYNESBURG COLLEGE

THAN, AUNG; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009181); 24 MONTHS \$2,000

RHODE ISLAND**BROWN UNIVERSITY**

SCHUPACK, MARK B; *SUMMER INSTITUTE ON APPLICATIONS OF MICRO-ECONOMIC THEORY TO PUBLIC POLICY PROBLEMS FOR COLLEGE TEACHERS* (Y009357); 12 MONTHS \$60,394

SOUTH CAROLINA**ALLEN UNIVERSITY**

SINGH, PIARA; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009188); 24 MONTHS \$2,000

SOUTH CAROLINA STATE COLLEGE

CLARK, CARL OLIVER; *RESEARCH PARTN FOR COLLEGE TCHRS-ACAD. YR. PHASE* (Y009187); 24 MONTHS \$2,000

UNIVERSITY OF SOUTH CAROLINA

DURIG, JAMES R; *SUMMER INSTITUTE ON ELECTRICAL AND MAGNETIC PHENOMENA OF INORGANIC MATERIALS FOR COLLEGE TEACHERS* (Y009365); 12 MONTHS \$50,908

POOLE JR, CHARLES P; *SHORT COURSE IN ELECTRON SPIN RESONANCE FOR COLLEGE TEACHERS* (Y009394); 12 MONTHS \$26,702

VOORHEES COLLEGE

YOLZ, DONALD J; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD.
YR. PHASE (Y009188); 24 MONTHS \$2,000

UNIVERSITY OF SOUTH CAROLINA-UNION CAMPUS

WANG, JIH-MING; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD.
YR. PHASE (Y009189); 24 MONTHS \$2,000

SOUTH DAKOTA**AUGUSTANA COLLEGE**

WEITZE, CHARLES EARL; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009531); 24 MONTHS \$2,000

HADWIN, DONALD W; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009532); 24 MONTHS \$2,000

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

DOORNINK, DEAN GRAHAM; RESEARCH PARTN FOR COLLEGE
TCHRS-ACAD. YR. PHASE (Y009533); 24 MONTHS \$2,000

TENNESSEE**SOUTHWESTERN AT MEMPHIS**

TAYLOR, J H; SHORT COURSE IN OPTICS FOR COLLEGE TEACHERS
(Y009100); 12 MONTHS \$17,592

TENNESSEE TECHNOLOGICAL UNIVERSITY

HARRIS, JOHN W; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD.
YR. PHASE (Y009311); 24 MONTHS \$2,000

ATKINSON, DANIEL A; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009312); 24 MONTHS \$2,000

TUSCULUM COLLEGE

SHEN, MING-LIANG; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD.
YR. PHASE (Y009515); 24 MONTHS \$2,000

UNIVERSITY OF TENNESSEE, KNOXVILLE

PETERSEN, RONALD H; SHORT COURSE ON THE ROLE OF BASIDIO-
MYCETES IN THE FOREST ECOSYSTEM FOR COLLEGE TEACHERS
(Y009102); 12 MONTHS \$30,330

VANDERBILT UNIVERSITY

BOGITSCH, BURTON J; SHORT COURSE IN HISTOCHEMISTRY FOR COL-
LEGE TEACHERS (Y009104); 12 MONTHS \$29,237

TEXAS**ABILENE CHRISTIAN COLLEGE**

HUTCHINSON, BENNETT; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009558); 24 MONTHS \$2,000

MIDWESTERN UNIVERSITY

HOLVERSON, EDWIN L; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009559); 24 MONTHS \$2,000

PAN AMERICAN UNIVERSITY

WALLACE, CHARLES RAY; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009537); 24 MONTHS \$2,000

RICE UNIVERSITY

THRALL, ROBERT M; SUMMER INSTITUTE IN MODEL BUILDING AND
STATISTICS FOR COLLEGE TEACHERS (Y009186); 12 MONTHS \$62,253

TEXAS SOUTHWEST COLLEGE

SULLIVAN, JAMES RODNEY; RESEARCH PARTN FOR COLLEGE
TCHRS-ACAD. YR. PHASE (Y009556); 24 MONTHS \$2,000

UNIV OF TEXAS AT AUSTIN

MATSEN, F A; SHORT COURSE IN THE VECTOR SPACE THEORY OF
MATTER FOR COLLEGE TEACHERS (Y009117); 12 MONTHS \$41,364

UNIVERSITY OF HOUSTON

MAHONEY, LEO G; IMPROVEMENT OF SCIENCE EDUCATION FOR
BLACK AND LATIN-AMERICAN COLLEGE TEACHERS (Y009119); 12
MONTHS \$29,815

WAYLAND BAPTIST COLLEGE

THOMPSON, GERALD; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009555); 24 MONTHS \$2,000

UTAH**UTAH STATE UNIVERSITY**

SMERAGE, GLEN H; SUMMER INSTITUTE IN SYSTEMS APPROACH TO
THE LIFE SCIENCES FOR COLLEGE TEACHERS (Y009152); 12 MONTHS
\$78,658

VERMONT**UNIVERSITY OF VERMONT**

MYERS, CHARLES C; SYMPOSIUM ON FOREST BIOMETRY (Y009314); 5
MONTHS \$2,000

VIRGINIA**HAMPDEN-SYDNEY COLLEGE**

PORTERFIELD, WILLIAM W; RESEARCH PARTN FOR COLLEGE
TCHRS-ACAD. YR. PHASE (Y009180); 24 MONTHS \$2,000

WASHINGTON AND LEE UNIVERSITY

NEWBOLT, WILLIAM BARLOW; RESEARCH PARTN FOR COLLEGE
TCHRS-ACAD. YR. PHASE (Y009189); 24 MONTHS \$2,000

WASHINGTON**GONZAGA UNIVERSITY**

NAKAMAYE, KAY LEE; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009538); 24 MONTHS \$2,000

WASHINGTON STATE UNIVERSITY

BUSH, K A; SUMMER INSTITUTE ON MATHEMATICAL APPROACHES
TO ECONOMIC PROBLEMS FOR COLLEGE TEACHERS (Y009377); 12
MONTHS \$78,028

WHITMAN COLLEGE

TEMPLETON, J CHARLES; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009537); 24 MONTHS \$2,000

WEST VIRGINIA**CONCORD COLLEGE**

CHAPMAN, CARL J; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD.
YR. PHASE (Y009193); 24 MONTHS \$2,000

WEST VIRGINIA INSTITUTE OF TECHNOLOGY

MOULDER, JERRY W; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009191); 24 MONTHS \$2,000

PAINTAL, AKREEK; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD.
YR. PHASE (Y009192); 24 MONTHS \$2,000

WEST VIRGINIA STATE COLLEGE

PAYLOS, ANDREW JOHN; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009194); 24 MONTHS \$2,000

WISCONSIN**MILWAUKEE SCHOOL OF ENGINEERING**

KOBISKE, RONALD A; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009154); 24 MONTHS \$2,000

NORTHLAND COLLEGE

HAUKAAS, HARVEY B; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009148); 24 MONTHS \$2,000

WISCONSIN STATE UNIVERSITY, PLATTEVILLE

OBRIEN, JOHN T; RESEARCH PARTN FOR COLLEGE TCHRS-ACAD.
YR. PHASE (Y009153); 24 MONTHS \$2,000

WISCONSIN STATE UNIVERSITY, STEVENS POINT

RAZDAN, KAMESHWAR N; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009147); 24 MONTHS \$2,000

LANO, CONRAD MARVIN; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009152); 24 MONTHS \$2,000

WISCONSIN STATE UNIVERSITY, WHITEWATER

SHINNERS, CARL WILLIAM; RESEARCH PARTN FOR COLLEGE
TCHRS-ACAD. YR. PHASE (Y009150); 24 MONTHS \$2,000

LETTENBERGER, ROBERT; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009151); 24 MONTHS \$2,000

UNIVERSITY OF WISCONSIN CENTERS-SHEBOYGAN COUNTY CAMPUS

PENESKI, THOMAS J; RESEARCH PARTN FOR COLLEGE TCHRS-
ACAD. YR. PHASE (Y009149); 24 MONTHS \$2,000

INSTRUCTIONAL PROGRAM DEVELOPMENT**PRE-COLLEGE LEVEL****ALABAMA****SPRING HILL COLLEGE**

KEARLEY JR, FRANCIS J; COOPERATIVE COLLEGE SCHOOL SCIENCE
(W007166); 19 MONTHS \$39,358

UNIVERSITY OF ALABAMA IN BIRMINGHAM

PEARSON, COLIN A; COOPERATIVE COLLEGE SCHOOL SCIENCE
(W007165); 19 MONTHS \$27,782

ARIZONA**ARIZONA STATE UNIVERSITY**

MUNCH, T W; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007071); 19
MONTHS \$33,654

STALEY, FREDERICK A; COOPERATIVE COLLEGE SCHOOL SCIENCE
(W007082); 20 MONTHS \$25,197

STADMILLER, J E; ARIZONA THE MAN-MADE WORLD INFORMATION AWARENESS CONFERENCES (W007145); 18 MONTHS \$9,800

ARKANSAS

SOUTHERN STATE COLLEGE

DODSON, B C; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007108); 19 MONTHS \$36,879

UNIVERSITY OF ARKANSAS

ANDERSON, RICHARD J; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007167); 19 MONTHS \$29,340

CALIFORNIA

ASIA FOUNDATION

SCHWANTES, ROBERT S; TRAVEL OF ASIAN PARTICIPANTS TO NSF SUPPLEMENTARY TRAINING PROGRAMS (W003090 001); 12 MONTHS \$11,200

CALIFORNIA COMMITTEE ON REGIONAL MEDICAL PROG

HUGHES, LEONARD A; THE BIOMEDICAL INTERDISCIPLINARY CURRICULUM PROJECT (W006813); 21 MONTHS \$125,000

CALIFORNIA STATE COLLEGE AT BAKERSFIELD

COASH, JOHN R; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007088); 19 MONTHS \$39,206

CALIFORNIA STATE COLLEGE AT SONOMA

KIENTZ, MARVIN L; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007068); 19 MONTHS \$26,653

CALIFORNIA STATE UNIVERSITY, FRESNO

ZIEGLER, STANLEY M; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007078); 20 MONTHS \$32,291

CALIFORNIA STATE UNIVERSITY, FULLERTON

COLLEA, FRANCIS P; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007073); 20 MONTHS \$36,164

LAY, L CLARK; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007189); 19 MONTHS \$40,456

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

FIELSTRA, HELEN; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007282); 20 MONTHS \$39,907

CONTRA COSTA COUNTY DEPARTMENT OF EDUCATION

CASTELLANI, GEORGE J; MARINE ECOLOGY STUDY FOR STUDENTS AND TEACHERS OF ALAMEDA AND CONTRA COSTA COUNTIES (W004717 001); \$6,369

CASTELLANI, GEORGE J; MARINE ECOLOGY ST FOR STUDENT TEACHERS ALAMEDA & CONTRA COSTA COUNTIES (W006711 002); 16 MONTHS \$32,564

PALACE OF ARTS AND SCIENCE FOUNDATION

OFFENHEIMER, FRANK; STUDENT SCIENCE PROJECT PROGRAM AT THE EXPLORATORIUM (W006699 001); 17 MONTHS \$26,471

OFFENHEIMER, FRANK; DEVICHERENT SERIPART EXHIBITS F THE PALACE/ARTS & SCI EXPLORAT IN S FR (W006818); 15 MONTHS \$73,200

UNIVERSITY OF CALIFORNIA, BERKELEY

KARPLUS, ROBERT; SCIENCE CURRICULUM IMPROVEMENT STUDY (E002914 011); \$160,000

ROSENFELD, ARTHUR H. AND SHERMAN, N; COMPUTER-BASED SELF-INSTRUCTIONAL COURSE FOR SUPPLEMENTARY TRAINING OF SECONDARY SCHOOL TEACHERS OF PHYSICS (W005061 001); 3 MONTHS \$15,300

PORTIS, ALAN M; CENTER OF EXCELLENCE IN SCIENCE EDUCATION (W008812 001*); 14 MONTHS \$143,000

LAETSCH, W M; OUTDOOR BIOLOGY-INSTRUCTIONAL STRATEGIES (W006830); 15 MONTHS \$100,000

BARANCO, LYNN R; COOPERATIVE COLLEGE-SCHOOL SCIENCE PROGRAM (W007100); 20 MONTHS \$61,747

HENKIN, LEON; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007132); 20 MONTHS \$61,160

LOWERY, LAWRENCE F; CONFERENCE ON SCIENCE PROJECTS FOR ADMINISTRATORS AND SUPERVISORS OF ELEMENTARY EDUCATION SCIS, ESS, SAPA, ES, MACOS (W007289); 18 MONTHS \$16,000

UNIVERSITY OF CALIFORNIA, DAVIS

FRENCH, JEAN G; THE BIOMEDICAL INTERDISCIPLINARY CURRICULUM PROJECT (W006801); 9 MONTHS \$50,000

FRENCH, JEAN; THE BIOMEDICAL INTERDISCIPLINARY CURRICULUM PROJECT (W006801 001); 12 MONTHS \$46,100

UNIVERSITY OF CALIFORNIA, IRVINE

LENHOFF, HOWARD M; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007282); 20 MONTHS \$17,475

UNIVERSITY OF REDLANDS

KRANTZ, REINHOLD J; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007111); 19 MONTHS \$18,004

UNIVERSITY OF SOUTHERN CALIFORNIA

WHITE, PAUL A; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007282); 20 MONTHS \$39,579

COLORADO

NONE; OTHER PROGRAM AWARDS (01AWDS); \$4

SOCIAL SCIENCE EDUCATION CONSORTIUM INC

MORRISSETT, IRVING; IMPROVEMENT, ANALYSIS AND USE OF SOCIAL SCIENCE CURRICULUM MATERIALS, K-12 (W008477 003); 3 MONTHS \$5,800

MORRISSETT, IRVING; IMPROVEMENT, ANALYSIS, AND USE OF SOCIAL SCIENCE CURRICULUM MATERIALS, K-12 (W008477 004*); 30 MONTHS \$174,604

UNIVERSITY OF COLORADO

FENG, CHUAN C; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007091); 21 MONTHS \$39,535

WAILES, JAMES R; SUMMER CONF CONCERNING NEW SCI CURRICULA FOR DIR / ELEMENTARY EDUCATION (W007254); 18 MONTHS \$13,856

FENG, CHUAN C; LEADERSHIP PREP F IMPLEMENTATION/COMPUTING SCIENCE ALO I/ITRIG COURSE (W007261); 18 MONTHS \$42,500

COUSINS, JACK, AND STEVENS, N W JR; LEADERSHIP PREPARATION FOR IMPLEMENTATION OF SOCIAL STUDIES CURRICULA (W007263); 18 MONTHS \$97,300

WAILES, JAMES R; SHORT COURSE ON NATIONAL CURRICULAR STUDIES FOR SCIENCE SUPERVISORS AND COLLEGE PERSONNEL (W007301*); 10 MONTHS \$3,120

UNIVERSITY OF DENVER

HOFFMAN, RUTH; LEADERSHIP PREP F IMPLEMENTATION OF ENG CONCEPTS CURRICULUM PROJECT (W007270); 18 MONTHS \$40,300

AMME, ROBERT C; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007289); 19 MONTHS \$37,764

UNIVERSITY OF COLORADO-COLORADO SPRINGS CENTER

SHERMAN, JACK E; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007155); 18 MONTHS \$16,426

UNIVERSITY OF COLORADO-DENVER CENTER

MCCLATHERY, GLENN; LEADERSHIP PREP F IMPLEMENTATION/SCI CURRICULUM IMPROVEMENT STUDY (W007272*); 18 MONTHS \$42,800

CONNECTICUT

CENTRAL CONNECTICUT STATE COLLEGE

GOODSTEIN, MADELINE P; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007157); 19 MONTHS \$27,362

GOODSTEIN, MADELINE P; COOPERATIVE COLLEGE-SCHOOL SCIENCE PROGRAM (W007157 001); \$2,646

MENTZER, RICHARD L; LEADERSHIP PREPARATION FOR IMPLEMENTATION OF THE UICSM PROJECT FOR UNDERACHIEVERS IN MATHEMATICS (W007258); 18 MONTHS \$28,100

UNIVERSITY OF CONNECTICUT

DUDA, EDWARD J; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007140); 20 MONTHS \$32,594

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (08AWDS); \$13,523

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE

MAYOR, JOHN R; COMMISSION ON SCIENCE EDUCATION (G022286 015); 18 MONTHS \$215,400

AMERICAN FRIENDS OF THE MIDDLE EAST INC

CRIPPIN, VIRGIL C; TRAVIMID EASTERN PARTICIPANTS TO NSF SUPPLEMENTARY TRAINING PROGRAMS (W003380 002); 12 MONTHS \$1,500

AMERICAN GEOLOGICAL INSTITUTE

ROMEY, WILLIAM D, AND SAMPLES, ROBERT E; ENVIRONMENTAL STUDIES FOR URBAN YOUTH (W005387 005); \$5,000

SAMPLES, ROBERT; LEADERSHIP PREP F IMPLEMENTATION/THE ENVIRONMENTAL STUDIES PROJECT (W007264); 18 MONTHS \$31,900

AMERICAN POLITICAL SCIENCE ASSOCIATION

MEHLINGER, HOWARD D; POLIT SCI COURSE CONT IMPROVEMENT PROJ FOR ELEM & SECONDARY SCHOOLS (W006810); 12 MONTHS \$193,100

AMERICAN UNIVERSITY

SCHUBERT, LEO; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007070); 19 MONTHS \$31,818

ASSOC FOR SUPERVISON & CURRICULUM DEVELOPMENT

WILHELMS, FRED T; LDERSHP PREP F IMPLMNTAN CRSE/ST W ADDED REFER TO OTH NSF SPONS CUR (W007244); 18 MONTHS \$13,200

EXOTECH SYSTEMS INC

EHRMAN, LIBERT; DATA PROCESSING AND TABULATION OF STUDENT PARTICIPANT DATA FOR 1974 AND 1975 SSTP PROGRAM (W003019 002); 6 MONTHS \$6,493

NATIONAL SCIENCE TEACHERS ASSOCIATION

RIZER, FRANKLIN D; SEVEN REGIONAL CONFERENCES ON SCIENCE EDUCATION IN THE ELEMENTARY AND SECONDARY SCHOOLS OF THE NATION (W006809*); 12 MONTHS \$5,400

NTL INSTITUTES FOR APPLIED BEHAVIORAL SCIENCE

CALLAHAN, D O LAKE & D M; TEMPORARY SYSTEMS MANAGEMENT TRAINING AND EVALUATION (W006816*); 30 MONTHS \$55,000

ORGANIZATION OF AMERICAN STATES/PAN AMER UNION

PERKINSON, JESSE D; TRAVEL/LATIN AMER PARTICIPANTS TO SUPPLEMENTARY TRAINING PROGRAMS (W003089 001); 12 MONTHS \$1,900

SMITHSONIAN INSTITUTION

MARSH, CARYL A; EXPERIMENTAL TOUCH EXHIBIT-NATIONAL MUSEUM OF NATURAL HISTORY (W007843); 12 MONTHS \$50,000

FLORIDA**FLORIDA STATE UNIVERSITY**

REDFIELD, DAVID D, AND SNYDER, WILLIAM R; INTERMEDIATE SCIENCE CURRICULUM STUDY (W001433 001); 12 MONTHS \$130,000

CLARK, LAWRENCE; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007177); 19 MONTHS \$41,713

FLORIDA TECHNOLOGICAL UNIVERSITY

BRENNAN, J J; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007101); 19 MONTHS \$31,649

UNIVERSITY OF SOUTH FLORIDA

MONLEY, LAURENCE E; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007069); 19 MONTHS \$27,891

KOPP, E W; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007152); 19 MONTHS \$43,458

BULLOCK, JOHN T; LEADERSHIP PREP F IMPLEMENTATION OF SCI CURRICULUM IMPROVEMENT STUDY (W007214); 18 MONTHS \$13,300

KOPP, E W; LEADERSHIP PREP F IMPLEMENTATION OF ENG CONCEPTS CURRICULUM PROJECT (W007269); 18 MONTHS \$60,400

GEORGIA**EMORY UNIVERSITY**

SIMMONS, JAMES W; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007164); 19 MONTHS \$24,280

GEORGIA STATE UNIVERSITY

RIEDEL, C ALAN; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007138); 18 MONTHS \$34,145

SAVANNAH STATE COLLEGE

TUCKER, WILLIE G; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007171); 19 MONTHS \$1,541

UNIVERSITY OF GEORGIA

RICKER, KENNETH S; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007135); 20 MONTHS \$31,070

HAWAII**UNIVERSITY OF HAWAII**

CARR, ALBERT B; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007169); 19 MONTHS \$21,579

LANG, MELVIN; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007190); 19 MONTHS \$35,836

IDAHO**UNIVERSITY OF IDAHO**

RIGAS, A L; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007080); 19 MONTHS \$39,465

GARRARD, VERL G; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007089); 14 MONTHS \$39,456

ILLINOIS**AURORA COLLEGE**

RICHARDSON, LLOYD M; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007111); 19 MONTHS \$22,421

RICHARDSON, LLOYD M; COOP COLLEGE-SCH SCIENCE PROG (W007111 001); \$1,056

CHICAGO STATE COLLEGE

CHOOS, RAMONA G; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007285); 20 MONTHS \$43,129

ILLINOIS INSTITUTE OF TECHNOLOGY

SCHUG, KENNETH; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007094); 19 MONTHS \$26,577

ILLINOIS STATE UNIVERSITY

EDWARDS, THOMAS F; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007173); 19 MONTHS \$42,531

NORTHERN ILLINOIS UNIVERSITY

WEAVER, ALLEN D; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007096); 17 MONTHS \$37,766

UNIVERSITY OF ILLINOIS AT URBANA

ZWOYER, RUSSELL; NINTH GRADE MATHEMATICS COURSE (W004547 001); 14 MONTHS \$22,800

SHORESMAN, PETER B; UICSM PROJECT ON ELEMENTARY SCHOOL MATHEMATICS AND SCIENCE (W004534 000); 15 MONTHS \$141,300

SHORESMAN, PETER B; ELEMENTARY SCHOOL MATHEMATICS AND SCIENCE (W004534 003); 12 MONTHS \$31,800

INDIANA**BALL STATE UNIVERSITY**

MCCORMICK, ROY L; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007248); 18 MONTHS \$37,836

INDIANA STATE UNIVERSITY

BRUCE, LARRY; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007118); 20 MONTHS \$47,630

INDIANA UNIVERSITY, BLOOMINGTON

HANVEY, ROBERT G; ANTHROPOLOGY CASE MATERIALS PROJECT (W003039 001); 31 MONTHS \$47,000

HARRIS, PHILLIP L; THE ADAPTATION OF PROGRAMED TUTORING TO BEGINNING MATHEMATICS (W0046711 002); \$33,400

ENGLE, SHIRLEY H; ORIENTATION CONF ON THE SOC STUD F CURRICULUM DIR SUPERVISORS & PRIN (W007147); 18 MONTHS \$19,885

INDIANA UNIVERSITY, INDIANAPOLIS

ALTON, ELAINE V; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007117); 19 MONTHS \$64,817

PURDUE UNIVERSITY

KROCKOVER, GERALD H; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007130); 19 MONTHS \$30,216

NORDLAND, FLOYD H; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007131); 20 MONTHS \$28,145

KROCKOVER, GERALD H; SUMMER CONF FOR ELEMENTARY & MIDDLE SCH ADM ON NEW SCIENCE CURRICULA (W007233); 18 MONTHS \$20,493

PURDUE UNIVERSITY-INDIANAPOLIS REGIONAL CAMPUS

COHEN, MICHAEL R; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007121); 19 MONTHS \$52,133

IOWA**DRAKE UNIVERSITY**

JOSLIN, PAUL H; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007127); 19 MONTHS \$40,961

UNIVERSITY OF IOWA

MCADAM, JOHN E; SUMMER CONF F SECONDARY SCH ADM CONCERNING CURR PROG IN SOCIAL STUD (W007445); 18 MONTHS \$16,620

LOOMER, BRADLEY M; SUMMER CONF FOR ELEMENTARY SCH ADM CONCERNING NEW SCIENCE CURRICULA (W007248); 18 MONTHS \$14,242

UNIVERSITY OF NORTHERN IOWA

UNRUH, ROY D; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007122); 18 MONTHS \$32,073

KANSAS**KANSAS STATE COLLEGE OF PITTSBURG**

COLTHARP, FORREST L; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007116); 19 MONTHS \$40,991

KANSAS STATE TEACHERS COLLEGE OF EMPORIA

MENHUSEN, BERNADETTE; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007133); 14 MONTHS \$11,519

KENTUCKY**EASTERN KENTUCKY UNIVERSITY**

MAHR, J C; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007174); 18 MONTHS \$34,678

MOREHEAD STATE UNIVERSITY

NAIL, BILLY R; FOL-UP PROG F IMPLEMENT/CRSE CONT&PEDAGOG TECH IN UICSM H SCH MATH C 1 (W007248); 18 MONTHS \$47,500

UNIVERSITY OF KENTUCKY

COLEMAN, DONALD B; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007171); 20 MONTHS \$26,986

UNIVERSITY OF LOUISVILLE

GEESLIN, ROGER H; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007168); 19 MONTHS \$36,449

WESTERN KENTUCKY UNIVERSITY

SIX, N FRANK; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007148); 19 MONTHS \$32,881

CRUMB, GLENN H. AND STEVENSON, ROBERT L; LEADERSHIP PREP F IMPLEMENTATION OF SCI CURRICULUM IMPROVEMENT STUDY (W007173); 18 MONTHS \$50,700

LOUISIANA

GRAMBLING COLLEGE

YOUNG, PHILLIP L; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007091); 20 MONTHS \$27,692

MCNEESE STATE UNIVERSITY

LEJEUNE, STANLEY J; LEADERSHIP PREP F IMPLEMENTATION/ICSM PROG F SLOW LEARNERS AND UNDERACHIEV (W007143); 18 MONTHS \$29,000

NICHOLLS STATE UNIVERSITY

SACHS, JULES B; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007133); 18 MONTHS \$25,738

NORTHWESTERN STATE UNIVERSITY OF LOUISIANA

WASKOM, JOHN D; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007180); 19 MONTHS \$31,802

MAINE

UNIVERSITY OF MAINE, FARMINGTON

GODOMSKY JR, STEPHEN F; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007088); 19 MONTHS \$37,592

MARYLAND

NONE, OTHER PROGRAM AWARDS (01AWDS); \$6,867

MORGAN STATE COLLEGE

TAYLOR, JULIUS H; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007087); 19 MONTHS \$28,875

UNIVERSITY OF MARYLAND, COLLEGE PARK

CRONIN, L EUGENE, AND KORMONDY, EDWARD; FOUR MOTION PICTURES IN SOCIAL BIOLOGY (W006713 001); \$81,100

GARDNER, MARJORIE; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007099); 20 MONTHS \$38,353

CIRRINCIONE, JOSEPH M; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007170); 20 MONTHS \$39,324

MASSACHUSETTS

BOSTON COLLEGE

LADD, GEORGE T; CONFERENCES FOR IMPROVEMENT OF SCI INSTR (W007121); 18 MONTHS \$12,900

EASTERN NAZARENE COLLEGE

KEHOE, DANIEL K; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007067); 15 MONTHS \$32,455

EDUCATION DEVELOPMENT CENTER

LOMON, EARLE L; UNIFIED SCIENCE AND MATHEMATICS FOR ELEMENTARY SCHOOLS (W005207 001); 5 MONTHS \$25,400

LOMON, E L; UNIFIED SCIENCE & MATHEMATICS FOR ELEMENTARY SCHOOLS (W005107 001); \$374,239

DEVORE, IRVEN; A SECONDARY SCHOOL COURSE, 'EXPLORING HUMAN NATURE' (W001209 002); 18 MONTHS \$425,000

DEVORE, IRVEN; PROPOSAL F A TEACHER EDUCATION PROGRAM F EXPLORING HUMAN NATURE (W005209 001); 12 MONTHS \$227,700

CHURCHILL JR, J M B; ACTIVITIES RELATED TO SCIENCE EDUCATION (W006856); 24 MONTHS \$49,500

NEWTON COLLEGE

HABER-SCHAIM, URI; COMPLETION OF A SECOND YEAR COURSE TO FOLLOW THE INTRODUCTORY PHYSICAL SCIENCE COURSE (W008719 001); 7 MONTHS \$17,300

HABER-SCHAIM, URI; COMPLETION OF THE PHYSICAL SCIENCE II IMPLEMENTATION PROGRAM (W006797 001); 6 MONTHS \$5,500

TUFTS UNIVERSITY

GIBSON, JOHN S; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007093); 19 MONTHS \$27,776

WESTFIELD STATE COLLEGE

TAYLOR, J KENNETH; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007087); 20 MONTHS \$29,442

MICHIGAN

CENTRAL MICHIGAN UNIVERSITY

SWART, WILLIAM L; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007139); 15 MONTHS \$33,486

EASTERN MICHIGAN UNIVERSITY

BUCKEY, DONALD A; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007088); 20 MONTHS \$33,001

MICHIGAN STATE UNIVERSITY

MCLEOD, RICHARD J; LEADERSHIP PREP F IMPLEMENTATION/INTERMEDIATE SCI CURR STUDY MATERIALS (W007168); 18 MONTHS \$60,800

BERKHEIMER, GLENN D; LEADERSHIP PREP FOR IMPLEMENTATION/SCI CURRICULUM IMPROVEMENT ST MTRLS (W007171); 18 MONTHS \$70,300

WAYNE STATE UNIVERSITY

YOUNKSTETER, FRANK O; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007079); 20 MONTHS \$60,814

WESTERN MICHIGAN UNIVERSITY

MALLINSON, GEORGE G; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007108); 19 MONTHS \$10,744

MINNESOTA

GUSTAVUS ADOLPHUS COLLEGE

HILDING, STEPHEN; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007178); 18 MONTHS \$19,810

ST CLOUD STATE COLLEGE

NAPPI, ANDREW T; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007175); 20 MONTHS \$28,368

UNIVERSITY OF MINNESOTA

KISSOCK, CRAIG, AND WANGEN, ROGER; LEADERSHIP PREPARATION FOR IMPLEMENTATION OF ANTHROPOLOGY CURRICULUM STUDY PROJECT, SOCIOLOGICAL RESOURCES FOR THE SOCIAL STUDIES, AND HIGH SCHOOL GEOGRAPHY PROJECT (W007185); 18 MONTHS \$62,300

MISSISSIPPI

ALCORN AGRICULTURAL AND MECHANICAL COLLEGE

EDNEY, NORRIS ALLEN; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007085); 19 MONTHS \$25,931

DELTA STATE COLLEGE

HOWELL, DAISY; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007146); 19 MONTHS \$39,512

MISSISSIPPI VALLEY STATE COLLEGE

FINGAL, WILLIAM A; LEADERSHIP PREP F IMPLEMENTATION/ELEM SCI AND MATH CURRICULA MINNEMAST (W007159); 18 MONTHS \$48,400

UNIVERSITY OF SOUTHERN MISSISSIPPI

BROWN, IVA D; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007085); 13 MONTHS \$25,702

IRBY, B N; LEADERSHIP PREPARATION OF SCHOOL PERSONNEL FOR IMPLEMENTATION OF CURRICULUM DECISIONS (W007141); 18 MONTHS \$11,400

MISSOURI

NORTHWEST MISSOURI STATE COLLEGE

KENNER, HORTON R; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007192); 18 MONTHS \$22,819

MONTANA

EASTERN MONTANA COLLEGE

SCHOENTHAL, NORMAN; LEADERSHIP PREPARATION FOR IMPLEMENTATION OF SCIS, AAAS AND ESS, DISSEMINATION WORKSHOP (W007239); 18 MONTHS \$12,500

MONTANA STATE UNIVERSITY

KUTZMAN, N J; SCIENCE TEACHING ASSISTANCE CENTER (W007182); 24 MONTHS \$102,900

NORTHERN MONTANA COLLEGE

PITT, C EVERETT; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007114); 19 MONTHS \$55,421

NEBRASKA

UNIVERSITY OF NEBRASKA AT LINCOLN

SIMS, WARD L; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007071); 17 MONTHS \$17,174

NEW HAMPSHIRE

PLYMOUTH STATE COLLEGE

BILHEIMER, MARY; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007119); 19 MONTHS \$18,427

SYLVESTRE, MARK T; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007121); 20 MONTHS \$7,081

NEW JERSEY

GEORGIAN COURT COLLEGE

FARLEY, SR MARY NICHOLAS; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007188); 20 MONTHS \$31,003

MONTCLAIR STATE COLLEGE

MINOR, BEN; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007083); 19 MONTHS \$29,164

TRENTON STATE COLLEGE

PREGGER, FRED T; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007124); 20 MONTHS \$40,883

NEW MEXICO**NEW MEXICO STATE UNIVERSITY**

CARDEN, FRANK F; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007183); 19 MONTHS \$28,189

NEW YORK

PALDY, LESTER G; OTHER PROGRAM AWARDS (01AWDS); 13 MONTHS \$35,600

COLLEGE AT BUFFALO

SWARTNEY, I JOYCE; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007110); 20 MONTHS \$40,968

SCHWARTZ, DONALD; SPRING CONF F PRINCIPALS/INNER-CITY HIGH SCH CONC SOCIAL SCI CURRICULA (W007156); 18 MONTHS \$7,120

COLUMBIA UNIVERSITY

BEHNKE, FRANCES; OUT OF SCHOOL SCIENCE PROGRAM FOR JUNIOR HIGH SCHOOL STUDENTS OF JOAN OF ARC NEW YORK CITY (W004718 001); 12 MONTHS \$32,298

HOFSTRA UNIVERSITY

SPARBERG, ESTHER B; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007184); \$26,013

JERICHO PUBLIC SCHOOLS

VERDONE, JOSEPH S; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007290); 19 MONTHS \$3,576

LONG ISLAND UNIVERSITY

HELLMAN, MORTON J; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007199); 20 MONTHS \$42,941

NEW YORK UNIVERSITY

SHAMOS, MORRIS H; COMPLETION OF TEACHERS GUIDES FOR A NEW ELEM SCI CURRICULUM (COPE) (W006811); 13 MONTHS \$69,800

POLYTECHNIC INSTITUTE OF BROOKLYN

BRAUN, LUDWIG; DEVELOPMENT OF COMPUTER-SIMULATION MATERIAL (W005884 001); 12 MONTHS \$20,300

BRAUN, LUDWIG; DEVELOPMENT OF COMPUTER-SIMULATION MATERIAL (W005883 002); 8 MONTHS \$20,000

BRAUN, LUDWIG; DEVELOPMENT OF COMPUTER-SIMULATION MATERIALS (W005882 003); 24 MONTHS \$124,900

STATE UNIVERSITY AT STONY BROOK

BREDDERMAN, THEODORE A; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007185); 19 MONTHS \$13,117

SYRACUSE UNIVERSITY

DAVIS, ROBERT B; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007145); 20 MONTHS \$28,890

DAVIS, ROBERT B; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007184); 20 MONTHS \$37,686

DAVIS, ROBERT B; LEADERSHIP PREP F IMPLEMENTATION/THE MADISON PROJ CURRICULUM (W007847); 18 MONTHS \$44,700

OSWALD, JAMES M; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007293); 20 MONTHS \$26,338

TEACHERS COLLEGE

ROWE, MARY BUDD; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007183); 19 MONTHS \$25,781

UNIVERSITY OF ROCHESTER

MONTEAN, JOHN J; SPG CONF F TEAMS/SEC SCH ADM&TCHER LEADERS ON THE ENVIRON STUD CURR (W007355); 18 MONTHS \$7,510

HEALTH RESEARCH INC-ROSWELL PARK DIVISION

MIRAND, EDWIN A; STUDENT SCIENCE TRAINING PROGRAM (W004063 001*); \$209

NORTH CAROLINA**APPALACHIAN STATE UNIVERSITY**

ROBINSON, KENT; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007111); 19 MONTHS \$26,689

EAST CAROLINA UNIVERSITY

MATTHEIS, FLOYD E; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007113); 19 MONTHS \$43,942

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

SPEECE, HERBERT E, AND BLAKEWAY, EDWARD G; LEADERSHIP PREP FOR IMPLEMENTATION OF ENG CONCEPT CURRICULUM PROJECT (W007270); 18 MONTHS \$84,200

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

SCHLECHTY, PHILLIP C; LEADERSHIP PREP F IMPLEMENTATION/SOCIAL RESOURCES F THE SOCIAL STUDIES (W007860); 18 MONTHS \$62,600

NORTH DAKOTA**NORTH DAKOTA STATE UNIVERSITY**

HILL, LOREN W; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007158); 19 MONTHS \$16,791

OHIO**ANTIOCH COLLEGE**

PLUMER, STEPHEN B; A PROPOSED LONGITUDINAL, COMPARATIVE STUDY OF EFFECTS AND IMPACTS OF 'MAN. A COURSE OF STUDY' (MACOS) (W007827); 4 MONTHS \$49,400

FEDERATION FOR UNIFIED SCIENCE EDUCATION

SHOWALTER, VICTOR; ESTABLISHMENT OF FUSE CENTER FOR UNIFIED SCIENCE EDUCATION (W007821); 12 MONTHS \$82,200

MIAMI UNIVERSITY

MOORE, RICHARD W; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007066); 18 MONTHS \$13,451

OHIO STATE UNIVERSITY

LANGUIS, MARLIN; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007114); 19 MONTHS \$28,247

THOMSON, BARBARA S; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007153); 18 MONTHS \$31,378

OHIO UNIVERSITY

LIGHT, KENNETH H; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007074); 20 MONTHS \$46,855

OKLAHOMA**OKLAHOMA STATE UNIVERSITY**

KOPECKY, H P; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007081); 21 MONTHS \$44,866

HECOCK, RICHARD D; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007122); 20 MONTHS \$47,166

JOHNSTEN, T D; LEADERSHIP PREP F IMPLEMENTING CONCEPTS CURR F SECONDARY SCH TCHERS (W007218); 18 MONTHS \$44,100

OREGON**PORTLAND STATE UNIVERSITY**

JORGENSEN, HAROLD C; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007090); 14 MONTHS \$28,581

LANGE, ERWIN F; SUMMER CONF FOR ELEMENTARY SCH ADM CONCERNING NEW SCIENCE CURRICULA (W007251); 18 MONTHS \$14,596

UNIVERSITY OF OREGON - EUGENE

HARRIS, WILLIAM H; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007112); 20 MONTHS \$42,067

UNIVERSITY OF PORTLAND

WHITE, CHARLES C; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007136); 20 MONTHS \$25,566

PENNSYLVANIA**CLARION STATE COLLEGE**

MECHLING, KENNETH R; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007129); 19 MONTHS \$36,464

EDINBORO STATE COLLEGE

CURRIE, JAMES F; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007194); 19 MONTHS \$23,787

ELIZABETHTOWN COLLEGE

ZIEGLER, ROBERT E; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007120); 19 MONTHS \$21,284

INDIANA UNIVERSITY OF PENNSYLVANIA

RIBAN, DAVID M; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007145); 20 MONTHS \$24,530

PENNSYLVANIA DEPARTMENT OF EDUCATION

EDGAR, IRVIN T; CONFERENCES TO MOBILIZE LEADERSHIP FOR CHANGE IN ELEMENTARY SCHOOL PROGRAMS (W006704 001); 18 MONTHS \$15,100

PENNSYLVANIA STATE UNIVERSITY

BERNOFF, ROBERT A; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007097); 20 MONTHS \$30,435

DIETHORN, WARD S; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007165); 19 MONTHS \$27,373

SLIPPERY ROCK STATE COLLEGE

HOLLAND, MONTE W; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007161); 19 MONTHS \$36,708

TEMPLE UNIVERSITY

RAUN, CHESTER E; COOPERATIVE COLLEGE SCHOOL SCIENCE (W001143); 19 MONTHS \$27,347

RAUN, CHESTER E; LEADERSHIP PREP F IMPLEMENTATION/SCIS IN URBAN AND SUB AREAS (W007247); 18 MONTHS \$48,500

U S-SOUTH AFRICA LEADER EXCHANGE PROGRAM INC

BREWER, JAMES C; TRAVEL/ISO AFRICAN EDUCATORS TO NSF SUPPLEMENTARY TRAINING PROGRAMS (W004813); 12 MONTHS \$5,500

UNIVERSITY OF PENNSYLVANIA

GIRAULT, EMILY; LEADERSHIP PREPARATION FOR IMPLEMENTATION OF ANTHROPOLOGY CURRICULUM STUDY PROJECT, SOCIOLOGICAL RESOURCES FOR THE SOCIAL STUDIES, AND HIGH SCHOOL GEOGRAPHY PROJECT (W007277); 18 MONTHS \$74,100

UNIVERSITY OF PITTSBURGH

BRODY, H D; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007079); 14 MONTHS \$3,890

WILKES COLLEGE

HOLDEN, S J; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007101); 20 MONTHS \$38,901

WILSON COLLEGE

GILES JR, LESTER A; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007113); 19 MONTHS \$30,249

RHODE ISLAND**RHODE ISLAND COLLEGE**

LUNDBERG, KENNETH V; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007114); 19 MONTHS \$42,849

SOUTH CAROLINA**CLEMSON UNIVERSITY**

WILCOX, L C; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007142); 18 MONTHS \$41,888

UNIVERSITY OF SOUTH CAROLINA

SILVERNAIL, RICHARD G; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007119); 19 MONTHS \$30,865

SOUTH DAKOTA**AUGUSTANA COLLEGE**

LINDELL, VERLYN L; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007117); 18 MONTHS \$29,791

TENNESSEE**AUSTIN PEAY STATE UNIVERSITY**

STEDMAN, CARLTON H; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007109); 19 MONTHS \$27,943

EAST TENNESSEE STATE UNIVERSITY

PAFFORD, WILLIAM N; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007142); 17 MONTHS \$18,620

MEMPHIS STATE UNIVERSITY

PETERSON, GLEN E. AND CLEMINSON, RONALD W; SUMMER CONF FOR ELEMENTARY SCH ADM CONCERNING NEW SCIENCE CURRICULA (W007246); 18 MONTHS \$15,345

UNIVERSITY OF TENNESSEE AT CHATTANOOGA

BENSON, BERNARD W; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007062); 19 MONTHS \$22,219

ATOMIC ENERGY COMMISSION-OAK RIDGE OPERATIONS OFFICE-AEC RANDALL, COURTLAND S; ENVIRONMENTAL EXPERIMENTS PROGRAM (AG70260 001); 12 MONTHS \$11,000

TEXAS

CRESWELL, JOHN L; OTHER PROGRAM AWARDS (01AWDS); 14 MONTHS \$38,350

BISHOP COLLEGE

RODRIGUEZ, ARGELIA V; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007107); 19 MONTHS \$54,688

PRAIRIE VIEW AGRICULTURAL & MECHANICAL COLLEGE

STEWART, A D; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007178); 19 MONTHS \$27,337

SAM HOUSTON STATE UNIVERSITY

VICK, GEORGE R; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007176); 19 MONTHS \$19,069

SOUTHERN METHODIST UNIVERSITY

NARDIZZI, LOUIS; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007078); 20 MONTHS \$32,664

BROWN, FRANK J PALAS&J D; LEADERSHP PREP FOR IMPLEMENTATION OF SEC SCH MATH CURR IMPROVEMENT ST (W007140); 18 MONTHS \$17,200

SUL ROSS STATE UNIVERSITY

FLORES, ROMEO M; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007136); 14 MONTHS \$20,945

UNIV OF TEXAS AT AUSTIN

CLARK, ROBERT BECK; MODEL PROJECT FOR UTILIZATION OF PROFESSIONAL SCIENTISTS AS ADVISORS TO SECONDARY SCHOOLS IN TEXAS (W006716 001); 16 MONTHS \$27,199

MONTAGUE, EARL J; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007151); 19 MONTHS \$48,097

LITTLE, R N; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007180); 18 MONTHS \$28,402

UNIV OF TEXAS AT EL PASO

BOLEN, MAX C; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007181); 19 MONTHS \$34,175

UTAH**BRIGHAM YOUNG UNIVERSITY**

WIGHT, TED; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007144); 18 MONTHS \$36,236

SOUTHERN UTAH STATE COLLEGE

LEBARON, GEORGE; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007077); 20 MONTHS \$38,741

LARSEN, WESLEY P; LEADERSHIP PREPARATION FOR IMPLEMENTATION OF ELEMENTARY SCHOOL SCIENCE (W007274); 19 MONTHS \$39,800

UTAH STATE UNIVERSITY

CANNON, LAWRENCE O; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007283); 18 MONTHS \$68,876

VERMONT**UNIVERSITY OF VERMONT**

AGNE, RUSSELL M; INFO WORKSHOP FOR IMPLEMENTATION/ENG CONCEPTS CURR PROJ IN VERMONT (W007450); 19 MONTHS \$8,500

VIRGINIA**UNIVERSITY OF VIRGINIA**

THOMPSON, ERTLE; SUMMER CONF FOR JUNIOR HIGH&MIDDLE SCH PRINCIPALS ON NEW SCI CURRICULA (W007254); 18 MONTHS \$12,370

VIRGINIA POLYTECHNIC INSTITUTE

SWEETSER, EVAN A; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007129); 19 MONTHS \$29,516

VIRGINIA STATE COLLEGE

JEMISON, EVELYN W; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007152); 14 MONTHS \$28,680

WASHINGTON**EASTERN WASHINGTON STATE COLLEGE**

HAMBLIN, EDWARD L; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007183); 19 MONTHS \$30,832

UNIVERSITY OF PUGET SOUND

ACHESON, DONALD E; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007113); 19 MONTHS \$36,834

WASHINGTON STATE UNIVERSITY

ORLICH, DONALD C; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007286); 14 MONTHS \$24,898

WEST VIRGINIA**MARSHALL UNIVERSITY**

ROGERS, WILEY S; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007177); 19 MONTHS \$20,714

WEST VIRGINIA UNIVERSITY

BALCH, PATRICK E; COOPERATIVE COLLEGE-SCHOOL SCIENCE PROGRAM (W006457 001); 13 MONTHS \$3,664

WISCONSIN**EDGEWOOD COLLEGE**

DWYER, PAULINUS; COOPERATIVE COLLEGE SCHOOL SCIENCE (W007124); 17 MONTHS \$21,055

UNIVERSITY OF WISCONSIN, MADISON

ROMBERG, THOMAS A; ANALYSIS OF MATHEMATICS INSTRUCTION (W006707 001); 12 MONTHS \$87,700

WOERGER, WILLIAM W, AND MCNEARY, JAMES J; LEADERSHIP PREP F IMPLEMENTIA REG CNTR F THE ENG CONCEPTS CURR PROJ (W007280); 18 MONTHS \$55,900

WISCONSIN STATE UNIVERSITY, OSHKOSH
 GIBBS, RONALD K; COOPERATIVE COLLEGE SCHOOL SCIENCE
 (W007105); 19 MONTHS \$22,270

WISCONSIN STATE UNIVERSITY, STEVENS POINT
 WOOD, ROGER L; COOPERATIVE COLLEGE SCHOOL SCIENCE
 (W007149); 16 MONTHS \$21,576

WISCONSIN STATE UNIVERSITY, SUPERIOR
 BESCH, GORDON O C; LEADERSHIP PREP F IMPLEMENT SEC SCH PHYS
 SCI WORKSHOPS TIME SPACE AND MATTER (W007178); 18 MONTHS \$50,100

WISCONSIN STATE UNIVERSITY, WHITEWATER
 MONAHAN, PATRICK; COOPERATIVE COLLEGE SCHOOL SCIENCE
 (W007181); 18 MONTHS \$22,041

MAKURAT, PHILLIP; LEADERSHIP PREP F IMPLEMENTATION IUCSM
 JUNIOR HIGH MATH F UNDERACHIEVER (W007166); 18 MONTHS
 \$31,500

STEKEL, FRANK D; WORKSHOP IN IMPLEMENTATION OF INTER-
 MEDIATE SCIENCE CURRICULUM STUDY LEVELS II AND III (W007175);
 18 MONTHS \$12,100

UNDERGRADUATE LEVEL

ALABAMA

ALABAMA AGRICULTURAL AND MECHANICAL UNIVERSITY
 SHIELDS, CHARLES F; INSTRUCTIONAL SCIENTIFIC EQUIPMENT
 PROGRAM (Y010887); 24 MONTHS \$9,900

AUBURN UNIVERSITY
 NAGLE JR, H TROY; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010873); 24 MONTHS \$20,000

GADSDEN STATE JUNIOR COLLEGE
 YANCEY, ELISE K; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010917); 24 MONTHS \$1,900

JEFFERSON STATE JUNIOR COLLEGE
 MCDONALD, CATHRYN S; INSTRUCTIONAL SCIENTIFIC EQUIPMENT
 PROGRAM (Y010963); 24 MONTHS \$4,000

LAWSON STATE JUNIOR COLLEGE
 FORD, BENNIE R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010336); 24 MONTHS \$19,200

SPRING HILL COLLEGE
 ARNOLD, MAGDA B; COSIP-INDIVIDUAL INSTITUTIONAL PROJECT
 (Y008343); 41 MONTHS \$228,300

TUSKEGEE INSTITUTE
 HENDERSON, J H M; COSIP-INDIVIDUAL INSTITUTIONAL PROJECT
 (Y009387); 36 MONTHS \$329,900

TOLBERT, BERNADINE; INSTRUCTIONAL SCIENTIFIC EQUIPMENT
 PROGRAM (Y010333); 24 MONTHS \$4,600

HOWZE, GLENN; BLACK COLLEGES (FOUR-YEAR) (Y010127); 36
 MONTHS \$253,700

UNIVERSITY OF ALABAMA IN BIRMINGHAM
 PEARSON, C A, AND SINGLETON, LILLIE; COSIP-COOPERATIVE PRO-
 JECT FOR 2-YR COLLEGES (Y009718); 15 MONTHS \$65,700

JONES, STANLEY T; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010073); 24 MONTHS \$4,000

UNIVERSITY OF ALABAMA, TUSCALOOSA
 BERGE, NEAL R; INVITATIONAL CONFERENCE FOR LEADERS OF
 EXPERIMENTAL COLLEGES (Y009389); 15 MONTHS \$8,043

GARNER, ROBERT H, AND DOLLAR, JERRY L; COSIP-COOPERATIVE
 PROJECT FOR 2-YR COLLEGES (Y009713); 27 MONTHS \$33,600

ALASKA

UNIVERSITY OF ALASKA
 FLANAGAN, PATRICK W; INSTRUCTIONAL SCIENTIFIC EQUIPMENT
 PROGRAM (Y010995); 24 MONTHS \$10,000

ARIZONA

ARIZONA STATE UNIVERSITY
 SAUCK, WILLIAM A; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010187); 24 MONTHS \$2,700

BERMAN, NEIL S; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010261); 24 MONTHS \$12,000

MESA COMMUNITY COLLEGE
 LYON, GARY F; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM
 (Y010810); 24 MONTHS \$3,600

UNIVERSITY OF ARIZONA
 LITTLE, IVAN M; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010288); 24 MONTHS \$18,400

ARKANSAS

PHILANDER SMITH COLLEGE
 JOHNSON, WILLIE B; INSTRUCTIONAL SCIENTIFIC EQUIPMENT
 PROGRAM (Y010332); 24 MONTHS \$1,000

SOUTHERN STATE COLLEGE
 RUTLEDGE, CARL T; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010031); 24 MONTHS \$1,900

UNIVERSITY OF ARKANSAS
 ANDERSON, RICHARD J; INSTRUCTIONAL SCIENTIFIC EQUIPMENT
 PROGRAM (Y010433); 24 MONTHS \$20,000

MACDONALD, HAROLD C; INSTRUCTIONAL SCIENTIFIC EQUIPMENT
 PROGRAM (Y010289); 24 MONTHS \$14,800

CALIFORNIA

BUTTE COLLEGE
 SMITH, ROBERT D; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010390); 24 MONTHS \$300

MCCART, PERRY D; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010307); 24 MONTHS \$1,000

CALIFORNIA STATE COLLEGE AT BAKERSFIELD
 DETWILER, DANIEL P, AND FANG, FABIAN; COSIP-INDIVIDUAL IN-
 STITUTIONAL PROJECT (Y009700); 26 MONTHS \$229,000

OST, DAVID H; PROG USING USMES MTRLS TO IMPROVE THE
 PRESERVED/PROSPEC ELEM SCH TCH (Y009705); 11 MONTHS \$68,600

CALIFORNIA STATE COLLEGE AT SONOMA
 SHERMAN, ROBERT J; INSTRUCTIONAL SCIENTIFIC EQUIPMENT
 PROGRAM (Y010118); 24 MONTHS \$2,900

CALIFORNIA STATE POLYTECHNIC UNIV, POMONA
 SHELL, B J; TECHNICIAN EDUCATION DEVELOPMENT PROGRAM IN-
 DIVIDUAL INST (Y010171); 24 MONTHS \$152,245

CALIFORNIA STATE UNIVERSITY, HUMBOLDT
 ALLEN, WILLIAM V; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010087); 24 MONTHS \$4,200

CALIFORNIA STATE UNIVERSITY, LONG BEACH
 GRANNELL, ROSWITHA B; INSTRUCTIONAL SCIENTIFIC EQUIPMENT
 PROGRAM (Y010414); 24 MONTHS \$5,900

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE
 GUSTAFSON, WILLIAM T; INSTRUCTIONAL SCIENTIFIC EQUIPMENT
 PROGRAM (Y010335); 24 MONTHS \$15,500

CALIFORNIA STATE UNIVERSITY, SACRAMENTO
 NEWCOMB, CHARLES; INSTRUCTIONAL SCIENTIFIC EQUIPMENT
 PROGRAM (Y010101); 24 MONTHS \$1,400

SHEA, MICHAEL J; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010467); 24 MONTHS \$7,800

FORKEY, DAVID M; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010368); 24 MONTHS \$9,200

CALIFORNIA STATE UNIVERSITY, SAN DIEGO
 ATKINS, M D; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM
 (Y010188); 24 MONTHS \$4,200

ZEDLER, PAUL H; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010139); 24 MONTHS \$8,000

CALIFORNIA STATE UNIVERSITY, SAN LUIS OBISPO
 RUSSELL, C R; TECHNICIAN EDUCATION DEVELOPMENT PROGRAM
 INDIVIDUAL INST (Y010148); 24 MONTHS \$51,000

CERRITOS COLLEGE
 WILSON, LOUIS; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010312); 24 MONTHS \$6,900

CHAPMAN COLLEGE
 TWEED, EDWARD D; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010211); 24 MONTHS \$4,700

HARVEY MUDD COLLEGE
 KUBOTA, MITSURU; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010116); 24 MONTHS \$12,100

LOS ANGELES PIERCE COLLEGE
 TONTSCH, JOHN; TECHNICIAN EDUCATION DEVELOPMENT PRO-
 GRAM INDIVIDUAL INST (Y010178); 24 MONTHS \$143,705

MODESTO JUNIOR COLLEGE
 GOODROW, MARVIN; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010165); 24 MONTHS \$5,300

MOUNT ST MARY'S COLLEGE
 LAMB, SANDRA I; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PRO-
 GRAM (Y010207); 24 MONTHS \$3,500

OCCIDENTAL COLLEGE
 SWENSON, LELAND C; INSTRUCTIONAL SCIENTIFIC EQUIPMENT
 PROGRAM (Y010113); 24 MONTHS \$4,900

WEST, C DAVID; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010418); 24 MONTHS \$17,800

OPTICS TECHNOLOGY INC

KAPANY, NARINDER S; CONTRACT FOR DEVELOPMENT OF A ONE-YEAR COURSE IN OPTICS FOR USE BY INTERMEDIATE-LEVEL COLLEGE AND UNIVERSITY STUDENTS (C418000); 24 MONTHS \$149,800

POMONA COLLEGE

BANKS, WILLIAM P; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010598); 24 MONTHS \$5,500

SAN DIEGO CITY COLLEGE

BAUER, JOHN A; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010510); 24 MONTHS \$3,700

SANTA ANA COLLEGE

MILLER, EARL E; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010519); 24 MONTHS \$2,500

STANFORD UNIVERSITY

WILCOX, JOHN M; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010173); 24 MONTHS \$9,900

UNIVERSITY OF CALIFORNIA, BERKELEY

PORTIS, ALAN M; CENTER OF EXCELLENCE IN SCIENCE EDUCATION (W000418*); 14 MONTHS \$52,140

PORTIS, ALAN M; CENTER OF EXCELLENCE IN SCIENCE EDUCATION (W000419 001*); 14 MONTHS \$28,070

PHILLIPS, JOHN G; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010466); 24 MONTHS \$500

UNIVERSITY OF CALIFORNIA, DAVIS

BEADLE, CHARLES W; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010121); 24 MONTHS \$3,900

UNIVERSITY OF CALIFORNIA, IRVINE

PARKER, WILLIAM; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010036); 24 MONTHS \$11,400

UNIVERSITY OF CALIFORNIA, LOS ANGELES

HAWTHORNE, M FREDERICK; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010111); 24 MONTHS \$15,800

UNIVERSITY OF REDLANDS

SMITH, LOWELL KENT; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010387); 24 MONTHS \$5,100

UNIVERSITY OF SANTA CLARA

PFEIFFER, ROBERT J; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010845); 24 MONTHS \$4,100

UNIVERSITY OF SOUTHERN CALIFORNIA

LIEN, ERIC J; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010086); 24 MONTHS \$8,500

WEST HILLS COLLEGE

HICKS, JAMES R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010422); 24 MONTHS \$4,800

WHITTIER COLLEGE

GARDNER, LUCY; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010240); 24 MONTHS \$9,100

COLORADO

COLORADO COLLEGE

HUEBERT, BARRY J; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010103); 24 MONTHS \$5,800

COLORADO STATE UNIVERSITY

JORDAN, JOHN PATRICK; BIOLOGY CORE CO-TIE PROGRAM (Y009337); 21 MONTHS \$260,000

JOHNSON, GARNIE, AND JORDAN, JOHN P; PROPOSAL FOR CONTINUATION OF NSF GRANT NSF GY 8537 1 APRIL 1978 (Y009337 001); 12 MONTHS \$240,000

MARTIN, STEPHEN G; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010126); 24 MONTHS \$12,100

AZARI, PARVIZ; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010456); 24 MONTHS \$17,100

SOCIAL SCIENCE EDUCATION CONSORTIUM INC

MORRISSETT, IRVING; IMPROVEMENT, ANALYSIS, AND USE OF SOCIAL SCIENCE CURRICULUM MATERIALS, K-12 (W00227 004*); 30 MONTHS \$51,896

UNIVERSITY OF COLORADO

HAAS, JOHN D; PRE-SERVICE ELEMENTARY SCHOOL TEACHER EDUCATION (Y009318 001); 12 MONTHS \$201,900

JORDAN, HARRY F; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010136); 24 MONTHS \$18,600

DICKINSON, ARTHUR L; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010114); 24 MONTHS \$11,600

ALBERT, HARRISON B; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010185); 24 MONTHS \$7,600

UNIVERSITY OF DENVER

ANDERSON, ROGER A; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010353); 24 MONTHS \$19,800

UNIVERSITY OF COLORADO-DENVER CENTER

DAMRAUER, R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010397); 24 MONTHS \$10,200

CONNECTICUT

FAIRFIELD UNIVERSITY

O'CONNELL JR, E J; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010803); 24 MONTHS \$4,400

QUINNIPAC COLLEGE

GARSKOF, MICHELE H; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010091); 24 MONTHS \$2,400

UNIVERSITY OF CONNECTICUT

MUNSON, JAMES W; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010169); 24 MONTHS \$7,700

WESLEYAN UNIVERSITY

FRY, ALBERT J; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010300); 24 MONTHS \$8,700

YALE UNIVERSITY

FOWLEY, TERRY L; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010058); 24 MONTHS \$3,800

SCHULTZ, HOWARD L; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010161); 24 MONTHS \$5,900

DELAWARE

DELAWARE STATE COLLEGE

HELMY, EHSAN M; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010365); 24 MONTHS \$4,400

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (03AWDS); \$5,818

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE

MAYOR, JOHN R; SUPPORT FOR EIGHT PARTICIPANTS ATTENDING A TECHNICIAN EDUCATION PANEL EVALUATION MEETING (Y009338); 3 MONTHS \$3,475

AMERICAN ASSOCIATION OF PHYSICS TEACHERS

JOHNSON, WILBUR V; DIVISION OF UNDERGRADUATE EDUCATION IN SCIENCE NATL SCI FOUNDATION (Y009350); 36 MONTHS \$47,865

AMERICAN CHEMICAL SOCIETY

PECSOK, ROBERT L; CHEMICAL TECHNICIAN CURRICULUM PROJECT (Y000789 001); 6 MONTHS \$99,500

AMERICAN GEOLOGICAL INSTITUTE

ROMEY, WILLIAM D; EARTH SCIENCE TEACHER PREPARATION PROJECT (Y07688 001); 24 MONTHS \$80,500

THOMPSON, JOHN; EARTH SCIENCE TEACHER PREPARATION PROJECT (Y007688 003); 12 MONTHS \$79,800

AMERICAN UNIVERSITY

ANDERSON, RICHARD R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010355); 24 MONTHS \$2,400

ASSOCIATION OF AMERICAN GEOGRAPHERS

LOUNSBURY, JOHN F; COMMISSION ON COLLEGE GEOGRAPHY (E068218 009); 18 MONTHS \$178,122

EXOTECH SYSTEMS INC

EHRMAN, LIBERT; AMENDMENT TO NSF C-553 T O 14 PROC FY-1978 EDUC DIRECTORATE PROPOSAL (C453014 001); 2 MONTHS \$31,119

DAVIS, ALLAN S; TASK ORDER FOR SPECIAL PROCESSING OF COLLEGE SCIENCE IMPROVEMENT PROGRAM PROPOSAL AND AWARD DATA (C455018); 6 MONTHS \$6,600

HOWARD UNIVERSITY

TAYLOR, MODDIE D; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010368); 24 MONTHS \$15,400

NATIONAL ACADEMY OF ENGINEERING

HALL, NEWMAN A; TO STIMULATE THE DEVELOPMENT OF ENG COURSES AND CURR TO INCLUDE THE COMP SCI (C810181 003); 3 MONTHS \$6,700

NTL INSTITUTE FOR APPLIED BEHAVIORAL SCIENCE

CALLAHAN, D G LAKE & D M; TEMPORARY SYSTEMS MANAGEMENT TRAINING AND EVALUATION (W006816*); 30 MONTHS \$12,000

SIKES, WALTER W; COLLEGE SCIENCE IMPROVEMENT PROGRAMS (Y009317); 4 MONTHS \$5,400

SOCIETY OF AMERICAN FORESTERS

BOLLE, ARNOLD W, AND WEBSTER, HENRY H; CURRICULUM DEVELOPMENT PROJECT WORKSHOP PHASE (Y006353); 24 MONTHS \$16,575

FLORIDA

- BROWARD COMMUNITY COLLEGE**
BOCKSTEGE JR, BEN P; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010301); 24 MONTHS \$1,700*
- DAYTONA BEACH COMMUNITY COLLEGE**
BOOKER, THEODORE; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010310); 24 MONTHS \$700*
- FLORIDA AGRICULTURAL AND MECHANICAL UNIVERSITY**
AXELSON, JULEIN M; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010311); 24 MONTHS \$900*
- FLORIDA PRESBYTERIAN COLLEGE**
MACDOUGALL, JAMES; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010197); 24 MONTHS \$9,900*
- FLORIDA TECHNOLOGICAL UNIVERSITY**
PATZ, BENJAMIN W; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010113); 24 MONTHS \$20,900*
MILLER, HARVEY A; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010114); 24 MONTHS \$19,600*
- ROLLINS COLLEGE**
ROSS, JOHN S; *COSIP-INDIVIDUAL INSTITUTIONAL PROJECT (Y009713); 36 MONTHS \$196,600*
- STETSON UNIVERSITY**
BEILER, THEODORE W; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010211); 24 MONTHS \$2,500*
- UNIVERSITY OF FLORIDA**
DAMRON, B L; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010213); 24 MONTHS \$1,900*
- UNIVERSITY OF SOUTH FLORIDA**
NELSON, DOUGLAS L; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010137); 24 MONTHS \$19,300*
FILIPOWSKY, R F; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010141); 24 MONTHS \$8,700*

GEORGIA

- BERRY COLLEGE**
CARPER, N GORDON; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010321); 24 MONTHS \$2,500*
- EMORY UNIVERSITY**
FORD, DAVID A, AND CUNNINGHAM, WILLIAM GLENN; *COSIP-COOPERATIVE PROJECT FOR 2-YR COLLEGES (Y009714); 33 MONTHS \$75,000*
- GEORGIA COLLEGE AT MILLEDGEVILLE**
COTTER, DAVID J; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010331); 24 MONTHS \$14,700*
- GEORGIA INSTITUTE OF TECHNOLOGY**
CONNELLY, J A; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010411); 24 MONTHS \$13,800*
- MOREHOUSE COLLEGE**
NORRIS, THOMAS E; *BLACK COLLEGES (FOUR-YEAR) (Y010441); 36 MONTHS \$351,500*
- PAINE COLLEGE**
HAYES, JOHN THOMPSON; *BLACK COLLEGES (FOUR-YEAR) (Y010161); 36 MONTHS \$280,900*
- SOUTHERN INTERSTATE NUCLEAR BOARD**
RONEY, MAURICE W; *NUCLEAR TECHNICIAN CURRICULUM PLANNING GUIDE (Y009719); 12 MONTHS \$20,450*
- SPELMAN COLLEGE**
SMITH, BARNETT F; *COLLEGE SCIENCE IMPROVEMENT PROGRAM (INDIVIDUAL INSTITUTIONAL PROJECTS-COSIP D1) (Y010107); 36 MONTHS \$279,400*
- UNIVERSITY OF GEORGIA**
SCHELLY, ZOLTAN; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010067); 24 MONTHS \$10,900*
SHAW, J SCOTT; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010217); 24 MONTHS \$5,000*

HAWAII

- UNIVERSITY OF HAWAII**
MOOKINI, E H, AND NAKAMURA, I; *COSIP-COOPERATIVE PROJECT FOR 2-YR COLLEGES (Y009725); 6 MONTHS \$40,100*
WINGERT, EVERETT; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010353); 24 MONTHS \$8,100*

IDAHO

- BOISE STATE COLLEGE**
CAMPBELL, R RUSSELL; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010034); 24 MONTHS \$11,600*

COLLEGE OF SOUTHERN IDAHO

- FISHER, M A; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010303); 24 MONTHS \$1,000*
- IDAHO STATE UNIVERSITY**
HECKLER, GEORGE E; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010183); 24 MONTHS \$6,500*
- NORTHWEST NAZARENE COLLEGE**
MARKS, DARRELL L; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010219); 24 MONTHS \$4,900*

ILLINOIS

- DANVILLE JUNIOR COLLEGE**
HUFFMAN, CURTIS; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010308); 24 MONTHS \$8,000*
- ILLINOIS INSTITUTE OF TECHNOLOGY**
TORDA, T P; *AN EXPERIMENT IN ENGINEERING EDUCATION (Y009500 001); 24 MONTHS \$724,900*
FILLER, ROBERT; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010047); 24 MONTHS \$7,800*
- ILLINOIS STATE UNIVERSITY**
RICHARDSON, ARLAN; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010040); 24 MONTHS \$4,900*
- LOYOLA UNIVERSITY**
HARRIS, RONALD W; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010073); 24 MONTHS \$2,200*
JAMESON, A KEITH; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010341); 24 MONTHS \$6,500*
- MONMOUTH COLLEGE**
SENN, DAVID J; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010181); 24 MONTHS \$1,800*
- NORTHERN ILLINOIS UNIVERSITY**
SPANGLER, CHARLES W; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010074); 24 MONTHS \$14,900*
ROSSING, THOMAS; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010108); 24 MONTHS \$3,400*
COLE, ALAN; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010271); 24 MONTHS \$3,900*
- NORTHWESTERN UNIVERSITY**
DRANOFF, JOSHUA S; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010018); 24 MONTHS \$10,800*
MACKENZIE, FRED T; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010071); 24 MONTHS \$8,500*
STRUEVER, STUART; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010333); 24 MONTHS \$2,400*
- SOUTHERN ILLINOIS UNIVERSITY - CARBONDALE**
HOOD, WILLIAM C; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010149); 24 MONTHS \$4,200*
- UNIVERSITY OF CHICAGO**
SWIFT, HEWSON; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010302); 24 MONTHS \$19,000*
- UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE**
MURRAY, DARREL L, AND BERRY, JOHN M JR; *COSIP-COOPERATIVE PROJECT FOR 2-YR COLLEGES (Y009721); 9 MONTHS \$21,700*
LIU, CHUI FAN; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010313); 24 MONTHS \$18,500*
- UNIVERSITY OF ILLINOIS AT URBANA**
ARMSTRONG, JAMES W, AND THOMPSON, PAUL; *COSIP-COOPERATIVE PROJECT FOR 2-YR COLLEGES (Y009720); 42 MONTHS \$43,100*
BELFORD, R L; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010069); 24 MONTHS \$6,200*
- WILLIAM RAINEY HARPER COLLEGE**
BERNSTEIN, RICHARD M; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010257); 24 MONTHS \$13,100*

INDIANA

- ANDERSON COLLEGE**
CRUIKSHANK JR, DONALD B; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010081); 24 MONTHS \$10,800*
- BALL STATE UNIVERSITY**
VAN ATTA, ROBERT E; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010072); 24 MONTHS \$10,300*
BENNETT, ALICE S; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010079); 24 MONTHS \$6,100*
ERRINGTON, PAUL R; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010323); 24 MONTHS \$1,800*

DEPAUW UNIVERSITY

DAVIS, THOMAS A; COLLEGE SCIENCE IMPROVEMENT PROGRAMS (INDIVIDUAL INSTITUTIONAL PROJECTS) (Y008815 001); 36 MONTHS \$181,800

EARLHAM COLLEGE

STRATTON, WILMER J; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010176); 24 MONTHS \$4,800

HANOVER COLLEGE

ELLEFSEN, PAUL R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010155); 24 MONTHS \$3,300

INDIANA UNIVERSITY, BLOOMINGTON

LEBLANC, JOHN F; INDIANA UNIVERSITY MATHEMATICS METHODS COMBINATION (Y008885 001); 12 MONTHS \$279,770

KLEIN JR, CORNELIS; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010045); 24 MONTHS \$12,800

MANCHESTER COLLEGE

EBERLY, WILLIAM R; COSIP-INDIVIDUAL INSTITUTIONAL PROJECT (Y008487); 40 MONTHS \$120,700

MARIAN COLLEGE

BOFF, MICHAEL; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010406); 24 MONTHS \$300

FURDUE UNIVERSITY

NORDLAND, FLOYD H; AN INTEGRATED SCIENCE PROG FOR PRE-SERVY ELEMENTARY SCHOOL TEACHERS (Y008898); 24 MONTHS \$249,350

CHRISTIAN, JOHN E; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010018); 24 MONTHS \$16,400

LEON, BENJAMIN J; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010443); 24 MONTHS \$17,600

DANILOFF, RAYMOND G; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010449); 24 MONTHS \$9,300

POSTLETHWAIT, SAMUEL N; THE EVALUATION OF MINICOURSES IN UNDERGRADUATE BIOLOGY AT TWELVE SELECTED COLLEGES AND UNIVERSITIES (Y010144); 36 MONTHS \$63,200

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

ROGERS, CHARLES C; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010055); 24 MONTHS \$13,000

TAYLOR UNIVERSITY

NUSSBAUM, ELMER; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010173); 24 MONTHS \$2,000

UNIVERSITY OF NOTRE DAME

FIORINDO, ROBERT P; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010084); 24 MONTHS \$17,800

YANG, K T; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010247); 24 MONTHS \$10,800

VALPARAISO UNIVERSITY

SHEWAN, WILLIAM; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010157); 24 MONTHS \$11,000

WALDSCHMIDT, RUDOLPH; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010285); 24 MONTHS \$5,400

PURDUE UNIVERSITY-INDIANAPOLIS REGIONAL CAMPUS

FIFE, WILMER K; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010143); 24 MONTHS \$20,000

IOWA**AMERICAN POLITICAL SCIENCE ASSOCIATION**

VAN DYKE, VERNON; PROGRAM FOR UNDERGRADUATE EDUCATION IMPROVEMENT IN POLITICAL SCIENCE (Y008431); 30 MONTHS \$48,870

COE COLLEGE

WATKINS, STANLEY R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010153); 24 MONTHS \$2,300

CORNELL COLLEGE

DESKIN, WILLIAM A; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010270); 24 MONTHS \$2,900

DRAKE UNIVERSITY

ROGERS, RODNEY A; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010054); 24 MONTHS \$9,600

GRINNELL COLLEGE

BAYS, JAMES PHILIP; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010066); 24 MONTHS \$5,000

IOWA STATE UNIVERSITY OF SCIENCE & TECHNOLOGY

REDMOND, JAMES R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010046); 24 MONTHS \$20,000

GROENEVELD, RICHARD A; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010117); 24 MONTHS \$6,600

LUTHER COLLEGE

MOORCROFT, WILLIAM H; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010083); 24 MONTHS \$12,000

SIMPSON COLLEGE

UPDEGRAFF, WILLIAM E; COSIP-INDIVIDUAL INSTITUTIONAL PROJECT (Y008481); 17 MONTHS \$37,400

KANSAS**BETHANY COLLEGE**

ENGLUND, CHARLES R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010444); 24 MONTHS \$2,600

FORT HAYS KANSAS STATE COLLEGE

DRESSLER, ROBERT L; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010445); 24 MONTHS \$6,800

KANSAS STATE UNIVERSITY

SPANGLER, JOHN D. AND KITCHEN, WILLIAM C; COSIP-COOPERATIVE PROJECT FOR 4-YR COLLEGES (Y009715); 18 MONTHS \$50,300

UNIVERSITY OF KANSAS

KLEIN, RONALD L; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010209); 24 MONTHS \$5,400

HIERL, PETER; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010286); 24 MONTHS \$12,900

GAINES, MICHAEL S; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010487); 24 MONTHS \$7,300

WASHBURN UNIVERSITY OF TOPEKA

COHEN, SHELDON H; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010171); 24 MONTHS \$10,100

WICHITA STATE UNIVERSITY

BENNINGFIELD, LLOYD M; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010264); 24 MONTHS \$8,900

KENTUCKY**BEREA COLLEGE**

BEEBE, THOMAS R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010366); 24 MONTHS \$13,800

CENTRE COLLEGE OF KENTUCKY

ELLIS, ROY; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010152); 24 MONTHS \$3,700

EASTERN KENTUCKY UNIVERSITY

GEORGE, TED M; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010158); 24 MONTHS \$3,800

MURRAY STATE UNIVERSITY

WHALEY, PETER W; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010310); 24 MONTHS \$6,500

THOMAS MORE COLLEGE

MINER, GEORGE K; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010358); 24 MONTHS \$10,500

LOUISIANA**GRAMBLING COLLEGE**

KENNEDY, A P; BLACK COLLEGES (FOUR-YEAR) (Y010408); 36 MONTHS \$324,800

LOUISIANA STATE UNIVERSITY, BATON ROUGE

DANIEL JR, L R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010184); 24 MONTHS \$4,200

GREENBERG, DAVID B; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010183); 24 MONTHS \$6,600

NORTHEAST LOUISIANA UNIVERSITY

SHUGART, CECIL C; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010367); 24 MONTHS \$10,000

TULANE UNIVERSITY

WEBB, GEORGE R. AND KELLER, JANE C; A PROGRAM TO CONSIDER SCIENCE, TECHNOLOGY AND SOCIAL CHANGE (Y008328); 14 MONTHS \$7,660

UNIVERSITY OF SOUTHWESTERN LOUISIANA

MERIWETHER, JOHN R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010474); 24 MONTHS \$5,600

XAVIER UNIVERSITY OF LOUISIANA

DRAWE, SR M VERONICA; BLACK COLLEGES (FOUR-YEAR) (Y009720); 36 MONTHS \$396,000

SOUTHERN UNIVERSITY-SOUTHERN UNIVERSITY IN NEW ORLEANS
DAVE, V R; BLACK COLLEGES (FOUR-YEAR) (Y010453); 36 MONTHS \$225,800

MAINE

- BOWDOIN COLLEGE**
HUNTINGTON, CHARLES E; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010609); 24 MONTHS \$3,800
- UNIVERSITY OF MAINE, ORONO**
WEAVER, DAVID L; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010387); 24 MONTHS \$1,900
- WESTBROOK COLLEGE**
VOLLMER, DOUGLAS; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010380); 24 MONTHS \$3,700

MARYLAND

- NONE; OTHER PROGRAM AWARDS (OPAWDS); \$18,213
- ALLEGANY COMMUNITY COLLEGE**
WORKMAN, GLENN O; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010301); 24 MONTHS \$4,300
- CHARLES COUNTY COMMUNITY COLLEGE**
JENSEN, BELVA L; *DEVELOPMENT OF ESTUARINE RESOURCE TECHNICIANS* (Y004314 001); 18 MONTHS \$76,500
JENSEN, BELVA L; *DEVELOPMENT OF ESTUARINE RESOURCE TECHNOLOGY* (Y004318 002); 36 MONTHS \$37,352
- UNIVERSITY OF MARYLAND, BALTIMORE**
VINCENT, JAMES; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010105); 24 MONTHS \$4,400
- UNIVERSITY OF MARYLAND, COLLEGE PARK**
RAMM, GORDON M, AND HURLBURT, EVELYN M; *COSIP-COOPERATIVE PROJECT FOR 4-YR COLLEGES* (Y009711); 12 MONTHS \$24,500

MASSACHUSETTS

- AMHERST COLLEGE**
SARGENT, C DANN; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010099); 24 MONTHS \$14,400
- BOSTON COLLEGE**
EATHER, R H; *EDUCATION FILM ON AURORA BOREALIS* (Y009317); 12 MONTHS \$11,800
EATHER, R H; *AMENDMENT NO. 1 TO- EDUCATIONAL FILM ON AURORA BOREALIS, CY-8341* (Y009311 001); 12 MONTHS \$2,970
- CLARK UNIVERSITY**
ANDERSON, ROY S; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010184); 24 MONTHS \$5,800
- COLLEGE OF OUR LADY OF THE ELMS**
WRIGHT, SR MARY L; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010131); 24 MONTHS \$5,000
- EDUCATION DEVELOPMENT CENTER**
BRAINERD, JOHN O; *MOTION PICTURES TO IMPROVE INSTRUCTION IN ELECTRICAL ENGINEERING* (E009358 003); 8 MONTHS \$74,480
LOWEN, E L; *UNIFIED SCIENCE & MATHEMATICS FOR ELEMENTARY SCHOOLS* (W003807 003*); \$17,970
CHURCHILL JR, J M B; *ACTIVITIES RELATED TO SCIENCE EDUCATION* (W004804*); 24 MONTHS \$49,500
LOMAN, EARL L; *USMES DISTRICT IMPLEMENTATION MODELS* (W007848); 12 MONTHS \$56,245
- FIVE COLLEGE ASTRONOMY DEPARTMENT**
IRVINE, WILLIAM M; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010171); 24 MONTHS \$20,000
- HAMPSHIRE COLLEGE**
FOSTER, JOHN M; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010190); 24 MONTHS \$4,600
- MASSACHUSETTS INSTITUTE OF TECHNOLOGY**
TAYLOR, EDWIN F; *CREATION, EVALUATION, AND DISSEMINATION OF TEACHING MATERIALS AND LEARNING FORMATS IN COLLEGE PHYSICS* (G0117198 002); 24 MONTHS \$129,965
- MOUNT HOLYOKE COLLEGE**
DETOMA, FRANCIS J; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010110); 24 MONTHS \$4,600
- NEWTON COLLEGE**
HABER-SCHAIM, URI; *PREPARATION OF PHYSICS AND CHEMISTRY TEACHERS* (Y009312 001); \$132,200
HABER-SCHAIM, URI; *PREPARATION OF PHYSICS AND CHEMISTRY TEACHERS* (Y009312 002); 5 MONTHS \$20,500
- NORTHEASTERN UNIVERSITY**
FAISSLER, WILLIAM; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010113); 24 MONTHS \$3,300

- TECHNICAL EDUCATION RESEARCH CENTER, INC**
FRANK, NATHANIEL H; *THE DEVELOP/MODULARIZED PHYS INSTR MATERIALS FOR TECHNICAL EDUCATION* (Y009317 001); 15 MONTHS \$120,800
- UNIVERSITY OF MASSACHUSETTS, AMHERST**
NORKIN, LEONARD C; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010317); 24 MONTHS \$11,800
NASH, WILLIAM A; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010381); 24 MONTHS \$4,800
- UNIVERSITY OF MASSACHUSETTS, BOSTON**
BENNETT, RUTH R; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010135); 24 MONTHS \$4,800
- WELLESLEY COLLEGE**
BIRNEY, D SCOTT; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010068); 24 MONTHS \$2,500
- WESTERN NEW ENGLAND COLLEGE**
DAVISON, W O; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010116); 24 MONTHS \$5,300
- WORCESTER POLYTECHNIC INSTITUTE**
GROGAN, WILLIAM R; *COSIP-INDIVIDUAL INSTITUTIONAL PROJECT* (Y009353); 41 MONTHS \$733,400
KENNEDY, OWEN W; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010450); 24 MONTHS \$12,000

MICHIGAN

- ALMA COLLEGE**
TOLLER, LOUIS; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010311); 24 MONTHS \$2,500
- CENTRAL MICHIGAN UNIVERSITY**
SHONK, CARL E, AND ELVE, ALBERTUS H; *COSIP-COOPERATIVE PROJECT FOR 4-YR COLLEGES* (Y009741); 15 MONTHS \$57,700
- DELTA COLLEGE**
MOST JR, CLARK; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010318); 24 MONTHS \$3,400
- GENESEE COMMUNITY COLLEGE**
DEGRAAF, DONALD E; *FLINT INTRODUCTORY PHYSICS SEQUENCE* (Y004784 003); 12 MONTHS \$39,696
- GRAND VALLEY STATE COLLEGE**
WARD, RONALD W; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010077); 24 MONTHS \$4,700
- HOPE COLLEGE**
THARIN, J COTTER; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010110); 24 MONTHS \$5,400
- MICHIGAN STATE UNIVERSITY**
SIGNELL, PETER; *PHYSICS INSTRUCTIONAL FILM DEVELOPMENT* (Y009883); 12 MONTHS \$5,700
- MICHIGAN TECHNOLOGICAL UNIVERSITY**
WHITTEN, B K; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010018); 24 MONTHS \$13,300
BRUMM, D B; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010098); 24 MONTHS \$13,900
- OAKLAND COMMUNITY COLLEGE**
ROSENTHAL, STANLEY L; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010041); 24 MONTHS \$3,200
- OAKLAND UNIVERSITY**
WEDEKIND, GILBERT L; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010096); 24 MONTHS \$17,500
- SOCIETY OF MANUFACTURING ENGINEERS**
GROVE, JON P; *WORKSHOP ON MANUFACTURING ENGINEERING TECHNOLOGY* (Y009350); 15 MONTHS \$4,900
- SOUTHWESTERN MICHIGAN COLLEGE**
HART, ROGER A; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010189); 24 MONTHS \$1,300
- UNIVERSITY OF MICHIGAN**
WILLMARTH, WILLIAM W; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010181); 24 MONTHS \$20,000
LEITH, EMMET N; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010181); 24 MONTHS \$20,000
- WESTERN MICHIGAN UNIVERSITY**
HERMAN, JOHN E; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010185); 24 MONTHS \$2,900
- UNIVERSITY OF MICHIGAN-FLINT COLLEGE**
MACKELA, ARTI A; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM* (Y010117); 24 MONTHS \$10,100

MINNESOTA

AUGSBURG COLLEGE
ALTON, EARL R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010088); 24 MONTHS \$4,400

COLLEGE OF ST TERESA

MORNER, OSCAR F; PRE-SERVICE SECONDARY SCHOOL TEACHER EDUCATION (Y008890 001); 24 MONTHS \$118,650
SCHUTH, SR M KATARINA; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010131); 24 MONTHS \$300

CONCORDIA COLLEGE AT MOORHEAD

JOHNSON, IVAN M; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010344); 24 MONTHS \$3,800

MACALESTER COLLEGE

MINK, WALTER D; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010131); 24 MONTHS \$2,500

MANKATO STATE COLLEGE

INMAN, FRED W, AND SALA, REXFORD Q; COSIP-COOPERATIVE PROJECT FOR 2-YR COLLEGES (Y009716); 21 MONTHS \$77,500
MORGAN, MAX H; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010888); 24 MONTHS \$2,400

MOORHEAD STATE COLLEGE

SIPSON, ROGER F; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010825); 24 MONTHS \$3,300

SOUTHWEST MINNESOTA STATE COLLEGE

RIEDEL, ROBERT G; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010035); 24 MONTHS \$20,000

ST MARYS JUNIOR COLLEGE

PETERSON, CAROL; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010101); 24 MONTHS \$7,500

WINONA STATE COLLEGE

FOSS, FREDERICK W; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010190); 24 MONTHS \$2,000

UNIVERSITY OF MINNESOTA-UNIVERSITY OF MINNESOTA, DULUTH
HANSON, HOWARD G; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010233); 24 MONTHS \$18,000

MISSISSIPPI

DELTA STATE COLLEGE

BRADLEY, MILTON; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010390); 24 MONTHS \$6,100

EAST MISSISSIPPI JUNIOR COLLEGE

WILLIAMSON, TROY L; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010115); 24 MONTHS \$5,200

MISSISSIPPI STATE UNIVERSITY

CORNELL, DAVID; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010219); 24 MONTHS \$6,900

RUST COLLEGE

RIHAN, TALAAT I; BLACK COLLEGES (FOUR-YEAR) (Y009708); 36 MONTHS \$327,300

BRENNAN, BARTLEY A; BLACK COLLEGES (FOUR-YEAR) (Y010100); 36 MONTHS \$311,400

TOUGALOO COLLEGE

GARNER, JOHN B; COSIP-INDIVIDUAL INSTITUTIONAL PROJECTS (Y009321); 36 MONTHS \$163,900

GARNER, JOHN B; COSIP INDIVIDUAL INSTITUTIONAL PROJECT (Y009321 001); \$81,370

LOEWEN, JAMES W; BLACK COLLEGES (FOUR-YEAR) (Y009696); 36 MONTHS \$316,500

UNIVERSITY OF MISSISSIPPI

BASS, HENRY E; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010158); 24 MONTHS \$5,300

WILLIAM CAREY COLLEGE

WEST, ROSE G; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010177); 24 MONTHS \$5,600

MISSOURI

LINCOLN UNIVERSITY

COOK, NATHAN R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010351); 24 MONTHS \$6,600

PARK COLLEGE

JIRGAL JR, GEORGE H; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010083); 24 MONTHS \$2,200

SOUTHWEST BAPTIST COLLEGE

LITTLE, B F; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010368); 24 MONTHS \$2,600

SOUTHWEST MISSOURI STATE COLLEGE

BANKS, LAWRENCE E; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010117); 24 MONTHS \$20,000

UNIVERSITY OF MISSOURI, COLUMBIA

DAVID, LARRY G, AND SCHALLERT, WILLIAM F; COSIP-COOPERATIVE PROJECT FOR 2-YR COLLEGES (Y008714); 36 MONTHS \$110,800
WILLIAMS, FREDERICK; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010204); 24 MONTHS \$4,200

UNIVERSITY OF MISSOURI, KANSAS CITY

NIU, H P; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010328); 24 MONTHS \$2,900

ST LOUIS JUNIOR COLLEGE DISTRICT-FLOISSANT VALLEY COMMUNITY COLLEGE

ALDRIDGE, BILL G; DESIGN PRODUCTION CLASSRM TRL AND EVALUATION; MODULES/INSTR FOR TECH PHYS (Y000113 001); 18 MONTHS \$94,900

MONTANA

CARROLL COLLEGE

BOWMAN, NOEL E; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010156); 24 MONTHS \$11,000

COLLEGE OF GREAT FALLS

SCHNELLER, MICHAEL C; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010328); 24 MONTHS \$1,400

MONTANA STATE UNIVERSITY

SCHMITTROTH, LOUIS A; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010108); 24 MONTHS \$20,000

NEBRASKA

HASTINGS COLLEGE

LAMBERSON, ROLAND H; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010312); 24 MONTHS \$6,600

NEBRASKA WESLEYAN UNIVERSITY

FRENCH JR, WALTER R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010370); 24 MONTHS \$4,200

UNIVERSITY OF NEBRASKA AT LINCOLN

DAM, RICHARD; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010328); 24 MONTHS \$8,400

NEVADA

UNIVERSITY OF NEVADA, LAS VEGAS

RANEY, JOSEPH F; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010128); 24 MONTHS \$4,800

UNIVERSITY OF NEVADA, RENO

DOUGLAS, BRUCE M; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010018); 24 MONTHS \$3,600

BARNES, GEORGE; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010194); 24 MONTHS \$13,600

NEW HAMPSHIRE

AMERICAN UNIVERSITIES FIELD STAFF

MILLER, NORMAN N; DOCUMENTARY FILM PROJECT-THE PEASANT WORLD (Y009285 001); \$217,900

DARTMOUTH COLLEGE

STETLER, DAVID A; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010066); 24 MONTHS \$12,200

NEW ENGLAND COLLEGE

BODHOLT, FREDERICK B; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010160); 24 MONTHS \$4,500

ST ANSELM'S COLLEGE

UPHAM, ROY; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010146); 24 MONTHS \$1,800

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

DAVIS JR, JAMES R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010256); 24 MONTHS \$6,300

NEW JERSEY

DREW UNIVERSITY

MILLER, JAMES M; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010330); 24 MONTHS \$11,000

FAIRLEIGH DICKINSON UNIVERSITY

SANTELLI, JOHN C; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010343); 24 MONTHS \$4,800

JUSTER, ALLAN; TECHNICIAN EDUCATION DEVELOPMENT PROGRAM INDIVIDUAL INST (Y010176); 24 MONTHS \$146,015

MIDDLESEX COUNTY COLLEGE

HANDLER, THOMAS; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010318); 24 MONTHS \$13,400

MONTCLAIR STATE COLLEGE

CLIFFORD, PAUL C. AND CHANDLER, HORACE; *COSIP-COOPERATIVE PROJECT FOR 4-YR COLLEGES (Y009719)*; 24 MONTHS \$34,800

NEWARK COLLEGE OF ENGINEERING

CLEMENTS, WAYNE; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010104)*; 24 MONTHS \$5,900

HANESIAN, DERAN; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010983)*; 24 MONTHS \$12,900

PRINCETON UNIVERSITY

COYNE, LELIA; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010045)*; 24 MONTHS \$9,000

RUTGERS UNIVERSITY

LIVINGSTON JR, JAMES; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010170)*; 24 MONTHS \$20,000

STEVENS INSTITUTE OF TECHNOLOGY

BASKIN, LEONARD B; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010388)*; 24 MONTHS \$13,900

UPSALA COLLEGE

ORAHAM, RICHARD; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010939)*; 24 MONTHS \$2,700

FAIRLEIGH DICKINSON UNIVERSITY-TEANECK CAMPUS

EBERHARD, ANATOL; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010041)*; 24 MONTHS \$4,900

NEW MEXICO**EASTERN NEW MEXICO UNIVERSITY**

PITT, WILLIAM D; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010111)*; 24 MONTHS \$2,000

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

SCHAFER, ROLLIE; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010455)*; 24 MONTHS \$9,900

NEW MEXICO STATE UNIVERSITY

WILSON, DONALD B; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010337)*; 24 MONTHS \$13,700

UNIVERSITY OF NEW MEXICO

BRADSHAW, MARTIN D; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010855)*; 24 MONTHS \$9,900

NEW YORK

FORMAN, JAMES D; *OTHER PROGRAM AWARDS (01AWDS)*; 15 MONTHS \$42,080

AMERICAN INSTITUTE OF PHYSICS

ST.JASSENBURG, ARNOLD A; *NATIONAL TECH PHYSICS COMMITTEE AND PROJECT OFFICE (Y009319 001)*; 18 MONTHS \$64,700

CANISUS COLLEGE

BAYER, DEWEY J; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010068)*; 24 MONTHS \$1,500

COLLEGE AT BROCKPORT

DILCHER, RONALD C. AND JAEGER, GERN W; *COSIP-COOPERATIVE PROJECT FOR TWO YEAR COLLEGES (Y009718)*; 33 MONTHS \$69,300

COLLEGE AT OSWEGO

ZYCH, DALE A; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010145)*; 24 MONTHS \$900

COLUMBIA UNIVERSITY

LOMAX, ALAN, AND ARENSBURG, CONRAD M; *CHAREOMETRICS A METH FOR COMP ANAL/BEHAVIORAL ISO-MORPHICS IN CULTURE (Y009338)*; 12 MONTHS \$119,710

CORNELL UNIVERSITY

FOTTLE, CHRISTOPHER; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010176)*; 24 MONTHS \$17,900

HOLCOMB, D F; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010441)*; 24 MONTHS \$18,400

HUNTER COLLEGE

CECCARINI, COSTANTE; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010945)*; 24 MONTHS \$13,500

LEHMAN COLLEGE

VALDOVINOS, JACK G; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010352)*; 24 MONTHS \$10,000

MATHEMATICAL ASSOCIATION OF AMERICA

RHEINBOLDT, WERNER C; *COURSE CONT IMPVMNT, COLLEGE-MATHEMATICS (Y010424)*; 24 MONTHS \$65,900

LUCE, R DUNCAN, *COURSE CONT IMPVMNT, COLLEGE-MATHEMATICS (Y010485)*; 36 MONTHS \$79,900

NEW YORK UNIVERSITY

GOLDSTEIN, MAX; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010440)*; 24 MONTHS \$16,100

POLYTECHNIC INSTITUTE OF BROOKLYN

CAHILL, PATRICK; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010148)*; 24 MONTHS \$19,800

RENSELAER POLYTECHNIC INSTITUTE

LEITNER, ALFRED; *FILMS DEMONSTRATING ATOMIC STRUCTURE VIA ATOMIC SPECTRA (Y00993 001)*; 12 MONTHS \$20,800

WAIT, SAMUEL C JR, AND BAUER, DOUGLAS J; *COSIP-COOPERATIVE PROJECT FOR 4-YR COLLEGES (Y009717)*; 18 MONTHS \$44,900

KAUFMAN, HOWARD; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010076)*; 24 MONTHS \$5,600

JANZ, O J; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010094)*; 24 MONTHS \$8,000

ST LAWRENCE UNIVERSITY

ENNS, MELVIN P; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010351)*; 24 MONTHS \$4,900

STATE UNIVERSITY AT BINGHAMTON

STANNARD, CARL; *TECHNICIAN EDUCATION DEVELOPMENT PROGRAM (Y009390 001)*; 18 MONTHS \$99,744

STATE UNIVERSITY AT BUFFALO

LEE, GEORGE C; *DEVELOPMENT OF A SOCIO-ENGINEERING PROGRAM (Y009338)*; 36 MONTHS \$18,925

MARTENS, HINRICH R; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010188)*; 24 MONTHS \$20,000

SYRACUSE UNIVERSITY

COFLIN, WILLIAM D; *DEVELOP/SEMINATION/LEARNING PACKAGES FOR UNDERGRAD ED IN INTERNATL RELA (Y009345)*; 45 MONTHS \$99,100

KLARE, WARREN F; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010100)*; 24 MONTHS \$20,000

STABLER, EDWARD P; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010103)*; 24 MONTHS \$14,400

UNIVERSITY OF ROCHESTER

HARBISON, KENNETH O; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010063)*; 24 MONTHS \$20,000

BANNISTER, T T; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010189)*; 24 MONTHS \$11,900

NORTH CAROLINA**CATAWBA COLLEGE**

GOODMAN, TED W; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010810)*; 24 MONTHS \$20,000

EAST CAROLINA UNIVERSITY

MATTHEIS, FLOYD E; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010146)*; 24 MONTHS \$20,000

LENOIR COMMUNITY COLLEGE

KEEL, LOWELL L; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010845)*; 24 MONTHS \$300

NORTH CAROLINA AGRICULTURAL & TECH STATE UNIV

JACKSON, ARTHUR F; *BLACK COLLEGES (FOUR-YEAR) (Y009705)*; 36 MONTHS \$312,200

SULLIVAN, WALTER W; *BLACK COLLEGES (FOUR-YEAR) (Y009709)*; 36 MONTHS \$237,900

THOMPSON JR, C L; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010878)*; 24 MONTHS \$7,200

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

LYNCH, W K, AND NESBIT, R P; *COSIP-COOPERATIVE PROJECT FOR 4-YR COLLEGES (Y009710)*; 6 MONTHS \$48,700

THEIL, ELIZABETH C; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010800)*; 24 MONTHS \$4,900

PEMBROKE STATE UNIVERSITY

WALLINGFORD, JOHN S; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010089)*; 24 MONTHS \$5,900

REGIONAL ED LAB FOR THE CAROLINAS & VIRGINIA

STRALEY, JOSEPH W; *REVITALIZATION OF THE FRESHMAN-SOPHOMORE PHYSICS PROGRAM AT TWENTY COLLEGES (Y009831 004*)*; 12 MONTHS \$27,225

SHAW UNIVERSITY

GHOSH, KALYAN K; *BLACK COLLEGES (FOUR-YEAR) (Y010460)*; 36 MONTHS \$342,000

ELKORBY, ABDUL H; *BLACK COLLEGES (FOUR-YEAR) (Y010468)*; 36 MONTHS \$338,600

UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

PUTERBAUGH, WALTER H; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010392)*; 24 MONTHS \$7,000

UNIVERSITY OF NORTH CAROLINA AT WILMINGTON

THAYER, PAUL A; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010143); 24 MONTHS \$4,900

WESTERN CAROLINA UNIVERSITY

MOODY, TED C; PHYSICAL SCIENCE TEACHERS PROGRAM (Y008701); 24 MONTHS \$167,140

WILCOX, J T; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010331); 24 MONTHS \$16,600

NORTH DAKOTA

JAMESTOWN COLLEGE

CLAFLIN, W JOSEPH; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010283); 24 MONTHS \$4,900

NORTH DAKOTA STATE UNIVERSITY

BUCHHOLZ, EUGENE K; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010106); 24 MONTHS \$5,500

UNIVERSITY OF NORTH DAKOTA

LYKKEN, G I; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010028); 24 MONTHS \$1,000

OHIO

BOWLING GREEN STATE UNIVERSITY

KINSTLE, THOMAS H; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010191); 24 MONTHS \$7,100

CASE WESTERN RESERVE UNIVERSITY

KUPER, ALAN B; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010280); 24 MONTHS \$5,500

CLEVELAND STATE UNIVERSITY

KROUSE, CHARLES L; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010219); 24 MONTHS \$19,500

FINDLAY COLLEGE

STEPHENS, LAWRENCE J; COSIP-INDIVIDUAL INSTITUTIONAL PROJECT (Y009314); 18 MONTHS \$61,400

HEIDELBERG COLLEGE

FORBES, PRESTON; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010109); 24 MONTHS \$5,500

KENT STATE UNIVERSITY

SPIELBERG, N; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010271); 24 MONTHS \$7,800

KENYON COLLEGE

CLIFFORD, L THOMAS; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010350); 24 MONTHS \$7,700

MARIETTA COLLEGE

PRINCE, ALBERT; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010280); 24 MONTHS \$5,900

MIAMI UNIVERSITY

GRIFFIN, CHARLES C; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010150); 24 MONTHS \$4,800

HEIMSCH, CHARLES; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010363); 24 MONTHS \$8,000

OHIO STATE UNIVERSITY

YOVITS, MARSHALL C; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010473); 24 MONTHS \$7,100

OHIO UNIVERSITY

SMITH, IVAN K; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010083); 24 MONTHS \$2,000

UNIVERSITY OF AKRON

KAYA, AZMI; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010266); 24 MONTHS \$8,400

UNIVERSITY OF CINCINNATI

ALEXANDER, JOHN J; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010323); 24 MONTHS \$10,300

UNIVERSITY OF DAYTON

MCDUGALL, KENNETH J; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010288); 24 MONTHS \$3,300

UNIVERSITY OF TOLEDO

JONES JR, MILLARD L; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010284); 24 MONTHS \$5,700

WRIGHT STATE UNIVERSITY

GUPTA, NARESH N; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010037); 24 MONTHS \$20,000

OKLAHOMA

EAST CENTRAL STATE COLLEGE

BULMAN, JOHN; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010232); 24 MONTHS \$600

OKLAHOMA STATE UNIVERSITY

MCCOLLOM, KENNETH A; THE DEVELOPMENT AND IMPLEMENTATION OF PREPROFESSIONAL INDIVIDUAL PRESCRIB INSTR CURR (Y009310 001); 12 MONTHS \$58,560

OSCAR ROSE JUNIOR COLLEGE

PARK, ROBERT G; TECHNICIAN EDUCATION DEVELOPMENT PROGRAM INDIVIDUAL INST (Y010411); 15 MONTHS \$125,000

SOUTHEASTERN STATE COLLEGE

EGGLETON, GORDON; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010283); 24 MONTHS \$1,500

SOUTHWESTERN STATE COLLEGE

ARMOUDIAN, GARABED; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010119); 24 MONTHS \$9,000

ARMOUDIAN, GARABED; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010158); 24 MONTHS \$2,900

HAMM, DONALD I; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010320); 24 MONTHS \$3,500

UNIVERSITY OF OKLAHOMA

BLISS, HORACE H, AND DUNCAN, HOYT D; COSIP-COOPERATIVE PROJECT FOR 4-YR COLLEGES (Y009726); 15 MONTHS \$47,000

KURIGER, WILLIAM L; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010174); 24 MONTHS \$2,700

UNIVERSITY OF TULSA

MCCOY, JEROME D; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010177); 24 MONTHS \$5,300

OREGON

LANE COMMUNITY COLLEGE

PARRO, EUGENE Z; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010311); 24 MONTHS \$2,200

OREGON STATE UNIVERSITY

LAWRENCE, ROBERT; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010114); 24 MONTHS \$5,000

KLINGEMAN, PETER C; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010188); 24 MONTHS \$2,500

LARSON, MILTON B; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010270); 24 MONTHS \$9,500

PORTLAND STATE UNIVERSITY

MCCLURE, DAVID W; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010092); 24 MONTHS \$1,500

REED COLLEGE

WEIR, WILLIAM D; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010202); 24 MONTHS \$20,000

PENNSYLVANIA

ALBRIGHT COLLEGE

HELLER, MORGAN S; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010042); 24 MONTHS \$4,100

ALLEGHENY COLLEGE

BIVENS, RICHARD L; COLLEGE SCIENCE IMPROVEMENT PROGRAM (INDIVIDUAL INSTITUTIONAL PROJECTS) (Y009336); 36 MONTHS \$299,700

BUCKNELL UNIVERSITY

NICKELSEN, RICHARD; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010084); 24 MONTHS \$2,100

TONZETICH, JOHN; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010154); 24 MONTHS \$6,400

ADKINS, DAVID M; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010357); 24 MONTHS \$4,300

CARNEGIE-MELLON UNIVERSITY

LUPIS, C H P; A PEDAGOGICAL TOOL FOR THE TEACHING OF METALLURGY & MATERIALS SCIENCE (Y009336); 24 MONTHS \$83,250

CHATHAM COLLEGE

HESS, CONRAD M; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010182); 24 MONTHS \$4,000

CHEYNEY STATE COLLEGE

OLIVER, JAMES B; BLACK COLLEGES (FOUR-YEAR) (Y010467); 24 MONTHS \$287,400

ELIZABETHTOWN COLLEGE

LAUGHLIN, RONALD L; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010373); 24 MONTHS \$2,700

FRANKLIN AND MARSHALL COLLEGE

STEWART, CHARLES N; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010141); 24 MONTHS \$3,900

WAFD, WILLIAM F; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010188); 24 MONTHS \$5,800

HAVERFORD COLLEGE

DUNATHAN, H C; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010291); 24 MONTHS \$14,600

JUNIATA COLLEGE

SCHETTLER, PAUL D; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010881); 24 MONTHS \$5,500*

KEYSTONE JUNIOR COLLEGE

CUPILLARI, THOMAS G; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y009708); 12 MONTHS \$3,430*

LASALLE COLLEGE

WILLENS, JEFFREY B; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010376); 24 MONTHS \$3,000*

LEHIGH UNIVERSITY

LUYBEN, W L; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010409); 24 MONTHS \$14,700*

PENNSYLVANIA STATE UNIVERSITY

WEIDHAAS, ERNEST R; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010183); 24 MONTHS \$4,900*

PMC COLLEGES

GOTTLIEB, IRVIN M; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010377); 24 MONTHS \$1,700*

SUSQUEHANNA UNIVERSITY

GIFFIN, GYNITH; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010187); 24 MONTHS \$5,400*

SWARTHMORE COLLEGE

GILBERT, CHARLES F; *COSIP-INDIVIDUAL INSTITUTIONAL PROJECT (Y009313); 42 MONTHS \$270,400*

TEMPLE UNIVERSITY

CREAMER, ROBERT H; *TECHNICIAN EDUCATION DEVELOPMENT PROGRAM (Y010173); 36 MONTHS \$130,000*

UNIVERSITY OF PITTSBURGH

FLEMINO, JOHN F; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010279); 24 MONTHS \$17,800*

UNIVERSITY OF SCRANTON

DUNSTONE, JOHN J; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010339); 24 MONTHS \$5,600*

WASHINGTON AND JEFFERSON COLLEGE

VINSON, JOE A; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010037); 24 MONTHS \$3,700*

WAYNESBURG COLLEGE

LACOUNT, ROBERT B; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010260); 24 MONTHS \$3,600*

PENNSYLVANIA STATE UNIVERSITY-BEAVER CAMPUS

WEIDHAAS, ERNEST R; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010188); 24 MONTHS \$4,900*

PUERTO RICO**INTER AMERICAN UNIVERSITY OF PUERTO RICO**

VERTER, HERBERT S; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010363); 24 MONTHS \$6,300*

RHODE ISLAND**PROVIDENCE COLLEGE**

NASSIFF, PETER J; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010336); 24 MONTHS \$900*

RHODE ISLAND COLLEGE

NAZARIAN, JOHN; *PILOT PROGAN INNOVATIVE METHOD/TRAINING CHEMISTRY PHYSICS TEACHERS (Y010033); 27 MONTHS \$73,300*

UNIVERSITY OF RHODE ISLAND

COBB, J STANLEY; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010059); 24 MONTHS \$16,800*

POULARIKAS, ALEXANDER; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010281); 24 MONTHS \$10,000*

SOUTH CAROLINA**CLEMSON UNIVERSITY**

HELGERT, H J; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010251); 24 MONTHS \$10,900*

FRIENDSHIP JUNIOR COLLEGE

SEN, SHUXDEB; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010306); 24 MONTHS \$3,100*

FURMAN UNIVERSITY

SMITH, GARY C; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010113); 24 MONTHS \$7,900*

BREWER, CHARLES L; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010227); 24 MONTHS \$3,900*

PRESBYTERIAN COLLEGE

JAMES, FREDERICK C; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010323); 24 MONTHS \$8,200*

S C STATE BRD TECHNICAL & COMPREHENSIVE EDU

SCOTT, W WAYNE; *TED TECHNICIAN EDUC DEVELOPMENT FOR TECHNICAL EDUCATION CENTERS (Y010178); 27 MONTHS \$218,150*

SPARTANBURG COUNTY TECHNICAL EDUCATION CENTER

WINGATE, JAMES A; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010400); 24 MONTHS \$9,000*

UNIVERSITY OF SOUTH CAROLINA

HOLMES, ROGER A; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010290); 24 MONTHS \$20,000*

SOUTH DAKOTA**MOUNT MARTY COLLEGE**

DIGGINS, SR KIERAN; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010130); 24 MONTHS \$4,000*

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

GROVES, WILLIAM N; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010062); 24 MONTHS \$7,000*

SOUTH DAKOTA STATE UNIVERSITY

NELSON, GORMAN R; *EVALUATION AND CONTINUED DEVELOPMENT OF GEOMETRIC AND GRAPHIC AIDS FOR COLLEGE CALCULUS (Y008901 002); 3 MONTHS \$4,950*

TUNHEIM, JERALD A; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010218); 24 MONTHS \$4,100*

TENNESSEE**CHRISTIAN BROTHERS COLLEGE**

STRAIGHT, JAMES W; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010349); 24 MONTHS \$2,700*

EAST TENNESSEE STATE UNIVERSITY

HUANG, THOMAS T S; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010381); 24 MONTHS \$3,000*

LAMBUTH COLLEGE

BEASLEY, JAMES G; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010374); 24 MONTHS \$1,200*

LANE COLLEGE

MCCLURE, WESLEY C; *BLACK COLLEGES (FOUR-YEAR) (Y009708); 39 MONTHS \$240,900*

OAK RIDGE ASSOCIATED UNIVERSITIES

DUGGAN, JEROME L; *SCIENCE CURRICULUM IMPROVEMENT PROGRAM (AG00386); 24 MONTHS \$53,400*

TENNESSEE TECHNOLOGICAL UNIVERSITY

MARTIN, ROBERT E; *TECH AQUA PROJECT (Y007479 001*); \$30,000*

UNIVERSITY OF TENNESSEE, KNOXVILLE

BISHOP JR, ASA ORIN; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010189); 24 MONTHS \$20,000*

NOEL, CHARLES J; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010292); 24 MONTHS \$10,800*

UNIVERSITY OF THE SOUTH

CAMP, DAVID B; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010048); 24 MONTHS \$4,900*

VANDERBILT UNIVERSITY

MARX, MORRIS L AND SULLIVAN, G WAYNE; *COSIP-COOPERATIVE PROJECT FOR 2-YR COLLEGES (Y009741); 30 MONTHS \$33,800*

WAGNER, ROBERT A; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010214); 24 MONTHS \$9,900*

TEXAS**AMARILLO COLLEGE**

ADKINS, A F; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010309); 24 MONTHS \$3,800*

AUSTIN COLLEGE

MACKEY, J LINN; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010182); 24 MONTHS \$17,700*

DALLAS BAPTIST COLLEGE

ROBBINS, HERBERT C; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010389); 24 MONTHS \$1,600*

HOUSTON BAPTIST COLLEGE

WARREN, DORIS C; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010271); 24 MONTHS \$1,500*

LUBBOCK CHRISTIAN COLLEGE

SHERROD, LYNN; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010381); 24 MONTHS \$1,000*

SOUTHERN METHODIST UNIVERSITY

NARDIZZI, LOUIS R; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010153); 24 MONTHS \$8,200*

ST MARY'S UNIVERSITY OF SAN ANTONIO

MACHIA, BOLLERA; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010611); 24 MONTHS \$1,900
 FETZER, HOMER D; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010107); 24 MONTHS \$2,900

TEXAS A & M UNIVERSITY

PLASS, GILBERT; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010221); 24 MONTHS \$10,400

TEXAS CHRISTIAN UNIVERSITY

BRITTON, JOSEPH C; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010216); 24 MONTHS \$4,900

TEXAS LUTHERAN COLLEGE

BIEB, H D; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010021); 24 MONTHS \$6,500

TEXAS SOUTHERN UNIVERSITY

INGRAM, THEODORE; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010131); 24 MONTHS \$2,000

TEXAS STATE TECHNICAL INSTITUTE

RONEY, MAURICE W; A CONFERENCE TO EXPLORE THE NEED FOR RESEARCH AND DEVELOPMENT IN TECHNICAL EDUCATION (Y009707); 6 MONTHS \$8,200

TEXAS TECH UNIVERSITY

KRISTIANSEN, M; DEVELOPMENT OF LASER EXPERIMENTS FOR UNDERGRADUATE ELECTRICAL ENGINEERING STUDENTS (Y004741 001); 12 MONTHS \$700

TROST, THOMAS F; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010070); 24 MONTHS \$9,200

PORTNOY, WILLIAM M; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010232); 24 MONTHS \$3,300

UNIV OF TEXAS AT ARLINGTON

BAERWALDT, JAMES; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010217); 24 MONTHS \$4,700

UNIV OF TEXAS AT AUSTIN

LEE, ADDISON E; DEVELOPMENT OF A NEW INTERDISCIPLINARY EARTH SCIENCE COURSE (Y009335); 12 MONTHS \$86,694

ALLAN, J J LAGOWSKI J; COURSE CONT IMPVMT, COLLEGE-INTERDISCIPLINARY USE/COMPUTER-BASED TEACHING TECHNIQUES IN UNDER-GRAD SCI & ENG EDUC (Y009340); 12 MONTHS \$371,150

BOYER, ROBERT E, AND LOKKE, DONALD H; COSIP-COOPERATIVE PROJECT FOR 2-YR COLLEGES (Y009717); 15 MONTHS \$68,900

NOLLE, A WILSON; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010134); 24 MONTHS \$6,100

SCHMIDT, PHILIP S; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010142); 24 MONTHS \$19,500

UNIV OF TEXAS AT EL PASO

MAXWELL, GERALD G; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010111); 24 MONTHS \$20,000

CANARIS, A G; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010214); 24 MONTHS \$14,700

UNIVERSITY OF HOUSTON

WALKER, ROBERT H; A COORDINATED PROGRAM IN PHYSICAL SCIENCE AND METHODS FOR PRE-SERVICE ELEMENTARY TEACHERS (Y009334); 26 MONTHS \$234,615

TRAYLOR, D REGINALD, AND GILSON, CLAUDE F; COSIP-COOPERATIVE PROJECT FOR 2-YR COLLEGES (Y009718); 9 MONTHS \$46,700

WILEY COLLEGE

BEIL, RALPH GREGORY; BLACK COLLEGES (FOUR-YEAR) (Y010426); 24 MONTHS \$166,600

UTAH

BRIGHAM YOUNG UNIVERSITY

CHASE, KENNETH WAYNE; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010101); 24 MONTHS \$9,000

UNIVERSITY OF UTAH

BAER, A D; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010043); 24 MONTHS \$2,000

HATHAWAY, RALPH R; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010219); 24 MONTHS \$3,700

UTAH STATE UNIVERSITY

FLETCHER, WILLIAM F; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010020); 24 MONTHS \$13,400

VERMONT

NORWICH UNIVERSITY

PYPER, GORDON R; TECHNICAL EDUCATION DEVELOPMENT PROGRAM INDIVIDUAL INST (Y010480); 36 MONTHS \$175,240

UNIVERSITY OF VERMONT

BROWN, DAVID B; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010090); 24 MONTHS \$9,200

VIRGINIA

NONE; OTHER PROGRAM AWARDS (01AWDS); \$1,500

AVERETT COLLEGE

BRACHMAN, RUSSELL C; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010228); 24 MONTHS \$5,900

COLLEGE OF WILLIAM AND MARY

CEAWFORD, GEORGE W; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010201); 24 MONTHS \$2,500

HAMPTON INSTITUTE

DUNCAN, NANCY C; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010127); 24 MONTHS \$800

NORFOLK STATE COLLEGE

HARRIS, JONATHAN T; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010268); 24 MONTHS \$2,900

OLD DOMINION UNIVERSITY

KUPER, HARRY S; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010050); 24 MONTHS \$4,300

DEAL, JOSEPH H; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010171); 24 MONTHS \$14,600

UNIVERSITY OF RICHMOND

TOWLE, DAVID W; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010122); 24 MONTHS \$6,600

UNIVERSITY OF VIRGINIA

MOCHEL, EDWARD V; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010099); 24 MONTHS \$2,300

HAYLAND, JOHN KENNETH; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010231); 24 MONTHS \$3,900

HUBBARD, ROBERT M; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010252); 24 MONTHS \$5,500

VIRGINIA COMMONWEALTH UNIVERSITY

WORLAND, PETER B; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010120); 24 MONTHS \$5,000

VIRGINIA STATE COLLEGE

STONE, DAVID M; COSIP-INDIVIDUAL INSTITUTIONAL PROJECT (Y009341); 18 MONTHS \$137,700

BECK, JAMES D; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010097); 24 MONTHS \$4,800

WASHINGTON

EDMONDS COMMUNITY COLLEGE

HARDY, SHEILA A; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010211); 24 MONTHS \$4,300

GONZAGA UNIVERSITY

REMONDINI, DAVID J; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010322); 24 MONTHS \$2,300

NORTHWEST COLLEGE

GUSTAFSON, J PHILIP; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010328); 24 MONTHS \$500

SEATTLE PACIFIC COLLEGE

BRUCE, DAVID S; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010222); 24 MONTHS \$5,600

UNIVERSITY OF PUGET SOUND

BLANKS, GEORGE A; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010320); 24 MONTHS \$4,700

WASHINGTON STATE UNIVERSITY

AUSTIN, GEORGE T; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010214); 24 MONTHS \$3,800

CROSBY, GLENN A; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010335); 24 MONTHS \$18,000

WEST VIRGINIA

WEST VIRGINIA UNIVERSITY

HAMILTON, R M; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010271); 24 MONTHS \$6,500

SWARTWOUT, ROBERT E; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010279); 24 MONTHS \$4,100

WISCONSIN

CARROLL COLLEGE

FALLOATTER, MICHAEL; INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y010272); 24 MONTHS \$6,100

DISTRICT ONE TECHNICAL INSTITUTE

ATKINS, WAYNE R; *TECHNICIAN EDUCATION DEVELOPMENT PROGRAM INDIVIDUAL INST (Y01042)*; 36 MONTHS \$73,960

LAWRENCE UNIVERSITY

CAMPOS, FRANCIS THOMAS; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y01008)*; 24 MONTHS \$12,400

MILWAUKEE SCHOOL OF ENGINEERING

BRAUN, ROBERT W; *TECHNICIAN EDUCATION DEVELOPMENT PROGRAM INDIVIDUAL INST (Y01017)*; 12 MONTHS \$33,680

UNIVERSITY OF WISCONSIN, MILWAUKEE

STEBER, GEORGE R; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y01034)*; 24 MONTHS \$9,200

WISCONSIN STATE UNIVERSITY, EAU CLAIRE

DUERST, RICHARD; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y01011)*; 24 MONTHS \$5,200

SMOOT, KENNETH E; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y01036)*; 24 MONTHS \$6,100

WISCONSIN STATE UNIVERSITY, OSHKOSH

JONES, NORRIS W; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y01027)*; 24 MONTHS \$11,500

WISCONSIN STATE UNIVERSITY, SUPERIOR

MEYER, FRANK H; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y01037)*; 24 MONTHS \$5,800

WYOMING**UNIVERSITY OF WYOMING**

PEPIN, THEODORE JOHN; *INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM (Y01046)*; 24 MONTHS \$10,000

GRADUATE LEVEL**CALIFORNIA****CALIFORNIA STATE COLLEGE AT SONOMA**

BENKO, PAUL V; *PROMOTING PUBLIC UNDERSTANDING OF SCIENCE THROUGH ENVIRONMENTAL EDUCATION (M03180)*; 15 MONTHS \$51,100

STANFORD UNIVERSITY

RUBIN, DAVID M; *STUDY ON MASS MEDIA COVERAGE OF ENVIRONMENTAL PROBLEMS (Z00177 002)*; 4 MONTHS \$7,000

DUNN, DONALD A; *CREATION OF A TESTBED FOR INNOVATIVE EDUCATIONAL TV EXPERIMENTS (Z002537)*; 12 MONTHS \$99,490

UNIVERSITY OF CALIFORNIA, BERKELEY

KING, C JUDSON; *GRADUATE PROGRAM IN CHEMICAL PROCESS DESIGN AND ENGINEERING (Z000773 002)*; 12 MONTHS \$23,220

TANNENBAUM, PERCY H; *INTERDISCIPLINARY GRADUATE PROGRAM IN POLICY ANALYSIS (Z004302)*; 18 MONTHS \$101,900

UNIVERSITY OF CALIFORNIA, LOS ANGELES

LIBBY, WILLARD F; *DOCTORAL PROGRAM IN ENVIRONMENTAL SCIENCE AND ENGINEERING (Z002222)*; 12 MONTHS \$198,555

KERNAN, GERARD; *INTERDISCIPLINARY STUDENT-ORIGINATED RESEARCH TRAINING- PLANNING FOR METEOROLOGICAL AND POLLUTANT MEASUREMENT NETWORKS IN CALIFORNIA (Z002273)*; 17 MONTHS \$22,550

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

JACCARINO, VINCENT; *MASTERS DEGREE PROGRAM IN SCIENTIFIC INSTRUMENTATION (Z002274)*; 24 MONTHS \$117,150

COLORADO**THORNE ECOLOGICAL INSTITUTE**

WILLARD, BEATRICE E. AND OAKLEIGH, THORNE II; *PARTIAL SUPPORT FOR SEMINAR ON ENVIRONMENTAL ARTS AND SCIENCES (M031045)*; 12 MONTHS \$15,000

UNIVERSITY OF COLORADO

BARNES, FRANK S; *AN INTERDISCIPLINARY EDUCATION PROGRAM IN TELECOMMUNICATIONS (Z002171 001)*; 12 MONTHS \$50,300

UNIVERSITY OF DENVER

YEGGE, ROBERT B; *MASTER OF SCIENCE IN LAW AND SOCIETY DEGREE (Z002271)*; 12 MONTHS \$50,090

YEGGE, ROBERT B; *MASTER OF SCIENCE IN LAW AND SOCIETY DEGREE (Z002271 001)*; \$14,126

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (01AWDS); \$611

AMERICAN ASSOCIATION FOR ADVANCEMENT SCIENCE

BEVAN, WILLIAM; *EXCHANGE OF SCIENTISTS WITH THE ALL-UNION SOCIETY 'ZNAIYE' U.S.S.R. (F031225*)*; 36 MONTHS \$16,060

BUTLER, JAMES C; *SCIENCE '71: A REPORT TO THE NATION (M03144)*; 3 MONTHS \$25,000

BUTLER, JAMES C; *SCIENCE '71: A REPORT TO THE NATION AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE (M03144 001)*; 1 MONTHS \$2,470

BUTLER, JAMES C; *COMMUNICATIONS PROGRAMS IN THE PUBLIC UNDERSTANDING OF SCIENCE AND TECHNOLOGY (M031861)*; MONTHS \$150,000

AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES

OLIVE, JOHN R; *SECOND NATIONAL BIOLOGICAL CONGRESS (B031327*)*; 12 MONTHS \$10,000

CENTER FOR GOVERNMENTAL STUDIES

FREDERICKSON, H GEORGE; *PREPARATION OF EDUCATIONAL MATERIALS ON PUBLIC POLICY, ADMINISTRATION, AND URBAN NEIGHBORHOODS (Z002270)*; 12 MONTHS \$44,680

CORPORATION FOR PUBLIC BROADCASTING

RUBIN, PHILIP A; *FILM ON CABLE TELEVISION (I022181*)*; 6 MONTHS \$5,000

D C CNCL ENGINEERING & ARCHITECTURAL SOC INC

MORAN, DAVID H; *TELEvised FORUMS ON TECHNOLOGY AND SOCIETY (M031607)*; 7 MONTHS \$12,500

FEDERAL CITY COLLEGE

SAVITZ, MAXINE L; *SCIENCE MOBILE LABORATORY PROJECT FOR DISTRICT OF COLUMBIA SCHOOLS AND COMMUNITY (W006348 001*)*; MONTHS \$18,176

GEORGE WASHINGTON UNIVERSITY

LOGSDON, JOHN M; *SCIENCE, TECHNOLOGY AND PUBLIC POLICY (S031604*)*; 36 MONTHS \$54,900

GEORGETOWN UNIVERSITY

RAMEY, ESTELLE R; *SEMINAR SERIES- PUBLIC POLICY AND THE DIRECTION OF AMERICAN SCIENCE AND TECHNOLOGY (M022219 001)*; MONTHS \$5,000

GREATER WASHINGTON EDUCATIONAL TV ASSOCIATION

NEWMAN, ROBERT; *DOCUMENTARY PROFILES OF CONTEMPORARY AMERICAN SCIENTISTS (M031163)*; 6 MONTHS \$4,800

SCIENCE SERVICE INC

SHERBURNE, E; *GENERAL SUPPORT GRANT TO SCIENCE SERVICE (M022750 001)*; 12 MONTHS \$100,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

KELLY, WILLIAM C; *PARTIAL SUPPORT OF THE NATIONAL BOARD ON GRADUATE EDUCATION (C010222)*; 12 MONTHS \$50,000

FLORIDA**FLORIDA ATLANTIC UNIVERSITY**

SCHUIDELL, JOHN M; *AN EXPERIMENT IN THE USE OF TIME SHARING FOR STRENGTHENING GRADUATE EDUCATION IN ECONOMIC AND THE OTHER SOCIAL SCIENCES (Z002275)*; 12 MONTHS \$42,455

GEORGIA**EMORY UNIVERSITY**

DOBY, JOHN T; *EXPERIMENTAL PLANNING-RETRAINING PROJECT FOR THE REORIENTATION OF SCIENTISTS AND TECHNOLOGISTS (Z002254)*; 3 MONTHS \$51,220

LESTER, CHARLES T; *EXPERIMENTAL PLANNING-RETRAINING PROJECT FOR THE REORIENTATION OF SCIENTISTS AND TECHNOLOGISTS (Z002254 001*)*; 6 MONTHS \$0

GEORGIA INSTITUTE OF TECHNOLOGY

PARSONSON, PETER S; *TRAINING AIDS IN TRAFFIC-SIGNAL ENGINEERING (Z002561)*; 15 MONTHS \$49,960

GEORGIA STATE UNIVERSITY

HADLEY, JOSEPH H; *STRENGTHENING OF GRADUATE INSTITUTIONAL PROGRAM IN PHYSICS (Z001800 001)*; 13 MONTHS \$38,140

HAWAII**UNIVERSITY OF HAWAII**

HARRENSTEIN, HOWARD P; *ENVIRONMENTAL CONFERENCES ON THE PUBLIC UNDERSTANDING OF SCIENCE FOR HAWAII (M031032)*; MONTHS \$43,100

ILLINOIS**UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE**

LIPSON, JOSEPH; *ALTERNATIVE DOCTORAL PROGRAM IN SCIENCE EDUCATION (Z002564)*; 39 MONTHS \$114,956

UNIVERSITY OF ILLINOIS AT URBANA

UMPLEBY, STUART A; *SOCIAL CYBERNETICS AND COMPUTERS BASED COMMUNICATIONS MEDIA (Z002558)*; 14 MONTHS \$26,110

MICHIGAN

MICHIGAN STATE UNIVERSITY

ENKE, CHRISTIE O; *INTERDISCIPLINARY PROGRAM IN SCIENTIFIC INSTRUMENTATION* (Z002297); 30 MONTHS \$95,720

WESTERN MICHIGAN UNIVERSITY

MANIS, JEROME G; *THE URBAN COMMUNITY AS LAB AN APPROACH TO THE SCI STUDY/SOC PROBLEMS* (Z002298); 18 MONTHS \$34,980

MISSOURI

ST LOUIS AQUACENTER INC

KENDALL, HENRY C; *FEASIBILITY STUDY ON CONVERSION OF SPANISH PAVILION TO AN AQUARIUM/ECOLOGY COMPLEX* (M032281); 12 MONTHS \$15,500

UNIVERSITY OF MISSOURI, COLUMBIA

STEPHENSON, WILLIAM; *SEMINAR SERIES ON SCIENCE FOR NEWS EDITORS* (M032282); 9 MONTHS \$50,000

NEW YORK

AMERICAN INSTITUTE OF PHYSICS

SLACK, LEWIS; *FILM PRODUCTION IN PHYSICS AND ASTRONOMY* (M030283); 12 MONTHS \$64,900

SLACK, LEWIS; *FILM PRODUCTION IN PHYSICS AND MEDICINE* (M030285 001); 8 MONTHS \$29,900

AUDIO PRODUCTIONS

MOONEY, PETER J; *SEARCH ENCOUNTERS WITH SCIENCE* (C664000 002); 3 MONTHS \$1,000

MOONEY, PETER J; *AMENDMENT OF CONTRACT NSF C664 (C664000 002); \$5,000*

CITY UNIVERSITY OF NEW YORK SYSTEM OFFICE

HAYWARD, D GEOFFREY; *INTERDISCIP STUD ORIG RESCH TRNG PROBLEM SOLVING IN URBAN PLAYGROUNDS* (Z002562); 6 MONTHS \$21,790

NEW YORK UNIVERSITY

LANDIS, FRED; *DEVELOPMENT OF A COOPERATIVE GRADUATE PROGRAM IN ENGINEERING AND PUBLIC ADMINISTRATION* (Z002274); 24 MONTHS \$79,815

QUEENS COLLEGE

MAZIN, GEORGE; *POPULATION DENSITY AND SOCIAL PATHOLOGY IN SELECTED AREAS OF NEW YORK CITY* (Y008659*); 12 MONTHS \$4,280

ROCKEFELLER UNIVERSITY

KONE, EUGENE H; *BASIC RESEARCH AND HUMAN WELFARE* (M031341); 9 MONTHS \$99,000

STATE UNIVERSITY AT BUFFALO

MARTENS, HINRICH R; *A NEW PROGRAM IN MECHANICAL ENGINEERING DESIGN* (Z002299); 24 MONTHS \$81,705

UNITED ENGINEERING TRUSTEES

SHAW, MILTON C; *PARTIAL SUPPORT OF A CONFERENCE ON MAKING GRADUATE ENGINEERING MORE RELEVANT TO INDUSTRIAL NEEDS* (Z002360); 6 MONTHS \$2,500

OHIO

BATTELLE MEMORIAL INSTITUTE

TRESSEL, GEORGE W; *FILMED REPORT ON THE 'STATE OF SCIENCE'* (M032281); 5 MONTHS \$53,210

PENNSYLVANIA

PENNSYLVANIA STATE UNIVERSITY

FUNKHOUSER, G RAY; *WORKSHOP ON THE GOALS AND METHODS OF ASSESSING THE PUBLIC'S UNDERSTANDING OF SCIENCE* (M035058); 6 MONTHS \$17,500

UNIVERSITY OF PITTSBURGH

BELZER, JACK; *STUDY AND WORKSHOP ON CURRICULUM DEVELOPMENT IN INFORMATION SCIENCE* (Z002525); 18 MONTHS \$25,320

TENNESSEE

TENNESSEE TECHNOLOGICAL UNIVERSITY

MARTIN, ROBERT E; *TECH AQUA PROJECT* (Y007678 001*); \$10,150

WASHINGTON

UNIVERSITY OF WASHINGTON

WENK, EDWARD JR; *SOCIAL MANAGEMENT OF TECHNOLOGY* (Q000004 001*); 15 MONTHS \$28,000

PLANNING AND POLICY STUDIES AND INTERGOVERNMENTAL SCIENCE PROGRAMS

CALIFORNIA

STANFORD UNIVERSITY

DUNN, D A, PARKER, E B, AND ROSSE, J N; *COMMUNICATIONS TECHNOLOGY AND PUBLIC POLICY* (S03J822); 12 MONTHS \$104,200
DUNN, D A, PARKER, E B, AND ROSSE, J N; *COMMUNICATIONS TECHNOLOGY AND PUBLIC POLICY* (S03J822 001); \$2,300

COLORADO

NONE; OTHER PROGRAM AWARDS (01AWDS); \$2,500

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (01AWDS); \$7,805

AMERICAN PSYCHOLOGICAL ASSOCIATION

COOK, STUART W; *ETHICAL STANDARDS FOR PSYCHOLOGICAL RESEARCH* (S04J301); 6 MONTHS \$5,500

AUTOMATED SYSTEMS CORPORATION

MORRISON, HOWARD I; *SURVEY SYSTEM TASK ORDER AMENDMENT FOR PHASE II, UNIVERSITY* (C576010 002); 1 MONTHS \$3,511
MORRISON, HOWARD I; *CASE MODULE 4, PHASE I, NSF-C681, T.O. 3 (THIS IS A FIXED-PRICE CONTRACT)* (C681005); 3 MONTHS \$12,351

BROOKINGS INSTITUTION

BROWN, SEYOM, AND FABIAN, LARRY L; *THE IMPACT OF TECHNOLOGICAL CHANGE ON AMERICAN FOREIGN POLICY AND INTERNATIONAL ORGANIZATIONS* (S04J301 X00); 12 MONTHS \$124,800

GENERAL SERVICES ADMINISTRATION

PERDUE, JOHN; *PROGRAMMING SERVICES FOR 'EARNED DEGREES CONFERRED' PROJECT INTERAGENCY AGREEMENT NO. WITH GSA* (CA72001); 2 MONTHS \$10,003

GEORGE WASHINGTON UNIVERSITY

LOGSDON, JOHN M; *SCIENCE, TECHNOLOGY AND PUBLIC POLICY* (S04J302*); 36 MONTHS \$52,000

NSF CONTRACTS

; *DEGREE DATA IN THE ITRF* (C681004); 2 MONTHS \$1,943

JOHNS HOPKINS UNIVERSITY-SCHOOL OF ADVANCED INTERNATIONAL STUDIES

OSGOOD, ROBERT E; *UNITED STATES OCEAN POLICY PROJECT* (S04J278); 12 MONTHS \$86,900

ILLINOIS

NORTHWESTERN UNIVERSITY

RUBENSTEIN, ALBERT H; *A STUDY OF FACTORS UNDERLYING THE INTERNATIONAL TECHNOLOGICAL COMPETITIVENESS AND R & D PRODUCTIVITY OF U.S. FIRMS* (S04J394); 12 MONTHS \$70,200

INDIANA

INDIANA UNIVERSITY, BLOOMINGTON

MULLINS, NICHOLAS C; *THE STRUCTURE OF THE FEDERAL SCIENCE ADVISING SYSTEM* (S04J269); 24 MONTHS \$49,600

MARYLAND

NONE; OTHER PROGRAM AWARDS (02AWDS); \$2,125

MASSACHUSETTS

NONE; OTHER PROGRAM AWARDS (01AWDS); \$5,915

HARVARD UNIVERSITY

PRICE, DON K; *SCIENCE AND PUBLIC POLICY* (S045057); 12 MONTHS \$22,800

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ODONI, AMEDEO; *DOCTORAL DISSERTATION RESEARCH ON SCIENCE POLICY* (S031922); 12 MONTHS \$2,800

SCIENCE AND PUBLIC POLICY STUDIES GROUP

SKOLNIKOFF, EUGENE B; *SCIENCE AND PUBLIC POLICY STUDIES GROUP-TRANSITIONAL SUPPORT* (S041153); 24 MONTHS \$16,000

MICHIGAN

UNIVERSITY OF MICHIGAN

CHEN, KAN; *POLICY RESEARCH ON POPULATION AND ENVIRONMENT* (S041322); 12 MONTHS \$67,800

NEW YORK

COLUMBIA UNIVERSITY

MERTON, ROBERT K; *THE SOCIOLOGY OF SCIENCE* (S04J339 X00*); 12 MONTHS \$40,000

OKLAHOMA

UNIVERSITY OF OKLAHOMA

WHITE, IRVIN L; *DOCTORAL DISSERTATION RESEARCH ON SCIENCE POLICY* (S045069); 12 MONTHS \$2,300

VIRGINIA

NONE; OTHER PROGRAM AWARDS (01AWDS); \$2,500

APPLIED DATA RESEARCH INC-PRINCETON-APPLIED DATA RESEARCH-WASHINGTON

HOLMBURG, DALE L; *TASK ORDER FOR COMPUTER PROGRAMS FOR CASE REPORTING SYSTEMS MODULES 1, 2, AND 3, APPLIED DATA RESEARCH, INC, NSF-C682 T.O. 1* (C682001); 1 MONTHS \$4,762
HOLMBURG, DALE L; *CASE MODULE 4, PHASE II, NSF-C682, T.O. NO. (C682002)*; 2 MONTHS \$9,275

UNIVERSITY OF VIRGINIA-GEORGE MASON COLLEGE

KREILKAMP, KARL; *RESEARCH IN THE THEORY OF SCIENCE POLICY* (S042103); 9 MONTHS \$17,500

WASHINGTON

UNIVERSITY OF WASHINGTON

WENK, EDWARD JR; *SOCIAL MANAGEMENT OF TECHNOLOGY* (Q000004 001*); 15 MONTHS \$86,300

STUDIES OF SCIENTIFIC AND TECHNICAL MANPOWER RESOURCES

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (01AWDS); \$5,161

AMERICAN COUNCIL ON EDUCATION

BAYER, ALAN E, AND CREAGER, JOHN A; *A PLANNING PROGRAM FOR CONTINUING STUDIES OF RECENT ENTRANTS TO SCIENCE AND ENGINEERING* (C711000); 8 MONTHS \$49,375

BUREAU OF LABOR STATISTICS

MOORE, GEOFFREY H; *EMPLOYMENT OF SCIENTISTS AND ENGINEERS 1950-1970* (CA78000); 12 MONTHS \$35,000

MOORE, GEOFFREY H; THE IMPACT OF FEDERAL EXPENDITURES AND PROGRAMS ON SCIENTIFIC AND TECHNICAL EMPLOYMENT REQUIREMENT (CA89000); 12 MONTHS \$100,000

IMMIGRATION & NATURALIZATION SERVICE

LOUGHAN, E A; REQUEST FOR PUNCH CARDS CONTAINING DATA RELATING TO IMMIGRANTS ADMITTED IN THE PROFESSIONAL, TECHNICAL, AND KINDRED WORKERS GROUP AND NONIMMIGRANT TABULATIONS FOR FY 1971 (CA71000); 6 MONTHS \$700

NATIONAL PLANNING ASSOCIATION

LECHT, LEONARD A. AND SKAGGS, ALLEN H; ASSESSING THE IMPACT OF CHANGES IN NATIONAL PRIORITIES FOR THE UTILIZATION OF SCIENTISTS AND ENGINEERS IN THE 1970'S (R034404); 9 MONTHS \$78,928

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

SOLDZ, HERBERT; TASK ORDER FOR AN EXPLORATORY STUDY CONCERNING A COMPREHENSIVE FILE ON SCIENCE AND ENGINEERING DOCTORATES (C410224); 4 MONTHS \$32,800

KELLY, W C; DEVELOPMENT OF A COMPREHENSIVE ROSTER OF DOCTORATES IN THE SCIENCES AND ENGINEERING (C410239); 9 MONTHS \$176,090

MARYLAND

BUREAU OF THE CENSUS

BROWN, GEORGE; PROCESSING OF DATA FOR THE 1970 POSTCENSAL STUDY OF SCIENTIFIC, ENGINEERING, AND TECHNICAL MANPOWER (CA58000 001); 12 MONTHS \$183,000

WEITZMAN, MURRAY S; DEVELOPING A SCIENCE AND ENGINEERING MANPOWER DATA SYSTEM (CA82000); 8 MONTHS \$175,000

VIRGINIA

NONE; OTHER PROGRAM AWARDS (02AWDS); \$492

STUDIES OF EDUCATION AND RESEARCH INSTITUTIONS

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (02AWDS); \$1,224

AMERICAN COUNCIL ON EDUCATION

BLANDFORD, BARBARA; HIGHER EDUCATION PANEL (R000099 002); 12 MONTHS \$40,000

EXOTECH SYSTEMS INC

EHRMAN, LIBERT; PREPARATION OF A SERIES OF TABLES SHOWING INFORMATION ON TRAINEESHIP DEPARTMENTAL DATA (C433017); 8 MONTHS \$9,688

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

CUNNINGHAM, CLAREBETH M; DOCTORATE SURVEY (C310082 002); 12 MONTHS \$71,850

NEW JERSEY

EDUCATIONAL TESTING SERVICE

BOLDT, ROBERT F; TRENDS IN APTITUDES OF GRADUATES IN SCIENCE (C740000); 4 MONTHS \$13,425

STUDIES OF PUBLIC AND PRIVATE FUNDING OF SCIENCE AND TECHNOLOGY

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (02AWDS); \$28,307

NATIONAL PLANNING ASSOCIATION

TERLECKYJ, NESTOR E; STUDY OF THE RELATIONSHIPS BETWEEN RESEARCH AND DEVELOPMENT AND PRODUCTIVITY GROWTH OF INDUSTRIES (R034411); 12 MONTHS \$35,300

MARYLAND

BUREAU OF THE CENSUS

GRETTON, OWEN; ANNUAL SURVEY OF RESEARCH AND DEVELOPMENT IN AMERICAN INDUSTRY (CA04000 001); 12 MONTHS \$85,000

NEW YORK

WRIGHT, ROBERT R; OTHER PROGRAM AWARDS (01AWDS); 12 MONTHS \$46,000

NATIONAL BUREAU OF ECONOMIC RESEARCH

GRABOWSKI, HENRY G; THE RETURNS TO FIRM INVESTMENT OUTLAYS ON RESEARCH AND DEVELOPMENT, PLANT AND EQUIPMENT, AND ADVERTISING (R034410); 18 MONTHS \$47,900

NATIONAL INDUSTRIAL CONFERENCE BOARD INC

CREAMER, DANIEL; MAGNITUDE AND CHARACTERISTICS OF INDUSTRIAL R&D SPENDING ABROAD BY U.S. FIRMS (R034406); 9 MONTHS \$57,000

VIRGINIA

NONE; OTHER PROGRAM AWARDS (02AWDS); \$1,594

STUDIES OF INTERACTIONS OF SCIENCE AND TECHNOLOGY WITH SOCIETY

CONNECTICUT

THE FUTURES GROUP

GORDON, THEODORE J; DESIGN, EXECUTION, AND ANALYSIS OF A DELPHI STUDY (C738000); 4 MONTHS \$14,719

INTERGOVERNMENTAL SCIENCE PROGRAMS

ALABAMA

AUBURN UNIVERSITY

RAINER, REX K JR. AND MOORE, RAYMOND K; APPLICATION OF INTER-DISCIPLINARY UNIVERSITY RESOURCES TO LOCAL GOVERNMENT PROBLEMS (T041795); 6 MONTHS \$23,900

CALIFORNIA

COUNCIL ON INTERGOVERNMENTAL RELATIONS

FRANKUM, RONALD, LIPSON, ALBERT, AND LIPSON, ALBERT; STATE OF CALIFORNIA - RAND SCIENCE AND TECHNOLOGY PROJECT (T032957); 12 MONTHS \$85,000

COLORADO

WESTERN INTERSTATE NUCLEAR BOARD

WHATLEY, ALFRED T; TECHNOLOGY ASSESSMENT OF THE PLOWSHARE PROGRAM (T000021 001); 12 MONTHS \$25,000

CONNECTICUT

FAIRFIELD UNIVERSITY

GOLDMARK, PETER C; INTERSTATE LIAISON WITH NEW RURAL SOCIETY PROJECT (T033507); 12 MONTHS \$16,000

DELAWARE

UNIVERSITY OF DELAWARE

GAITHER, WILLIAM S; DELAWARE STUDY ON MARINE AND COASTAL AFFAIRS (T031587); 3 MONTHS \$7,500

DISTRICT OF COLUMBIA

NONE; OTHER PROGRAM AWARDS (11AWDS); \$22,779

AMERICAN REVOLUTION BICENTENNIAL COMMISSION

HULCHER, WENDELL E; KEY ASPECTS OF AMERICAN FEDERALISM (T000031 *); 6 MONTHS \$10,000

AMERICAN SOCIETY FOR PUBLIC ADMINISTRATION

HENRY, LAURIN L; PUBLIC SCIENCE POLICY-ADMINISTRATION CONFERENCE (T031059); 6 MONTHS \$4,000

CORPORATION FOR PUBLIC BROADCASTING

RUBIN, PHILIP A; FILM ON CABLE TELEVISION (T032184 *); 6 MONTHS \$40,000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

BLOMEYER, LLOYD; A PILOT DEMONSTRATION PROJECT OF TECHNOLOGY APPLICATION FROM AEROSPACE INDUSTRY TO CITY MANAGEMENT (CA58000 001); \$28,900

NEWLAN, IRL E; RANN COMMUNICATIONS PROGRAM (CA85000); 6 MONTHS \$5,000

NATIONAL LEAGUE-CITIES/US CONFERENCE OF MAYORS

DAVIS, ROSS D; MUNICIPAL INVOLVEMENT IN BROADBAND CABLE COMMUNICATIONS (T034904); 12 MONTHS \$28,000

PUBLIC TECHNOLOGY INC

HAYLICK, J ROBERT; TO DESIGN A LOCAL GOVERNMENT SOFTWARE CLEARINGHOUSE (T033326 *); 10 MONTHS \$5,000

UNIVERSITY OF NEW HAMPSHIRE, DURHAM

FAIMAN, ROBERT N; CONFERENCE ON THE UNIVERSITY AS A RESOURCE IN THE SOLUTION OF NATIONAL PROBLEMS (T031481); 12 MONTHS \$30,300

URBAN INSTITUTE

HATRY, HARRY P; PUBLICATION OF THE PROCEEDINGS OF THE SEMINAR ON APPLICATION OF SCIENCE AND TECHNOLOGY TO LOCAL GOVERNMENTS (T000017 001); 6 MONTHS \$3,100

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL
DAVID, HENRY; *STUDY CONFERENCE ON SOCIAL AND BEHAVIORAL SCIENCE (C310850)*; 12 MONTHS \$41,300

GEORGIA**GEORGIA OFFICE OF THE GOVERNOR**

MOCK, JOHN E; *GEORGIA RESEARCH PRIORITIES STUDY (T043307)*; 12 MONTHS \$28,000

HAWAII**HAWAII DEPT OF PLANNING & ECONOMIC DEVELOPMENT**

MARK, SHELLEY M; *STATE SCIENCE AND TECHNOLOGY FORECASTING PROGRAM (T000085 001)*; 12 MONTHS \$21,300

KENTUCKY**COUNCIL OF STATE GOVERNMENTS**

CRIFFIELD, BREVARD; *ROLE OF FEDERAL LABORATORIES IN STATE PUBLIC TECHNOLOGY (R000077 009)*; 6 MONTHS \$30,760

NATL AREA DEV INST OF SPINDLETOP RESEARCH INC-NATIONAL AREA DEV INST OF SPINDLETOP RES INC

LESLIE, JOHN D; *CONFERENCE SERIES ON BALANCED GROWTH (T044511)*; 12 MONTHS \$30,000

MARYLAND

NONE; *OTHER PROGRAM AWARDS (01AWDS)*; \$1,067

MASSACHUSETTS**MASSACHUSETTS DEPARTMENT OF COMMUNITY AFFAIRS**

UNGERER, RICHARD A; *INTERNSHIP IN PUBLIC POLICY (T000032)*; 14 MONTHS \$26,900

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LITTLE, J D C, AND STEVEN, CHANDLER H; *CITIZEN FEEDBACK AND OPINION FORMULATION (T000016 001)*; 7 MONTHS \$15,000

MASSACHUSETTS SCIENCE & TECHNOLOGY FOUNDATION

BARTON, ROBERT S; *TECHNOLOGY EXCHANGE (T000019 001*)*; 12 MONTHS \$13,700

MINNESOTA**MINNESOTA STATE PLANNING AGENCY**

BODDY, FRANK, AND HUNTER, A EDWARD; *A STATE COUNCIL OF ECONOMIC ADVISERS (T044933)*; 6 MONTHS \$23,500

NEW YORK**AMERICAN INSTITUTE OF AERONAUTICS & ASTRONAUTICS**

GREY, JERRY, AND FOX, HERBERT; *APPLICATIONS OF TECHNOLOGY IN URBAN SETTINGS (T044081)*; 12 MONTHS \$22,700

NEW YORK STATE ASSEMBLY

DURVEA, PERRY B JR, AND CHAPMAN, SEVILLE; *NEW YORK ASSEMBLY SCIENTIFIC STAFF SUPPORT (T044162)*; 12 MONTHS \$56,100

OHIO**OHIO DEPARTMENT OF DEVELOPMENT**

GABER, NORMAN H, AND HIGGS, LOUIS; *SYMPOSIUM TO DEVELOP AN R&D AGENDA FOR OHIO (T044877)*; 6 MONTHS \$6,100

SWEET, DAVID C; *RESEARCH AND DEVELOPMENT PLAN FOR THE STATE OF OHIO (T044578)*; 12 MONTHS \$20,000

OHIO STATE UNIVERSITY

BURGESS, PHILIP H, AND HIGGS, LOUIS D; *DESIGN AND DEVELOPMENT OF A PLANNING AND DECISION INFORMATION SYSTEM (PDIS) IN PUERTO RICO (T000030)*; 6 MONTHS \$24,900

OKLAHOMA**OKLAHOMA STATE UNIVERSITY**

HANEMAN, V S JR; *APPLICATION OF INTERDISCIPLINARY UNIVERSITY RESOURCES TO LOCAL GOVERNMENT PROBLEMS (T044870)*; 5 MONTHS \$33,300

UNIVERSITY OF OKLAHOMA

REID, GEORGE W; *GOVERNOR'S CONFERENCE ON R&D PRIORITIES FOR OKLAHOMA (T044804)*; 6 MONTHS \$6,500

REID, GEORGE W; *STUDY OF R&D COMMUNICATION LINKAGE PROBLEMS IN OKLAHOMA (T044804 001)*; 3 MONTHS \$9,000

OREGON**OREGON STATE UNIVERSITY**

ALEXANDER, R M, AND CANNON, KESSLER R; *SCIENCE ADVICE TO OREGON GOVERNMENT (T000014 001)*; 12 MONTHS \$26,850

PENNSYLVANIA**PENNSYLVANIA SCIENCE AND ENGINEERING FDN**

FOX, THOMAS O, AND LAUGHLIN, ROBERT D; *A NATIONAL ACTION CONFERENCE (T044328)*; 12 MONTHS \$26,300

LAUGHLIN, ROBERT D; *AN EXPERIMENTAL EXPANSION OF THE PENNAP TECHNICAL FIELD SERVICES TO SERVE LOCAL GOVERNMENT (T0443010)*; 12 MONTHS \$33,200

PENNSYLVANIA STATE UNIVERSITY

FELLER, IRWIN; *CENTER FOR THE STUDY OF SCIENCE POLICY (T044648)*; 12 MONTHS \$63,500

PHILADELPHIA-OFFICE OF THE MAYOR

RIZZO, FRANK L; *SUPPORT FOR ESTABLISHMENT OF SCIENCE AND TECHNOLOGY ADVISORY COUNCIL FOR THE CITY OF PHILADELPHIA (T044379)*; 12 MONTHS \$42,300

PUERTO RICO**PUERTO RICO INSTITUTE OF SOCIAL TECHNOLOGY**

SLATER, LLOYD E; *GOVERNOR'S WORKSHOP ON R&D PRIORITIES FOR PUBLIC SERVICE IN PUERTO RICO (T044718)*; 12 MONTHS \$14,200

SOUTH DAKOTA**SOUTH DAKOTA STATE PLANNING AGENCY**

MUCHMORE, LYNN; *SOUTH DAKOTA ACADEMIC RESOURCES COUNCIL (T044580)*; 12 MONTHS \$25,900

TEXAS**TEXAS MUNICIPAL LEAGUE**

FLOYD, JACKSON B; *URBAN TECHNOLOGY SEMINAR (T044704)*; 6 MONTHS \$4,000

UNIVERSITY OF HOUSTON

ERELI, ELIEZER; *ANALYZING COASTAL AND MARINE LAW TO DEVELOP AN AUTHORITY FOR COASTAL ZONE MANAGEMENT (T000026 001)*; 6 MONTHS \$24,900

WASHINGTON**CITY OF TACOMA, WASHINGTON**

DONALDSON, WILLIAM V; *TECHNICAL INTEGRATION INTO CITY OPERATIONS (T044903)*; 12 MONTHS \$36,000

DONALDSON, WILLIAM V; *TECHNICAL INTEGRATION INTO CITY OPERATIONS (T044903 001)*; 12 MONTHS \$33,000

BATTELLE MEMORIAL INSTITUTE-BATTELLE NORTHWEST

RASMUSSEN, JOHN E, AND HAYES, FRED O; *CONFERENCE ON RESEARCH CENTERS FOR STATE AND LOCAL GOVERNMENTS (T042805)*; 6 MONTHS \$26,000

STUDIES OF SCIENCE POLICIES AND PROGRAMS**DISTRICT OF COLUMBIA****JOSEPH FROOMKIN INC**

ENDRISS, JACK; *ADDITIONS AND IMPROVEMENTS TO THE NSF ALLOCATION AND IMPACT MODEL (C718000)*; 4 MONTHS \$15,000

NATIONAL ACADEMY OF ENGINEERING

NAFTALIN, MICAH H; *A CONTINUING REVIEW BY THE COMMITTEE ON PUBLIC ENGINEERING POLICY OF THE ENGINEERING NEEDS OF THE U.S. AS WELL AS OF THE APPLICATION OF ENGINEERING TO CRITICAL PUBLIC PROBLEMS (C110134 005)*; 9 MONTHS \$117,855

NATIONAL ACADEMY OF SCIENCES

GREEN, ROBERT E; *SUPPORT OF THE COMMITTEE ON SCIENCE AND PUBLIC POLICY (C310027 009)*; 12 MONTHS \$78,000

OPINION RESEARCH CORPORATION

MASON, FRED M; *COLLECTION AND ANALYSIS OF DATA WITH RESPECT TO THE ATTITUDES OF THE GENERAL PUBLIC TOWARDS SCIENCE AND TECHNOLOGY (C744000)*; 1 MONTHS \$14,000

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL

DOW, RICHARD Y; *SUPPORT OF COMMITTEE ON RADIO FREQUENCIES (C310023 013)*; 12 MONTHS \$12,000

GREGORY, BRUCE N; *STUDY OF PRIORITIES IN ASTRONOMY (C310170 003)*; 12 MONTHS \$16,000

WOOD, GEORGE W; *PARTIAL SUPPORT FOR A STUDY OF NUCLEAR PHYSICS AND THE PLANNING OF A PROSPECTIVE PHYSICS SURVEY (C310172 003)*; 6 MONTHS \$25,000

ILLINOIS**COMPUTER HORIZONS INC**

NARIN, FRANCIS; *EXPLORATION OF THE POSSIBILITY OF GENERATING IMPORTANCE AND UTILIZATION MEASURES BY CITATION INDEXING OF APPROXIMATELY 450 JOURNALS IN THE PHYSICAL SCIENCES (C627000 001)*; 12 MONTHS \$60,345

NARIN, FRANCIS; CONTRACT FOR EXPLORATION OF THE POSSIBILITY OF GENERATING IMPORTANCE AND UTILIZATION MEASURES BY CITATION INDEXING OF APPROXIMATELY 430 JOURNALS IN THE PHYSICAL SCIENCES (C687000 004); 8 MONTHS \$95,841

MASSACHUSETTS

NONE; OTHER PROGRAM AWARDS (02AWDS); \$500

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

HOLLOWAY, J HERBERT, AND FREEMAN, R. B.; PRELIMINARY EXAMINATION OF PROFESSIONAL/MANAGERIAL LABOR MARKETS (Q035113); 40 MONTHS \$21,000

NEW YORK

STATE UNIVERSITY OF NEW YORK SYSTEM OFFICE

DILLON, JAMES D JR, AND BARRY, CRAIG L; DEVELOPMENT OF A SPONSOR/GRANTEE DATA EXCHANGE SYSTEM (Q031411); 12 MONTHS \$10,000

PENNSYLVANIA

CARNEGIE-MELLON UNIVERSITY-CARNEGIE INSTITUTE OF TECHNOLOGY

SUPPORT OF THE AD HOC COMMITTEE FOR THE FOURTH NATIONAL SCIENCE BOARD REPORT ON THE ENGINEERING SCIENCES

(C685000 001); 2 MONTHS \$11,000

TEXAS

RICE UNIVERSITY

PITMAN, RUSSELL H; SUPPORT OF THE AD HOC COMMITTEE FOR THE FIFTH NATIONAL SCIENCE BOARD REPORT ON UNDERGRADUATE EDUCATION IN THE SCIENCES (C697000); 17 MONTHS \$20,000

VIRGINIA

NONE; OTHER PROGRAM AWARDS (01AWDS); \$2,500

PRC COMPUTER CENTER INC

SULLIVAN, JOHNIE A; DETAILED PROGRAM SPECIFICATIONS FOR THE NSF MANAGEMENT INFORMATION SYSTEM (C681000 003); MONTHS \$219,200

PRC DATA SERVICE INC

SULLIVAN, JOHNIE A; CONTRACT FOR MANAGEMENT INFORMATION SYSTEM REQUIREMENTS STUDY AND CONCEPTUAL DESIGN FOR THE NATIONAL SCIENCE FOUNDATION (C681000 002); 4 MONTHS \$85,117

SULLIVAN, JOHNIE A; SYSTEM PROGRAMMING, TESTING, AND INTEGRATION FOR THE NSF MANAGEMENT INFORMATION SYSTEM (C681000 001*); 21 MONTHS \$100,000

FELLOWSHIP AND TRAINEESHIP AWARDS

Name and Field of Study of Individuals Offered National Science Foundation Fellowships by
State of Permanent Residence and Program, Fiscal Year 1972

ALABAMA

BRITT, JEANETTA M.,
Urban & Regional Planning
DOBBS, GARY H. III, Biology, General
DOUGLASS, CHARLES H. JR., Chemistry
HARDAGE, SYLVIA D., Anthropology &
Archeology
KEISTER, BRADLEY D., Physics
STANLEY, HAROLD W., Political Science†
TORBERT, ROY B., Physics
WILLIAMS, EDWIN S., Linguistics

ALASKA

PAGE, DON N., Physics

ARIZONA

CALOS, MICHELE P., Zoology†
COOK, MICHAEL R., Biochemistry†
DAVITT, GREGORY A., Psychology†
DUNFORD, CHRISTOPHER J., Biology, General
FLOWER, WILLIAM L., Engineering
FOLGER, DAVID B., Engineering†
GADWA, PETER T., Mathematics†
GILLMORE, WILLIAM A., Sociology†
GRANT, BARBARA D., Chemistry
MACDONOUGH, LINDA A., Biology, General†
MARK, LAWRENCE J., Mathematics
MCMILLAN, WILLIAM P., Engineering
MILLER, HAROLD L., JR., Psychology
NELSON, ERIC V., Engineering†
NEWTON, JAMES W., Psychology†
RUBIN, ROBERT A., Biochemistry†
SCHWENT, VINCENT L., Physiology &
WENTINK, LINDA M., Anthropology &
Archeology

ARKANSAS

CHAMBERLIN, CHARLESE, Engineering
ENGLER, CHARLES R., Mathematics†
GANNAWAY, JOHN R., Mathematics
MAGERS, PAMELA C., Anthropology &
Archeology
OWENS, JAMES W., Biology, General
ROSEBERRY, WILLIAM C., Anthropology
& Archeology†
THOMASSON, WILLIAM M., Engineering

CALIFORNIA

ABAD, VICTOR J., Mathematics
ADAMS, GEORGE G., Engineering
ADAMS, JOHN Q., Mathematics
ANTOGNINI, JAMES A., Psychology
ASH, AVNER D., Mathematics†
ASMUSSEN, MARJORIE A., Mathematics
AUDESIRK, GERALD J., Physiology
BAILEY, STEPHEN F., Zoology†
BENDOR, JONATHAN B., Political Science†
BERSHEIN, WILLIAM J., Chemistry
BETHUNE, DONALD S., Physics
BLACKADAR, BRUCE E., Mathematics

BOYLE, EDWARD A., Earth Sciences
BRADFORD, JOHNA, Sociology
BREITER, DENNIS N., Physics
BROWN, MARIAN V., Economics
BROWN, PENELOPE, Anthropology & Archaeology
BURNS, ELIZABETH K., Geography
BUTLER, JAMES P., Biophysics
CAMERON, ROBERT A., Biology, General
CAMMACK, DAVID A., Engineering
CARLSON, CHARLES W., Chemistry
CHAMBERS, ANNE V., Anthropology &
Archeology†
CHAI-LIN, STEPHEN J., Biology, General
CHAPMAN, RUSSELL L., Botany
CHU, STEVEN, Physics
CLARK, STEVEN C., Biochemistry†
CLARKE, STEVEN G., Biochemistry
COHEN, BRUCE I., Physics
CORDY, ROSS H., Anthropology &
Archeology†
DAMICO, WILLIAM A., Biochemistry†
DAY, LUCILLE L., Biology, General†
DAY, STEVEN M., Earth Sciences
DODSON, STEPHEN R., Linguistics†
DULLIEN, ROBERT, Engineering†
EARDLEY, DOUGLASS M., Physics
EDWARDS, THOMAS J., Engineering†
ENDLER, JOHN A., Genetics
ESTER, MICHAEL R., Anthropology &
Archeology
FARABAUGH, PHILIP J., Biochemistry†
FAUGHT, WILLIAM S., III, Mathematics
FIELD, ALEXANDER J., Economics
FISHER, DANIEL C., Earth Sciences
FLEISSNER, WILLIAM G., Mathematics
FLORA, LAURENCE P., Engineering†
FLYNN, MICHAEL A., Economics
FOLEY, TINA D., Anthropology &
Archeology†
FONTANA, ANDREA, Sociology†
FRANK, PAUL D., Mathematics
FUTIA, CARLA A., Economics
GATES, NATHAN C., Engineering†
GAY, RICHARD L., Engineering†
GECKELER, WILLIAM R., Microbiology†
GEE, KATHLEEN T., Physics
GERSTEIN, DEAN R., Sociology
GREENBERG, SANFORD N., Political Science
GROSS, SHEILA J., Genetics†
HAAS, DAVID F., Sociology
HAGER, WILLIAM W., Mathematics
HAHN, PETER F., Mathematics
HAMILL, WILLIAM D., Jr., Chemistry
HANSEN, CHRISTOPHER B., Microbiology
HARMELL, CATHY A., Linguistics†
HARRIS, ANDREW L., Medical Sciences†
HARWOOD, DANIEL, Psychology
HAWS, STEVEN W., Economics†
HAYCOCK, JOHN W., Medical Sciences†
HEDDERSON, JOHN J., Sociology
HENDRICKS, JOHNS, Engineering†
HILL, JESSE K., Astronomy
HINNEBUSCH, THOMAS J., Linguistics

HIRVELA, ELSA R., Anthropology &
Archeology†
HOCHFELD, PAUL R., Engineering†
HOFFMAN, MEREDITH B., Linguistics†
HOLBROOK, SALLY J., Biology, General
HONG, BENJAMIN, Mathematics†
HOPKINS, MARK M., Economics
HYMOWECH, MARVIN, Mathematics
JACOB, JOHN P., Mathematics
JACOBS, RODNEY L., Economics
JARDIN, STEPHEN C., Engineering
JOHNSON, DOUGLASS K., Social Science, Other†
JOHNSON, LESLIE K., Biology, General
JONES, ROBERT E., Biology, General†
JOURIS, WILLIAM, Anthropology &
Archeology
KAWATE, KEITH W., Engineering†
KISKIS, RONALD C., Chemistry
KLAR, KATHRYN A., Linguistics
KLINGNER, RICHARDE, Engineering†
KNIGHT, DOYLE D., Engineering
KOSSLYN, STEPHEN M., Psychology
KRANTZ, STEVEN G., Mathematics
KREMER, MARY G., Psychology
KRONENFELD, RICHARD L., Physics
KUNG, LYDIA, Anthropology &
Archeology†
LAGARIAS, JEFFREY C., Mathematics
LAMBERT, STEVEN J., Earth Sciences
LANDIS, STORY C., Biology, General
LAPIDUS, DEBORAH R., Psychology†
LAUER, GAIL D., Genetics†
LAZEAR, EDWARD P., Economics
LERWICK, STUART N., Mathematics
LIEDER, CHARLES A., Chemistry
LINDER, JEAN C., Biology, General†
LIST, STEPHEN E., Mathematics†
LORD, CATHERINE E., Psychology
MARLIAVE, JEFFREY B., Biology, General
MASOVER, GERALD K., Microbiology
MCBREARY, JOHN B., Sociology
MC CREERY, RICHARD L., Chemistry
MCDERMOTT, CHRISTINE E., Biology, General†
MENDEL, META C., Political Science†
MENKIN, ELIZABETH S., Biology, General†
MENUZ, REX L., Anthropology &
Archeology†
MEYERS, MARGARET B., Social Science, Other
MINTZ, ROBERT E., Sociology
MORRIS, LYLE E., Engineering†
MRAW, STEPHEN C., Chemistry
NEELY, HELEN H., Psychology†
NOVOSELLER, DANIEL E., Physics
OBERLAENDER, JACQUELINE, Chemistry†
OKRAND, MARC, Linguistics
PALMER, STEPHEN E., Psychology
PARKS, RAYMOND G., Engineering†
PATTERSON, CHARLOTTE J., Psychology†
PEARSON, PETER K., Chemistry
PEARSON, ROBERT B., III, Physics
PERCIVAL, FRANK W., Botany
PETERSON, BRAIN L., Mathematics†
PETERSON, JAMES L., Mathematics

NOTE: All awards are tenable in 1972-1973. Three-year awards are indicated by "†"; the second and third years are tenable during any 2 of the following 4 years, subject to the students' satisfactory progress and the availability of funds. Two-year awards are indicated by "††". All others are 1-year awards.

PETTI, RICHARD J., Mathematics
 PHILLIPS, DAVID W., Biology, General
 POWERS, THOMAS W., Chemistry
 PUTCHA, MOHAN S., Mathematics
 RAFFERTY, JAMES M., Psychology
 RANDLE, JO A., Agriculture†
 REITMAN, LARRY N., Chemistry
 RICHARDSON, JEFFREY H., Chemistry
 RICHMAN, JAMES G., Earth Sciences
 RICK, JOHN W., Anthropology & Archaeology†
 ROBERTS, JOHNS S., Zoology
 ROGOFF, BARBARA L., Psychology†
 ROSKO, LANA, History & Philosophy of Science†
 ROYLANCE, LYNN M., Engineering†
 RYAN, JOSEPH S., JR., Economics†
 SCHEDVIN, JOHN C., Earth Sciences†
 SCHLEHUBER, CAMERON J., Life Sciences, Other†
 SCHMIDT, MARIETTE C., Microbiology†
 SCHMITT, PEGGY H., Biology, General
 SELCESTAD, JOHN G., Chemistry
 SHELBY, ROBERT M., Chemistry†
 SMOTKIN, DAVID, Biochemistry†
 SPIEGEL, JOHN W., Economics
 SPOHR, KATHRYN T., Psychology
 STEIGER, RICHARD J., Mathematics†
 STEINBERG, ROBERT A., Biochemistry
 STOCKING, JAMES H., Engineering
 SUTER, GLENN W., II, Biology, General
 SWANSON, RICHARD M., Engineering
 SYMES, WILLIAM W., Mathematics
 TARDIFF, TIMOTHY J., Urban & Regional Planning†
 THROOP, ALAN L., Engineering
 TIEMAN, SUZANNA H., Psychology
 TIMKOVICH, RUSSELL, Chemistry
 TOPIC, JOHN R., Anthropology & Archaeology
 TURNER, MICHAELS, Physics
 UNGERER, JUDY A., Psychology†
 VILLEGAS, DANIEL J., Urban and Regional Planning†
 VLECK, DAVID J., Biology, General†
 WAGNER, JUDITH M., Biology, General†
 WARD, MICHAEL P., Economics
 WARD, THOMAS E., Biochemistry
 WEINTRAUB, JEFF A., Sociology
 WHITE, GREGORY L., Psychology†
 WHITMORE, CHARLES S., Political Science
 WILHELM, NEIL C., Engineering
 WOLK, BRUCE A., Physics
 YEAGER, DANNY L., Chemistry
 YOSHIYAMA, RONALD M., Biology, General†
 YOUNT, JAMES C., Earth Sciences
 ZAITLIN, MARK P., Physics
 ZUCKERMAN, GREGG J., Mathematics
 ZVESPER, JOHN R., Political Science

COLORADO

ALLDREDGE, ALICE L., Biology, General
 ALLRED, DAVID D., Chemistry
 BAYNTON, CHARLES G., Mathematics†
 BENDER, WELCOME W., Biology, General
 CORRUCINI, ROBERT S., Anthropology & Archaeology
 EASON, ERNEST D., Engineering
 FERGUSON, JILL, Biology, General†
 FOWLER, MARY J., Psychology
 FOX, DAVID L., Physics†
 HAGEDORN, ALFRED A., III, Chemistry
 HELD, ROYER L., Urban & Regional Planning†
 HULL, BARBARA E., Biology, General†
 JOHNSON, RICHARD W., Chemistry†
 MURCRAE, FRANK J., Physics†
 POSNANSKY, CARLA J., Psychology
 ROCKS, JOHN O., Atmospheric Sciences†
 ROCK, CHARLES O., Zoology
 SHERIDAN, ROBERT E., Physiology†

CONNECTICUT

BONVILLIAN, JOHN D., Psychology
 CARTER, JOSEPH G., Earth Sciences
 CONVERSE, STEVEN L., Mathematics
 DINELLO, ROBERT K., Biochemistry
 EIFLER, DEBORAH J., Sociology
 ENTMAN, ROBERT M., Political Science
 FAIRBANKS, LYNN A., Psychology
 FERREE, G. DONALD, JR., Political Science†
 FERRERO, BRUCE E., Mathematics
 GREIF, JEFFREY M., Physics
 HARPER, JAMES M., Physics
 HETH, CHESTER D., Psychology
 HEUMANN, MILTON, Political Science
 HOLBROOK, BRUCE E., Anthropology & Archaeology
 KATZ, RICHARDS, Political Science
 LACY, JOHN H., Physics†
 LAW, JAMES S., Engineering
 LEVIN, RICHARD C., Economics
 MILLER, ALAN K., Engineering†
 MORTON, MARILYN J., Political Science
 MOSTOW, MARK A., Mathematics
 MULFLUR, JAMES H., Mathematics
 NAGY, WILLIAM E., Linguistics
 PROBER, DANIEL E., Physics
 PUKKILA, PATRICIA J., Biology, General
 RAFSKY, LAWRENCE C., Mathematics
 RESCORLA, LESLIE A., Psychology
 ROGERS, WILLIAM H., III, Mathematics†
 ROSEN, KENNETH T., Economics
 ROTHE, PAUL H., Engineering
 SIBLEY, DAVID S., Economics
 VENTURINI, EUGENE L., Engineering
 VERDERY, KATHERINE M., Anthropology & Archaeology
 WIESE, ROY F., Economics

DELAWARE

BECHER, DAVID Z., Chemistry†
 DAVIS, MICHAEL W., Mathematics
 DUVEKOT, CLAIRE E., Linguistics
 MARTIN, RICHARD C., History & Philosophy of Science
 SHIMSHICK, EDWARD J., Chemistry
 WOODBURY, STEVEN R., Urban & Regional Planning

DISTRICT OF COLUMBIA

CHAMBERS, FRANK W., Physics
 CHAMBERS, WILLIAM W., Engineering
 MARCUSS, ROSEMARY D., Economics
 MCCLELLAND, JAMES L., Psychology
 MEYER, STEPHEN A., III, Economics
 PELCOVITS, MICHAEL D., Economics
 RASTETTER, WILLIAM H., Chemistry†
 ROGERS, SHELLEY H., Physics

FLORIDA

ADELMAN, LEONARD, Psychology
 APRILETTI, JAMES W., Biochemistry
 BITTNER, MICHAEL L., Genetics†
 CHALKER, BRUCE E., Biology, General
 COX, DAVID A., Mathematics
 DAVIS, SHIRLEY D., Psychology
 ELKIN, ROYS., History & Philosophy of Science
 FISCHER, ROBERT A., Mathematics
 FRIDOVICH, MARK A., Psychology
 GANCARZ, ALEXANDER J., JR., Earth Sciences
 GRAESSER, ARTHUR C., Psychology†
 HANDEL, MICHAEL, Mathematics
 HANNA, CHARLES C., Mathematics
 HAWTHORNE, LARRY M., Engineering
 HELFMAN, PATRICIA M., Anthropology & Archaeology†

HILL, DENNY E., Sociology
 JAMISON, ROBERT E., II, Mathematics
 MASKIN, ERIC S., Economics†
 MATTHEWS, DAVID E., Biochemistry†
 MAY, MICHAEL L., Biology, General
 MCCARTHY, MICHELLE B., Biochemistry†
 MCDIARMID, MERCEDES F., Zoology
 MOODY, WILLIAM J., JR., Physiology†
 NASH, LORIB., Biology, General†
 PLUMMER, ORLAY E., Anthropology & Archaeology
 RODRIGUEZ, JOSE M., Physics†
 ROSE, BRUCE L., Mathematics
 SAUTHOFF, NED R., Physics
 SCHRAMM, KATHERINE J., Economics
 SCHUDDY, CARY B., Atmospheric Sciences†
 SHEFFIELD, JOHN S., Mathematics†
 SOUTHWORTH, FINIS H., Engineering†
 SPIEGEL, KATHLEEN W., Biology, General†
 STUCKWISCH, DAVID C., Earth Sciences†
 THRESHER, RONALD E., Zoology
 WEISBARD, ALAN J., Economics†
 WESCOURT, KEITH T., Psychology†
 WESTON, ROBERT P., Engineering†
 WHITE, SUSAN C., Zoology

GEORGIA

ACREE, ALLEN T., JR., Mathematics†
 BAUGHUM, STEVEN L., Chemistry†
 Beckmann, WILLIAM H., Mathematics†
 BELL, GEORGE R., Biochemistry
 BERNER, NANCY H., Microbiology
 COLLINS, ROBERT L., Psychology
 DICKERSON, FRANK M., Economics
 FLOYD, HOWARD C., Physics
 GOLDSTEIN, SHELDON, Physics
 HARDEGREE, GARY M., History & Philosophy of Science†
 HARRELL, EVANS M., II, Physics†
 KING, ROLAND E., Linguistics
 MAYS, PAMELA V., Psychology
 MCLATCHEY, JAMES N., Engineering
 PENROD, RUSSELL L., Psychology
 PETRIDES, JULIA T., Mathematics
 RITTER, LINDA B., Biochemistry
 SIKES, ELLIS D., JR., Mathematics†
 STENCER, ALLEN L., Mathematics†
 TUGGLE, ROY S., III, Astronomy†
 WADE, JACK B., Biology, General

HAWAII

BROWN, WILLIAM Y., Zoology
 LEIS, JEFFREY M., Biology, General†
 MINAMI, SHARONA, Biology, General†
 MOTT, ELWOOD K., JR., Linguistics
 NISHIHARA, HERBERT K., Mathematics†
 SWITZER, MARILYN F., Zoology
 VITOUSEK, PETER M., Biology, General†

IDAHO

CRAPO, NORMAN L., Botany
 DEMEYER, ARLEN A., Political Science
 FORD, LAWRENCE H., Physics
 LAMBERT, DONALD H., Anthropology & Archaeology
 MCMURRAY, MARTHA J., Sociology
 SCHULTZ, EMILY A., Anthropology & Archaeology
 SMITH, CRAIG C., Engineering
 THORNTON, ARLAND D., Sociology

ILLINOIS

ANDERSON, DANIEL D., Mathematics
 ASHLEY, RICHARD A., Biochemistry
 BECKER, PAUL K., Psychology

BENSON, HAROLD P., Mathematics
 BLOOM, RUTH W., Genetics
 BONNEY, CHARLES A., Sociology
 BROWN, JOANNA L., Anthropology & Archeology
 BURSTEIN, PHILIP L., Economics
 CACHEL, SUSAN M., Anthropology & Archeology
 CARHART, STEVENC., Engineering
 CHEVALIER, ROGER A., Astronomy
 CHRISTIANSON, MICHAEL L., Genetics
 CLANCY, MICHAEL J., Mathematics
 CRAIN, LAWRENCE A., Engineering
 CRAY, DAVID, Sociology
 DELLUTRI, DALE A., Mathematics
 DIEHL, RANDY L., Psychology
 DIETERICH, DAVID A., Chemistry
 DOERING, JEFFREY L., Microbiology
 DOLECKI, GREGORY J., Genetics
 DUNHAM, RANDALL B., Psychology
 ELBAUM, BERNARD L., Economics
 EPSTEIN, SUZANNE L., Biochemistry
 FARKAS, DANIEL R., Mathematics
 FARRAR, JAMES M., Chemistry
 FAY, ROBERT E., III, Mathematics
 FELDMAN, RONALD E., Linguistics
 FIDDLER, MORRIS B., Genetics
 FIEDOROWICZ, ZBIGNIEW, Mathematics
 FINKEL, RAPHAEL A., Mathematics
 FRIED, DAVID S., Mathematics
 GARDNER, ROY J., Economics
 GOLDMAN, BARBARA M., Biology, General
 GOLDSTEIN, E. ALEXANDER, Economics
 GOODMAN, COREY S., Biology, General
 HEJHAL, DENNIS A., Mathematics
 HENKIN, BRUCE M., Chemistry
 HERINK, CURTIS D., Mathematics
 HIGGINS, BRONN M., Economics
 HINCKLEY, NANCY M., Biology, General
 HORWITZ, RICHARD J., Biology, General
 HOUART, GAIL L., Anthropology & Archeology
 JAFFE, DAVID M., Psychology
 JAMIESON, MICHAEL W., Engineering
 JOHNSON, RICHARD H., Engineering
 KAAR, DAVID R., Engineering
 KASTEN, RICHARD A., Economics
 KEENAN, JANICE M., Psychology
 KOENIG, WALTER D., Biology, General
 KOLB, JOHN R., Chemistry
 KRAUS, RICHARD C., Political Science
 KRONICK, MEL N., Physics
 LANCASTER, DAVID R., Engineering
 LARCOMBE, ELSA M., Biology, General
 LAVIN, MARK A., Mathematics
 LENTZ, BERNARD F., Economics
 LEONE, STEPHEN R., Chemistry
 LOWRY, BURT L., Biophysics
 LUECKING, DANIEL H., Mathematics
 MANELIS, LEON M., Psychology
 MCKEE, MICHAEL J., Economics
 MERKEL, ROBERT R., Chemistry
 MITCHELL, ERIK K., Botany
 MOCELLA, MICHAEL T., Chemistry
 MOJE, STEVEN W., Chemistry
 MOLNAR, DAVID A., Economics
 NOSEK, RICHARD D., Mathematics
 OBRYAN, NELSON B., JR., Chemistry
 OHLENDORF, DOUGLASH., Biochemistry
 OKEEFE, KELLY R., Chemistry
 ÖSTLUND, SUZANNE E., Biology, General
 PARKER, NORMAN W., Physics
 PIGAGE, LEE C., Earth Sciences
 RAWLINS, RICHARD G., Anthropology & Archeology
 REDDY, BERNARD J., Economics
 REINER, DAVID L., Mathematics
 ROSEN, HARVEY S., Economics

SANDERSON, RICHARD B., Engineering
 SCHAAR, RICHARD J., Mathematics
 SCHENNUM, WAYNE E., Biology, General
 SCHWAB, GARY M., Engineering
 SCRANTON, MARY J., Earth Sciences
 SHERMAN, PAUL W., Biology, General
 SIVERTSEN, BARBARA J., Anthropology & Archeology
 SMITH, JAMES L., Economics
 SPETH, DAVID R., Biochemistry
 SPINKA, NANCY J., Engineering
 SPONHOLTZ, DENNIS K., Biochemistry
 STELTE, DAVID JOHN, Engineering
 STEVENS, DUANE E., Physics
 STROMQUIST, WALTER R., Mathematics
 TAYLOR, FREDERICK R., Biochemistry
 THISSEN, DAVID M., Social Science, Other
 TIEMSTRA, JOHN P., Economics
 USAS, ALAN M., Engineering
 WEBER, MARY C., Sociology
 WILLIAMS, BRETT, Anthropology & Archeology
 ZAWADOWSKI, JOSEPH S., Anthropology & Archeology

INDIANA

ALTON, THOMAS H., Biology, General
 BELDING, WILLIAM R., Mathematics
 BERKHEISER, VAUGHN E., Agriculture
 BERNDT, THOMAS J., Psychology
 BUNES, Leonard A., Chemistry
 BURCHFIELD, ROBERT W., Chemistry
 BUSH, ROBERT L., Physics
 COHEN, RICHARDS., Engineering
 CONTI, RALPH S., Physics
 DAVIDSON, VAUGHN O., Physics
 FIELD, MICHAEL E., Engineering
 FLICK, PARKE K., Biochemistry
 GRAHAM, STEPHAN A., Earth Sciences
 GRAY, JOA, Economics
 HAWK, ELIZABETH J., Psychology
 HERD DARRELL G., Earth Sciences
 JERISON, MICHAEL, Economics
 MAJDA, ANDREW J., Mathematics
 NARDI, JAMES B., Biology, General
 PALM, ANDREW C., Mathematics
 PAYNE, PHILIP W., Chemistry
 PETERS, CYNTHIA A., Anthropology & Archeology
 PETRITES, VINCENT P., Urban & Regional Planning
 PILGRIM, PHILIP C., Mathematics
 RADER, CAROLINE S., Linguistics
 SIDEBOTTOM, PHILIP L., Engineering
 SPREEN, JAMES H., Engineering
 STOCKMEYER, LARRY J., Mathematics
 STUMPH, WILLIAM E., Biology, General
 TRANKLE, THOMAS L., Engineering
 TRIEZENBERG, DAVID M., Engineering
 TRUE, MICHAEL A., Astronomy
 WELLNITZ, WILLIAM R., Genetics
 WHITE, STEPHEN E., Mathematics
 WILLNER, STEVEN P., Astronomy
 WILSON, PATRICIA A., Biology, General
 WOLF, LESLIE R., Chemistry
 WOLYNES, PETER G., Chemistry

IOWA

ANDERSON, DAVID F., Mathematics
 BERBERICH, JOEL J., Physiology
 COLLINS, DAVID W., Physics
 FREY, TERYL K., Genetics
 GARRELS, JAMES I., Biology, General
 HEYER, CAROLYN B., Zoology
 HOOVER, KENNETH C., Engineering
 KINNEY, ROBERT J., Chemistry
 LAIRD, JO, Earth Sciences

LANDAU, CHARLES R., Mathematics
 PIETSCH, STEPHEN J., Engineering
 SOGIN, SUZANNE S., Psychology
 WORMHOUDT, JODA C., Chemistry

KANSAS

ARCHER, RICHARD L., Psychology
 BERNASEK, STEVEN L., Chemistry
 BOCK, PAUL L., Chemistry
 BOWMAN, MICHAEL K., Chemistry
 CHELIKOWSKY, JAMES R., Physics
 CURRIER, BARBARA S., Mathematics
 HIRLEMAN, EDWIN D., JR., Engineering
 JAKOWATZ, CHARLES V., JR., Engineering
 LAMB, DONALD Q., JR., Physics
 LUSK, MARY D., Psychology
 MEIER, CALVINE, Agriculture
 RINTOUL, DAVID A., Genetics
 SMITH, GARY L., Biology, General
 STUMP, DANIEL R., Physics
 THOMPSON, TYLER B., Chemistry
 TUNISON, MAFER E., Engineering
 WALL, LEONARD L., Anthropology & Archeology
 WELLS, MAX M., Mathematics
 WRIGHT, ERIK OLIN, Sociology

KENTUCKY

BAKER, NANCY L., Psychology
 BLAKEMAN, CRAWFORD H., JR., Anthropology & Archeology
 CASNELLIE, JOHN E., Biochemistry
 COMPTON, JOHN C., Chemistry
 CONNOR, DANE, Chemistry
 DINGLELINE, RAYMOND J., Biochemistry
 FINKE, LINDA R., Microbiology
 GOAD, LARRY E., Astronomy
 HEUMANN, JOHN M., Biology, General
 HINKEBEIN, THOMAS E., Engineering
 HOREN, JEFFREY H., Mathematics
 KUEBBING, DANIEL T., Biochemistry
 NATION, JAMES B., Mathematics
 ROSS, ALONZO H., Biochemistry
 SCOTT, SHERYL A., Psychology
 SMITH, FRANCES H., Biochemistry
 STONE, JOHN B., Engineering
 TARVIN, JEFFREY A., Physics
 TRENT, ROBERT D., Mathematics
 UNGER, EARL M., Economics
 VISCUSI, WILLIAM G., Social Science, Other
 WHEELER, STEPHEN F., Engineering

LOUISIANA

ARMSTRONG, ROBERT C., Engineering
 CAIRNS, STEPHEN D., Biology, General
 CASADABAN, MALCOLM J., Microbiology
 FLINT, ELIZABETH P., Botany
 HALPERIN, HENRY R., Physics
 HASENKAMPF, HERMAN C., Chemistry
 JOHN, MIRIAME, Engineering
 MARTIN, SUSAN E., Linguistics
 ONEILL, DANIEL E., Economics
 PRICE, JAMES P., Sociology
 REYMOND, MICHAEL J., Earth Sciences
 SEBASTIANCIRENEM, Psychology
 SHEAFOR, STEPHEN J., Engineering
 SHUMAN, MALCOLM K., Anthropology & Archeology
 SIEBERT, ARTHUR E., JR., Biology, General
 TOLBERT, LAREN M., Chemistry

MAINE

BRIGGS, LUCY T., Linguistics
 MCEVOY, PETER B., Biology, General
 MOBERG, WILLIAM K., Chemistry
 ROHRBAUGH, JOANNA B., Psychology

MARYLAND

ADERHOLD, JAMES L., JR., Engineering
 AYDINIAN, GENE A., Earth Sciences†
 BREEDON, JANICE E., Chemistry†
 BRENNER, ALAN, Chemistry
 CARTER, DAVID P., Microbiology
 CASWELL, WILLIAM E., Physics
 COOLAHAN, JAMES E., JR., Engineering
 CRAWFORD, VINCENT P., Economics†
 DAVIS, FRANCES M., Biology, General
 EPPEY, KENNETH R., Physics
 FEFFERMAN, ROBERT A., Mathematics†
 FEINSILVER, PHILIP J., Mathematics
 GLASS, STEPHEN N., Mathematics
 HANSON, MAUREEN R., Botany
 HICKEY, JOHN W., Life Sciences, Other†
 KAHLER, MILESE, International Relations†
 KLEIMAN, MARK A., Social Science, Other†
 KORNHAUSER, ALAN A., Engineering†
 LIPSETT, ROGER, Mathematics
 MAIORANA, JAMES A., Mathematics
 MEAD, BARBARA E., Anthropology & Archeology
 MEYERSON, MARK D., Mathematics
 MYERS, CARL F., JR., Engineering†
 OLIVER, ROBERT A., Mathematics
 PAULSON, JAMES R., Biochemistry†
 PURKS, STEPHEN R., Engineering†
 ROIG, RANDY A., Physics
 SALWIN, ARTHUR E., Chemistry
 SHAPIRO, HENRY D., Mathematics†
 SHAVELL, STEVEN M., Economics
 SOLLNER, BARBARA D., Biology, General
 TAYLOR, RUSSELL H., Mathematics
 VANHOUTEN, ROBERT J., Engineering
 WAITE, EMILY M., Sociology
 WEISMAN, ROBERT B., Chemistry
 WILLIAMS, LOUISE A., Anthropology & Archeology

MASSACHUSETTS

ANGELO, RAYMOND L., Physics
 BERKOWITZ, HARRIET F., Sociology
 BERMAN, JEFFREY S., Psychology†
 BIENIEK, RONALD J., Physics
 BLUMBERG, PETER M., Biochemistry
 BOYLE, BRIANE E., Engineering
 BRUINS, DOUGLAS E., Chemistry
 CARLTON, DENNIS W., Economics
 CHAMBERLAIN, GARY E., Economics
 CLAPP, CHARLES H., Chemistry
 COHEN, RICHARD J., Physiology
 DOHERTY, JAMES B., Chemistry†
 DOMNITZ, ROBERT H., Engineering
 DUNN, ERICA H., Zoology
 EARNSHAW, WILLIAM C., Microbiology†
 EKMAN, KENNETH E., Mathematics
 FELDMAN, ROBERT A., Anthropology & Archeology†
 FELDMAN, THEODORE S., Mathematics
 FOOR, FORREST, JR., Biochemistry
 FRANK, ROBERT E., Chemistry
 FRIEDMAN, SHELDON I., Economics
 GORDON, ROGER H., Economics†
 CORIN, RALPHE E., Mathematics
 GRABOWSKI, GWEN J., Biology, General†
 GREESMAN, MICHAEL A., Engineering†
 GROSSMAN, JEROLD W., Mathematics
 HADLEY, KATE H., Earth Sciences†
 HAGEN, DAVID C., Biochemistry
 HEALY, PAUL F., Anthropology & Archeology
 HENDRICKS, THOMAS M., JR., Engineering
 HOLMES, DEBORAH L., Psychology
 HOROWITZ, LARRY L., Engineering†
 JENSEN, HARBO P., Chemistry

JORDAN, KENNETH D., Chemistry
 KATES, JAMES M., Engineering
 KEETON, WILLIAM R., Economics†
 KENNEDY, MICHAEL P., Economics
 KIRSHNER, ROBERT P., Astronomy
 KOIVUMAKI, JUDITH H., Psychology†
 LEAMAN, KEVIN D., Earth Sciences
 LUMBERT, ROBERT B., Mathematics
 MANSKI, CHARLES F., Economics
 MATTEO, CHARLES C., Microbiology
 MCCLELLAND, KENT A., Sociology
 MCGAFFIGAN, EDWARD, JR., Physics
 MEGILL, NORMAND, Engineering†
 MENAGHAN, ELIZABETH G., Social Science, Other†
 MERVIS, CAROLYN B., Psychology
 MITTERMEIER, RUSSELL A., Anthropology & Archeology†
 MOSCO, VINCENT C., Sociology
 NOWAKOWSKI, RICHARD S., Biology, General†
 OSPOVAT, DOV, History & Philosophy of Science
 PARK, KATHERINE S., History & Philosophy of Science†
 PATT, STEVEN L., Chemistry
 PEASE, LILA G., Biophysics
 PENALOSA, JAVIER, Botany
 PICARDI, SHIRLEY I., Chemistry
 PREMIERANI, WILLIAM J., Engineering
 PROSNITZ, DONALD, Physics
 RADWANSKI, ELAINE R., Biology, General†
 RENNER, CARL A., Chemistry
 ROSENSTEIN, MARVIN, Atmospheric Sciences
 RUBIN, GERALD M., Biology, General
 RUTH, GREGORY R., Engineering
 SHROCK, ROBERT E., Physics
 SILVER, BRUCE R., Physics
 SNIDER, BARRY B., Chemistry
 SPECHLER, DINA R., Political Science
 STEELE, ROBERT S., Psychology
 VETTERLING, WILLIAM T., Physics
 WALKER, WILLIAM W., JR., Engineering
 WASHINGTON, LAWRENCE C., Mathematics
 WEINBERG, MARC S., Engineering
 WEINSTEIN, MILTON C., Social Science, Other
 WENTWORTH, THOMAS R., Biology, General
 WIESEL, WILLIAM E., JR., Astronomy
 WILLIAMSON, PATRICK L., Biochemistry
 WISHENUSKY, JOHN A., Engineering†

MICHIGAN

ALEXANDER, RANDELL C., Psychology†
 BATES, THOMAS R., JR., Engineering
 BENNINGER, LARRY K., Earth Sciences
 BISHOP, GEORGE D., Psychology
 BIXLER, DAVID C., Engineering
 BODWIN, GEOFFREY T., Physics†
 BRUBAKER, LINDA B., Biology, General
 CANJAR, R. MICHAEL, Engineering†
 CASWELL, HERBERT H., Biology, General
 COLESTOCK, PATRICK L., Engineering
 COOTER, ROBERT D., Economics
 COSBY, MARK R., Engineering†
 CRANDALL, RODERICK P., Psychology†
 CROUGH, SHERMAN T., Earth Sciences†
 ELERT, MARK L., Chemistry†
 FEDER, ROBERT E., Psychology†
 FELSKE, JAMES D., Engineering†
 FISHER, CAROLINE M., Psychology†
 GARAVAGLIA, STEVEN C., Mathematics†
 GAY, DAVID M., Mathematics†
 GLADYSZ, JOHN A., Chemistry
 GREENLEE, THOMAS R., Physics
 GROVES, ROBERT M., Sociology
 HASSELBACH, CLARENCE G., Physics
 HAYES-ROTH, BARBARA, Psychology†
 HILLER, CARL C., Engineering
 JASON, MARK E., Chemistry

JONGEWARD, ROBERT H., JR., Psychology
 KOZIKOWSKI, ALAN P., Chemistry
 LAITNER, JOHN P., Economics
 LANGDON, DONALD R., Engineering†
 LEVIS, RICHARD A., Psychology†
 LUTON, SUSAN B., Anthropology & Archeology
 MCCARTHY, ROGER L., Engineering†
 MCLAUGHLIN, DAVID F., Engineering†
 MILLER, JOHN L., Engineering†
 MONTAGUE, MICHAEL J., Botany
 OPSAHL, CHARLES A., Psychology
 PARRY, WALTER R., Mathematics†
 PATZER, JOHN F., II, Engineering
 PETTENGILL, JOHN S., Economics
 PRZYBYLSKI, THOMAS M., Engineering
 RADIN, LON B., Mathematics
 ROSEN, KENNETH H., Mathematics†
 SCHONBECK, NIELS D., Biochemistry
 SCHROEDER, FRIEDHELM, Biochemistry
 SHAPIRO, SUSAN P., Sociology†
 SMETANKA, JOHN A., Psychology
 SMITH, CATHERINE B., Sociology
 STARK, BENJAMIN C., Biology, General
 STRIKWERDA, JOHN C., Mathematics†
 WARD, JAMES F., Political Science
 WELLER, STEPHEN G., Botany
 WILSON, DOUGLAS G., Engineering†
 WISE, DAVID H., Biology, General
 YOCUM, ROBERT R., Biology, General
 ZUSSMAN, JOHN U., Psychology†

MINNESOTA

ANDERSON, RICHARD G., Economics†
 ANDERSON, ROBERT B., Economics
 ANDERSON, SUSAN E., Sociology
 AUFDERHEIDE, KARL J., Biology, General
 BUSKE, GARY R., Chemistry
 CAULK, DAVID A., Engineering†
 COOK, CAROLYN W., Political Science
 DIETZ, PETER W., Engineering†
 DUNN, JOHN E., III, Engineering
 EIDE, STEVEN A., Engineering†
 FRANK, KATHLEEN M., Psychology†
 GRAHAM, ALAN K., Engineering†
 HOGLE, JAMES M., Biochemistry†
 JOHNSON, JACK W., Chemistry†
 LAMBERTON, CHARLES E., Economics
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 GREEN, KATHERINE A., Biology, General
 HAMPTON, CHARLES E., Mathematics
 HARDIN, DAVID D., Engineering†
 HAWKINS, ERIN R., Biochemistry
 HOCH, CHARLES G., Chemistry†
 HOLEYWELL, ROGER C., Earth Sciences
 HUFF, JOEL R., Chemistry
 IRBY, LYNN R., Biology, General
 JOHNSTON, WILLIAM M., Political Science†
 JONES, STEPHEN K., Engineering
 KELLEY, CLYDE E., Engineering†
 KLAGER, KIM, Earth Sciences
 KOMKOV, STEPHANIE F., Social Sciences, Other†
 LAIRD, BONNIE E., Mathematicst
 LEBOWITZ, BRIAN E., Economicst
 LEVY, DAVID L., Engineering†
 LEWIS, ALBERT C., History & Philosophy of Science
 LYNCH, PAUL M., Engineering†
 MABE, ROBERT D., Anthropology & Archeology
 MALEY, COLLEEN P., Anthropology & Archeology
 MARCUS, STEVEN I., Engineering
 MASTENBROOK, JOHN L., Psychology†
 MCCLELLAN, JAMES H., Engineering
 MCGARITY, CATHLEEN O., Biochemistryst
 MCKEY, DOYLE B., Biology, General
 MCWHIRTER, DARIEN A., Political Science

MILLER, CONNIE H., Genetics†
 MOORE, LINDA R., Biology, General
 OIESEN, JAMES F., Economics
 PAUKERT, JAMES L., Biochemistry
 PITTS, JON T., Mathematics
 PLOG, STEPHEN E., Anthropology & Archaeology
 PUSTEJOVSKY, MICHAEL A., Engineering
 RISKIND, JOHN H., Psychology
 SCHIEBOUT, JUDITH A., Earth Sciences
 SMITH, CHARLES A., Chemistry†
 STREIT, GERALD E., Chemistry
 USSERY, CHRISTINE T., Microbiology†
 VANDELL, KERRY D., Urban & Regional Planning
 WALDROP, AL M., Economics†
 WALKER, ROBERT B., Chemistry
 WELSH, MICHAEL J., Zoology
 WILLIAMS, LAWRENCE R., Mathematics†
 WISE, JAMES D., JR., Engineering
 WOMACK, ROBERT L., Political Science
 YINGLING, CHARLES D., Physiology
 YOUNG, RYLAND F., Biochemistry

UTAH

AMES, WALTER L., Anthropology & Archeology
 BARRETT, WAYNE W., Mathematics
 DESPAIN, KEITH H., Physics
 GALLOWAY, RODNEY G., Engineering
 GOODFELLOW, ROBYN J., Chemistry†
 GREENE, MARJORIE, Mathematics
 JONES, ROGER J., Biology, General
 LAMB, ANNE M., Psychology†
 MORRISON, KENT E., Mathematics
 RUSHFORTH, EVERETT S., Anthropology & Archeology†
 RUSSELL, CHRISTOPHER P., Engineering
 SMITH, KATHLEEN T., Anthropology & Archaeology
 STACEY, DENNIS W., Biochemistry
 SUNDSTROM, ERIC D., Psychology

VERMONT

DOUGLAS, DOROTHY A., Botany†
 LUBIN, ADAM, Mathematics†
 STOWE, LAWRENCE G., Biology, General†
 TYLER, ROBERT G., Engineering

VIRGINIA

BAUSUM, DAVID R., Mathematics
 BRENNER, DOUGLAS M., Chemistry
 BROWN, TERENCE L., Physics
 BUTLER, EDMUND J., Mathematics
 CARROLL, WALTER F., Sociology†
 COFFMAN, NANCY R., Chemistry†
 COLLINS, FRANCIS S., Chemistry
 COX, JANIE S., Anthropology & Archeology
 CROMARTIE, THOMAS H., Chemistry
 DANIEL, SHERYL B., Anthropology & Archeology†
 EAGAR, THOMAS W., Metallurgy†
 JOHNSTON, JAMES C., III, Psychology
 KINGSTON, GEORGE C., Engineering

KOBURGER, CHARLES W., III, Engineering†
 LARSEN, RICHARD A., Chemistry
 LINDSEY, ANNE H., Anthropology & Archeology†
 LYSY, DUSAN G., Physics
 MCDERMOTT, DREW V., Mathematics†
 MONK, LEONARD G., Mathematics
 OPIE, THOMAS R., Chemistry
 SASSAMAN, CLAY A., Zoology
 SHOSTAK, ROBERT E., Mathematics
 SINGER, NICHOLAS C., Mathematics
 UHLANER, CAROLE J., Mathematics
 WANTZELIUS, PAUL O., Engineering
 WARREN, ROBERT B., Mathematics†
 WEBB, STEPHEN C., Engineering
 WIKSWO, JOHN P., JR., Physics
 WILKINSON, WILLIAM C., Psychology
 WILLETT, JOHN C., Atmospheric Sciences
 WRIGHT, EDWARD L., Astronomy

WASHINGTON

ACHEN, CHRISTOPHER H., Political Science
 ADAMS, RUSSEL M., Psychology
 ADOLPHSON, ALAN C., Mathematics
 BAHLER, LAWRENCE G., Engineering†
 BORROZ, WILLIAM T., Engineering
 BURKE, WYLLIE G., Genetics
 COKELET, EDWARD D., Earth Sciences
 CUNNINGHAM, CHRISTOPHER, Astronomy
 DEMARTINI, EDWARD E., Zoology
 FENNER, DOUGLAS H., Psychology
 GANDERS, FRED R., Botany
 GREENING, TIMOTHY S., Economics†
 HECHT, JULIA A., Anthropology & Archeology
 HEGGEN, PAMELA J., Anthropology & Archeology
 KAMMEYER, PETER C., Mathematics
 KAUTZ, RICHARD L., Engineering
 KEARL, MICHAEL C., Sociology
 KIMBALL-MARCH, KATHRYN, Anthropology & Archeology†
 KIMERLING, ARTHUR J., Geography†
 KOTTWITZ, ROBERT E., Mathematics†
 LONG, PHILIP E., Earth Sciences
 MAJORS, JOHN E., Biophysics
 MARSTON, PHILIP L., Physics
 MARTINIS, JOANNE, Genetics
 MESSER, ROBERT A., Mathematics
 PETERSON, BRUCE E., Geography†
 REITER, CAROL R., Anthropology & Archeology
 SENEAR, ALLEN W., Biochemistry
 THOMPSON, NORMAN L., Urban & Regional Planning
 VENTUR, PIERRE E., Anthropology & Archeology†
 WATSON, BRUCE A., Biochemistry
 WIERMAN, JOHN C., Mathematics

WEST VIRGINIA

BACHMANN, EDWARD B., Sociology
 BELLOTT, EMILE M., JR., Chemistry†

CANTLEY, LEWIS C., Chemistry
 CEPERLEY, DAVID M., Physics
 CHINAULT, ALAN C., Chemistry
 HANSEN, ROBERT T., Chemistry
 JUSTICE, PENNIFORD L., Genetics
 MCROBERTS, RICHARD D., Engineering†
 RISSLER, JANE F., Botany

WISCONSIN

BACLAWSKI, KENNETH P., Mathematics
 BORCHERT, STEVEN J., Chemistry†
 BROWN, REBECCA H., Mathematics
 BRUCE, KIM B., Mathematics
 DANNER, FREDERICK W., Psychology
 DORNFELD, WILLIAM H., Engineering†
 DUMESIC, JAMES A., Engineering
 DZIADOSZ, GREGORY M., Psychology†
 ELMERGREEN, BRUCE G., Astronomy
 EVERS, MARK, Sociology
 FINCH, DAVID V., Mathematics†
 HAGER, DOUGLAS F., Chemistry
 HAHN, BRIAN K., Chemistry
 HANSEN, EVERETT M., Botany
 JONES, GILBERT G., Chemistry
 KEPPEL, ROBERT A., Chemistry
 KRACHT, WILLIAM R., Chemistry
 LANDGREN, DALE A., Economics
 LANGSTEN, RAYMOND L., Sociology†
 MAYER, JEROME F., Engineering
 MEISSNER, JEFFREY R., Anthropology & Archeology
 MILLER, JOANNE, Sociology
 NILSON, LINDA B., Sociology
 NIMMER, RONALD P., Engineering
 NOWACK, JUDITH A., Anthropology & Archeology
 PALMER, DAVID W., Physics
 PEET, ROBERT K., Biology, General
 PILARSKI, LINDA M., Biochemistry
 RADLOFF, DAVID L., Agriculture
 SARAZIN, CRAIG L., Physics†
 SCHLIPF, JOHN S., Mathematics
 SCOTT, BRIAN M., Mathematics
 SETTLE, RUSSELL F., Economics
 SEYMOUR, ROBERT W., Engineering
 SHAPIRO, DANIEL B., Mathematics
 SLATER, JOHN, Engineering†
 STARK, WILLIAM S., Psychology
 STILLER, ROBERT L., Engineering
 TAX, ROBERT E., Mathematics†
 WEGNER, WARREN W., Earth Sciences

WYOMING

CARPENTER, CHADWICK H., Engineering
 CARPENTER, GAIL A., Mathematics
 DONE, WILLIAM J., Engineering†
 WILLARD, ALVIN K., Chemistry†

Institutions Granted Traineeships and Chosen by Graduate Fellowship Awardees—Fiscal Year 1972

U.S. Institutions	Totals	Trainee Ships	Fellow- Ships	U.S. Institutions	Totals	Trainee Ships	Fellow- Ships
ALABAMA							
Auburn University	7	6	1	Northern Illinois University	2	2	0
University of Alabama	3	3	0	Northwestern University	38	26	12
ALASKA				Southern Illinois University	7	6	1
University of Alaska	1	1	0	University of Chicago	71	20	51
ARIZONA				University of Illinois/Urbana	67	44	23
Arizona State University	10	10	0	University of Illinois/Chicago Circle	4	1	3
University of Arizona	24	17	7	University of Illinois/Medical Cntr	1	1	0
ARKANSAS				INDIANA			
University of Arkansas	3	3	0	Indiana University	26	18	8
CALIFORNIA				Purdue University	51	39	12
California Institute of Tech.	64	24	40	University of Notre Dame	13	12	1
Claremont Graduate School	2	2	0	IOWA			
Loma Linda University	1	1	0	Iowa State University	19	17	2
Stanford University	182	44	138	University of Iowa	18	13	5
University of California/Berkeley	186	48	138	KANSAS			
University of California/Davis	20	13	7	Kansas State University	11	10	1
University of California/Irvine	8	5	3	University of Kansas	12	11	1
University of California/Los Angeles	39	27	12	KENTUCKY			
University of California/Riverside	12	9	3	University of Kentucky	8	8	0
University of California/San Diego	33	10	23	University of Louisville	5	3	2
University of California/San Francisco	3	1	2	LOUISIANA			
University of California/Santa Barbara	9	8	1	Louisiana Polytechnic Institute	1	1	0
University of California/Santa Cruz	3	1	2	Louisiana State University	12	10	2
University of the Pacific	1	1	0	Louisiana State Univ./Med Center	1	1	0
University of Santa Clara	2	1	1	Louisiana State Univ./New Orleans	1	1	0
University of Southern California	15	14	1	Loyola University	1	1	0
U.S. International University	1	1	0	Tulane University	13	8	5
COLORADO				MAINE			
Colorado School of Mines	2	2	0	University of Maine	2	2	0
Colorado State University	11	10	1	MARYLAND			
University of Colorado	31	18	13	Johns Hopkins University	25	15	10
University of Denver	2	2	0	University of Maryland	15	12	3
CONNECTICUT				MASSACHUSETTS			
University of Connecticut	12	10	2	Boston College	3	3	0
Wesleyan University	3	3	0	Boston University	6	5	1
Yale University	117	21	96	Brandeis University	10	7	3
DELAWARE				Clark University	3	3	0
University of Delaware	12	10	2	Harvard University	196	18	178
DISTRICT OF COLUMBIA				Lowell Tech. Institute	1	1	0
American University	2	2	0	Massachusetts Inst. of Technology	247	49	198
Catholic University	10	8	2	Northeastern University	8	8	0
George Washington University	6	6	0	Tufts University	5	5	0
Georgetown University	7	6	1	University of Massachusetts	11	10	1
Howard University	2	2	0	Woods Hole Oceanographic Inst.	1	0	1
FLORIDA				Worcester Polytechnic Inst.	1	1	0
Florida State University	15	13	2	MICHIGAN			
Nova University	1	1	0	Michigan State University	40	24	16
University of Florida	21	15	6	Michigan Technological University	3	3	0
University of Miami	12	6	6	University of Detroit	3	2	1
University of South Florida	2	1	1	University of Michigan	100	46	54
GEORGIA				Wayne State University	12	10	2
Atlanta University	1	1	0	Western Michigan University	1	1	0
Emory University	6	5	1	MINNESOTA			
Georgia Institute of Technology	16	16	0	University of Minnesota	44	28	16
Georgia State University	2	2	1	MISSISSIPPI			
Medical College of Georgia	1	1	0	Mississippi State University	3	3	0
University of Georgia	17	9	8	University of Mississippi	3	3	0
HAWAII				University of Southern Mississippi	1	1	0
University of Hawaii	13	8	5	MISSOURI			
IDAHO				St. Louis University	4	3	1
Idaho State University	1	0	1	University of Missouri/Columbia	18	15	3
University of Idaho	3	3	0	University of Missouri/Kansas City	2	1	1
ILLINOIS				University of Missouri/Rolla	7	7	0
DePaul University	1	1	0	Washington University	20	15	5
Illinois Institute of Technology	12	12	0	MONTANA			
Illinois State University	2	2	0	Montana State University	7	6	1
Loyola University	2	2	0	University of Montana	3	1	2

Institutions Granted Traineeships and Chosen by Graduate Fellowship Awardees—Fiscal Year 1972—Continued

U.S. Institutions	Totals	Trainer-Ships	Fellow-Ships	U.S. Institutions	Totals	Trainer-Ships	Fellow-Ships
NEBRASKA				OKLAHOMA			
University of Nebraska	9	7	2	Oklahoma State University	14	11	3
NEVADA				University of Oklahoma	11	10	1
University of Nevada	2	2	0	OREGON			
NEW HAMPSHIRE				Oregon Graduate Center	1	1	0
Dartmouth College	6	3	3	Oregon State University	11	10	1
University of New Hampshire	7	6	1	Portland State University	1	1	0
NEW JERSEY				University of Oregon	13	9	4
Newark C of Engineering	1	1	0	University of Portland	1	1	0
Princeton University	88	20	68	PENNSYLVANIA			
Rutgers, The State University	13	13	0	Bryn Mawr College	1	1	0
Seton Hall University	1	1	0	Carnegie-Mellon University	21	17	4
Stevens Institute of Technology	8	7	1	Drexel Institute of Technology	3	3	0
NEW MEXICO				Duquesne University	1	1	0
New Mexico Inst. of M&T	1	1	0	Hahnemann Medical College	1	1	0
New Mexico State University	7	6	1	Lehigh University	11	9	2
University of New Mexico	10	8	2	Pennsylvania State University	33	27	6
NEW YORK				Phila. C of Pharmacy & Sci.	1	1	0
Adelphi University	1	1	0	Temple University	6	6	0
Alfred University	1	1	0	Thomas Jefferson University	1	1	0
City University of New York	12	11	1	University of Pennsylvania	47	23	24
Clarkson C of Technology	6	5	1	University of Pittsburgh	18	13	5
Columbia University	48	28	20	Villanova University	1	1	0
Cooper Union	1	1	0	Medical College of Pa.	1	1	0
Cornell University	96	31	65	RHODE ISLAND			
Fordham University	3	3	0	Brown University	16	13	3
Mt. Sinai School Medicine	1	1	0	Providence College	1	1	0
New School for Soc. Research	2	2	0	University of Rhode Island	3	3	0
New York Medical College	1	1	0	SOUTH CAROLINA			
New York University	27	21	6	Clemson University	8	8	0
Polytechnic Inst. of Brooklyn	14	14	0	Medical U of South Carolina	2	1	1
Rensselaer Poly Inst	20	13	7	University of South Carolina	3	3	0
Rockefeller University	7	1	6	SOUTH DAKOTA			
St. Bonaventure University	1	1	0	South Dakota S of Mines	1	1	0
St. Johns University	2	2	0	South Dakota State University	3	3	0
State University of New York:				University of South Dakota	2	2	0
C of Forestry at Syracuse Univ.	3	3	0	TENNESSEE			
Downstate Medical Center	1	1	0	George Peabody College	1	1	0
SUNY at Albany	1	1	0	Memphis State University	1	1	0
SUNY at Binghamton	1	1	0	Univ of Tennessee/Knoxville	16	13	3
SUNY at Buffalo	12	12	0	Univ of Tennessee/Memphis	2	1	1
SUNY at Stony Brook	7	6	1	Vanderbilt University	11	10	1
Upstate Medical Center	1	1	0	TEXAS			
Syracuse University	17	15	2	Baylor University	1	1	0
Union College and University	1	1	0	Baylor Univ/Med C	1	1	0
University of Rochester	19	15	4	North Texas State Univ	2	2	0
Yeshiva University	5	3	2	Rice University	19	11	8
NORTH CAROLINA				Southern Methodist Univ	9	6	3
Duke University	21	10	11	Texas A & M University	13	10	3
North Carolina State Univ. at Raleigh	17	17	0	Texas Christian University	1	1	0
University of North Carolina	19	13	6	Texas Tech University	4	3	1
Wake Forest University	3	3	0	Texas Woman's University	1	1	0
NORTH DAKOTA				University of Houston	6	6	0
North Dakota State University	2	2	0	University of Texas/Arlington	1	1	0
University of North Dakota	3	3	0	University of Texas/Austin	36	26	10
OHIO				University of Texas/Dallas	1	0	1
Bowling Green State University	2	2	0	UTAH			
Case Western Reserve University	23	20	3	Brigham Young University	3	3	0
Kent State University	3	3	0	University of Utah	16	12	4
Miami University	1	1	0	Utah State University	7	6	1
Ohio State University	29	26	3	VERMONT			
Ohio University	3	3	0	University of Vermont	3	3	0
University of Akron	1	1	0	VIRGINIA			
University of Cincinnati	8	8	0	College of William and Mary	3	3	0
University of Dayton	1	1	0	University of Virginia	10	10	0
University of Toledo	1	1	0	Virginia Commonwealth University	1	1	0
				Virginia Polytechnic Institute	10	10	0

Institutions Granted Traineeships and Chosen by Graduate Fellowship Awardees—Fiscal Year 1972—Continued

U.S. Institutions	Totals	Trainee-Ships	Fellow-Ships	U.S. Institutions	Totals	Trainee-Ships	Fellow-Ships
WASHINGTON				WYOMING			
University of Washington	43	28	15	University of Wyoming	4	3	1
Washington State University	9	8	1				
WEST VIRGINIA				TOTAL AT U.S. INSTITUTIONS			
West Virginia University	7	6	1		3,336	1,808	1,528
WISCONSIN				TOTAL CHOOSING FOREIGN INST.			
Institute of Paper Chemistry	1	1	0		22	---	22
Marquette University	3	3	0	<i>See Following Page</i>			
University of Wisconsin/Madison	85	36	49				
University of Wisconsin/Milwaukee	6	5	1	GRAND TOTALS			
					3,358	1,808	1,550

Foreign Institutions Chosen by Graduate Fellowship Awardees, Fiscal Year 1972

	NUMBER		NUMBER
AUSTRALIA		SCOTLAND	
University of Adelaide	1	University of Edinburgh	2
		University of Glasgow	1
CANADA		UNITED KINGDOM	
University of Alberta	1	University of Cambridge	7
University of British Columbia	3	University of Essex	1
University of Toronto	1	University of London	1
Union C of British Columbia	1	University of Oxford	3
			(22)

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