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ABSTRACT

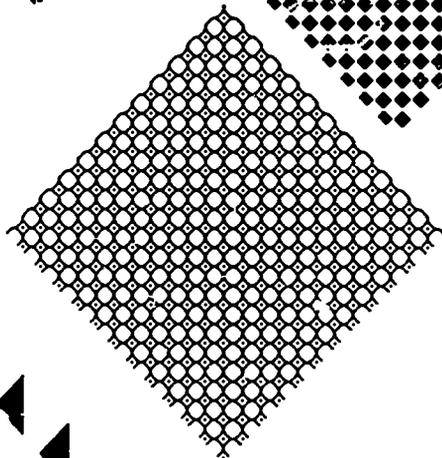
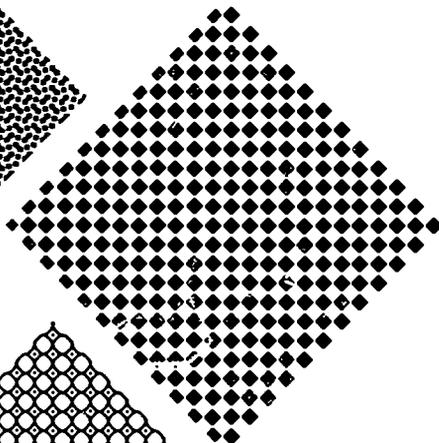
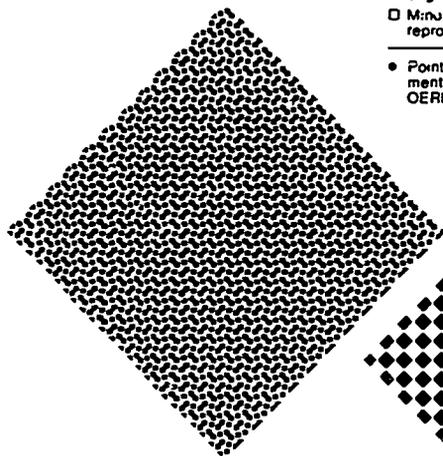
This guide to electronic technologies resource organizations offers a broad range of information about selected projects, centers, institutions, clearinghouse activities, courseware, software, unique products and services, consortiums, panels, forums, commissioned reports, and other available resources. Three major sections make up the guide: (1) Technology Resource Organizations--these provide an alphabetical listing of selected public and private organizations based nationally, statewide, and regionally; (2) State Departments of Education--which provide an alphabetical listing of state and U.S. territory departments of education including names, telephone numbers, addresses, and contact persons, as well as activity/product/service descriptions; and (3) an Index--listing organizations and contact persons. The guide is intended primarily for use by federal, state, local, and private education officials in obtaining information on electronic technologies to be utilized in the improvement of learning and instruction. (DB)

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Learning Technology Resource Guide

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Office of Educational Research and Improvement
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ERIC
CLEARINGHOUSE
ON INFORMATION
RESOURCES

SYRACUSE
UNIVERSITY

1989

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This publication is available from Information Resources Publications, Syracuse University, 030 Huntington Hall, Syracuse, NY 13244-2340 (IR-87: \$6.00 plus \$1.50 shipping and handling).

Lisa Crooks Zugner is a freelance writer and editor. A 1974 graduate of West Virginia University, she holds a B.S. degree in journalism with a specialty in advertising and minors in English and psychology. Her communications background includes copywriting and public relations work, manuscript editing for the ERIC Clearinghouse on Information Resources, and coordination of the annual Spring Media Conference for Syracuse University's School of Information Studies.

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Learning Technology Resource Guide

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Edited by
Lisa Crooks Zugner
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*Information for the 23 departments of education that are tagged with an asterisk consists only of the name and address of the department and one or two contact persons. This usually indicates that no response was received from that state or territory.

FOREWORD

This *Guide* to electronic technologies resource organizations is one of several ongoing efforts by the U.S. Department of Education to help policy and decision makers obtain useful, up-to-date information. It is the result of a cooperative effort among the Office of Educational Research and Information (OERI) staff, the Public Service Satellite Consortium, and the ERIC Clearinghouse on Information Resources.

The Department of Education has the broad responsibility of providing assistance and information about American education to the nation and assigns this responsibility to various units within the organization. OERI is mandated to support programs and activities related to research, development, demonstration, dissemination, evaluation, and assessment.

The Office of Information Services (IS) operates as the major dissemination unit within OERI by producing and distributing informational products as well as by operating the Educational Resources Information Center (ERIC) program. A major focus and concern of IS and ERIC is to assist practitioners, policymakers, and the public in their responsibilities for improving the nation's schools, colleges, and other educational systems.

Innovations and demonstrations using communications technologies are often complex and the results can be equally complicated and uncertain, especially when the delivery of materials or instructional services is intended to serve entire states or regions. However, these sophisticated and costly technologies are used widely and effectively in educational settings and can no longer be considered faddish or luxuries which states and school systems can only admire. These technologies need to be integrated into the educational and training programs of all schools and at all levels of instruction.

Integrating large-scale technologies into an educational system also requires the reallocation of resources and more in-depth policy analysis and planning. When considering the use of sophisticated electronic technologies in educational delivery systems, e.g., those utilizing interactive, self-paced instruction, decision makers need ready access to reliable sources of information in order to make informed judgments. This guide is specifically intended to help those education and public officials find good advice as well as technical assistance for the implementation of their plans to adopt or expand technology-based instructional programs, especially as they relate to distance education applications.

This document, also, is a good source for officials requiring information or technical assistance for applying technology to educational settings, and for using these technologies to link educational institutions with other social agencies. ERIC plans to collect material for additions and revisions as part of an ongoing process and to periodically reissue an updated version of the *Guide*.

Arthur D. Sheekey, Senior Research Associate
Information Services Division
Office of Educational Research and
Improvement
U.S. Department of Education

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Educational Resources Information Center
(ERIC)
Office of Educational Research and
Improvement
U.S. Department of Education

March 28, 1990

PREFACE

This *Learning Technology Resource Guide* is the result of many months of work and the collective efforts of numerous individuals, agencies, and organizations. It offers a broad range of information about selected projects, centers, institutions, clearinghouse activities, courseware, software, unique products and services, consortiums, panels, forums, commissioned reports, and other available resources related to electronic technologies. Three major sections make up the *Guide*:

1. Technology Resource Organizations: An alphabetical listing of selected public and private resource organizations including names, addresses, telephone numbers, contacts, and activity/product/service descriptions. National, regional, and state organizations are included, as well as professional associations.

2. State Departments of Education: An alphabetical listing of state and U.S. territory departments of education including names, addresses, telephone numbers, contacts, and activity/product/service descriptions. Names, addresses, telephone numbers, and contact persons are given for the 23 states and territories from whom no descriptive information was received.

3. Index: A comprehensive quick-reference listing of organizations and contact persons. While a comprehensive listing of resources in the index would be beyond the scope of this publication, a sampling of selected products, services, and activities is included to provide an indication of the broad range of resources offered by these organizations. The user of the *Guide* should be aware that other organizations offer similar services and products.

It is hoped and anticipated that the information presented here will prove to be a valuable resource in itself, and that future editions of the *Guide* will provide an even broader range of useful resource material. The submission of information by organizations not represented in this first printing is both welcome and encouraged. A submission form for the contribution of new or updated information is provided at the end of the *Guide*.

Initial solicitation of materials for the *Guide* was conducted in 1988 by George Rush of the Council of Chief State School Officers and by Louis Bransford and Suzanne Douglass of the Public Service Satellite Consortium (PSSC), in cooperation with the U.S. Department of Education's Office of Educational Research and Improvement (OERI), which was represented by senior research associates Arthur D. Sheekey and Kevin F. Arundel.

Under the supervision of Barbara Minor, Publications Coordinator for the ERIC Clearinghouse on Information Resources at Syracuse University, the editor undertook further solicitation responsibilities in June 1989, approaching prior respondents to the PSSC request as well as additional suggested contacts for resource organization information. Solicitation of information via telephone and written follow-up requests continued through the autumn months. Upon receipt of the bulk of the submissions (44 in the private organizations category and 32 in the state departments of education category), consolidation, editing, and word processing tasks were undertaken in early 1990 to bring the project materials to their final pre-printing stage.

The *Guide* is intended primarily to be useful for federal, state, local, and private education officials throughout the United States and its territories for use in obtaining electronic technologies information to be utilized in the improvement of learning and instruction.

The editor wishes to thank, in addition to those persons and organizations listed above, Dr. Donald P. Ely, Director, Dr. Michael B. Eisenberg, Associate Director, Barbara B. Minor, Publications Coordinator, and the other members of the ERIC Clearinghouse staff for offering the advice, assistance, and support so instrumental in bringing the *Guide* to fruition.

Lisa Crooks Zugner, Editor
Syracuse University
Syracuse, New York
March 1990

TECHNOLOGY RESOURCE ORGANIZATIONS



The Academy for Educational Development

1255 23rd Street, NW
Suite 400
Washington, DC 20037
(202) 833-7624 - Telex: 197821

Contacts

Willard Shaw
Judith Sparrow
Judy Brace
Don McNeil

Description/Activities:

The Academy for Educational Development was the implementing institution for the A.I.D. Rural Satellite Program, with field sites in Indonesia, the West Indies, and Peru. It operates the U.S. Telecommunications Training Institute, a joint training project of the U.S. telecommunications industries for international participants, manages a number of communication-related health, agriculture, and education projects in developing countries, and is implementing a FIPSE (Fund for the Improvement of Postsecondary Education) project on computer-conferencing and higher education.

Products and/or Services:

A series of publications is available on the Rural Satellite Program. Consultants are available for the planning and implementation of the application of electronic technologies in programs in the United States and developing countries.

Radio Learning Project

Radio Education Teacher Training II

Basic and Nonformal Education Systems Project

(same address and telephone number as AED)

Contacts:

Philip Sedlack, Technical Coordinator
Paula Gubbins, Administrative Coordinator

Description/Activities:

The Radio Learning Project: Worldwide development, dissemination, and support for primary school education delivered by interactive radio instruction. Sites include Bolivia, Costa Rica, Ecuador, and Honduras.

Radio Education Teacher Training II: Nepal project to train elementary school teachers by radio in subject and methodology.

Basic and Nonformal Education Systems Project: Lesotho educational assistance project which features teaching of English as a second language by radio.

Computer Conferencing Project

(same address and telephone number as AED)

Contact:

Dr. Donald McNeil, Senior Program Officer

Description/Activities:

A.E.D. will systematically compare college courses taught in the traditional lecture format with those taught totally by computer conferencing and those taught with the computer conferencing as a supplement to video transmission. Besides comparing academic performance of students in the various formats, the project will evaluate cost-effectiveness of conferencing as an instructional tool. It will also assess how well computer conferencing can be integrated into different subject areas and how it affects faculty members in terms of their motivations, teaching styles, and use of time.

U.S. Telecommunications Training Institute (USTTI)

c/o Academy for Educational Development
(same address and telephone number)

Contact:

Judith Sparrow, Director

Description/Activities:

USSTI, a joint venture between the U.S. telecommunications industry and the federal government, aims to share this country's communications and technological advances on a global basis by providing a comprehensive array of free telecommunications and broadcast training courses to qualified professionals from

the developing world. Since 1983, USTTI has trained over 1,500 persons from 109 nations.

AIT

Agency for Instructional Technology

Box A
Bloomington, IN 47402
(800) 457-4509 or (812) 339-2203

Contacts:

Edwin G. Cohen, Executive Director
William B. Perrin, Deputy Executive Director
Bennie Lucroy or Bob Fox, Development
Carol Koffarnus, Marketing
(United States and Canada)
John Nelson, Marketing (Overseas)

Description/Activities:

Evolving from a television library begun in 1962, the non-profit American-Canadian Agency for Instructional Technology (AIT) was established in 1973 to strengthen education through technology. AIT pursues its mission through the development and distribution of video and computer programs and printed materials in association with state and provincial education agencies. In addition, AIT acquires, enhances, and distributes programs produced by others. AIT programs are used in schools throughout the United States and Canada.

Products and/or Services:

Current state/provincial cooperative curriculum projects: *Exploring Technology Education* (vocational, high school); *Geography in American History* (history, grade 11); *Matter and Motion* (science, intermediate); *Reading Strategies* (language arts); *Taxpayer Education* (economics, history, grade 8); *Workplace Readiness* (vocational, high school); *Wordscape* (language arts, grade 5); and *Your Choice...Our Chance* (drug abuse prevention).

Current international cooperative curriculum project: *Western Europe-North America* (economics, history, geography, high school).

AAJC

American Association of Community and Junior Colleges

One Dupont Circle, NW
Suite 410
Washington, DC 20036
(202) 293-7050

Contacts:

Phil English, Vice President
Technology and Communications Services
James R. Mahoney, Director
Administrative Services

Description/Activities:

Conduct of teleconferences, administration of computer-based electronic network, and FAX network.

Products and/or Services:

Products: videotape copies and manuals/study guides.

Services: free ID code for involvement in electronic network (for members).

AAASA

American Association of School Administrators

1801 North Moore Street
Arlington, VA 22209
(703) 528-0700

Contact:

Lewis A. Rhodes, Associate Executive Director
Instructional Leadership and Technology
(703) 875-0733

Description/Activities:

Applications of telecommunications to issues of leadership, improvement, and restructuring.

Products and/or Services:

Articles, workshops, and presentations.

American Library Association

50 East Huron
Chicago, IL 60611
(312) 944-6780

Contact:

Rob Carlson, ALANET System Manager
(800) 545-2433
(800) 545-2444 (in Illinois)
(800) 545-2455 (in Canada)

Description/Activities:

ALANET is a leader in supporting electronic communications for associations, networks, and other groups. With powerful technologies for electronic publishing and communications, it is able to develop and implement networks for communications, bulletin boards, interlibrary loans, and many other cooperative activities.

The same systems that create ALANET's menus, bulletin boards, electronic newsletters and interactive forms are also available to state library agencies, networks, and consortia, associations, committees, and other organizations. Participants in individual sub-networks also have access to the full ALANET electronic mail network and many other services available to all ALANET ID-holders.

Products and/or Services:

Electronic communications: A link to more than 1,600 librarians, libraries, suppliers, and related organizations—for fast, economical communications between committee members, library branches, or network members.

ALANET PLUS: A gateway to more than 700 databases available through EasyNet™. A wide variety of databases is available for use in such areas as library and information science, associations, copyright, education, government, business, medicine, and telecommunications.

ALA Electronic Newsletters: Online access to some of ALA's most important current professional services including ALA Washington Newline, Intellectual Freedom Alert, the *ALA Publications Checklist*, *Booklist* and *Reference Books Bulletin Advance Reviews*, and the Grapevine library job alert.

ALA Information Services: The "online ready reference shelf" includes the *ALA Publications*.

Checklist, ALA Headquarters Library Referral Directory, ALA Midwinter Meeting and Annual Conference meeting schedules, a bulletin board of user-generated announcements, and the calendar of state, regional, and national library association meetings.

Current Awareness Services: A link to newswires such as AP, UPI, and USA TODAY, UPDATE, BNA Online, FEDWIRE, VU-TEXT, and Dow Jones News/Retrieval. Orders may be submitted online from the UMI Article clearinghouse with no deposit account required and the lowest rate guaranteed.

Service options and customized services: Full-service and intermediate service plans are available. Charges are based primarily on actual connect time and usage, with no monthly minimum. ALANET can be reached through any terminal, microcomputer, or word processor equipped with a modem. Any organization or individual may subscribe. Special services can be designed for group distribution lists, private electronic newsletters, bulletin boards, electronic teleconferencing, and interactive forms such as ILL requests and registration forms. Consultation and training services are also available.

Annenberg/CPB

The Annenberg/CPB Project

1111 16th Street NW
Washington, DC 20036
(202) 955-5251

Contact:

Mara Mayor, Director

Description/Activities:

The Annenberg/CPB Project was created in 1981 to enhance the quality and availability of higher education through the use of telecommunication and information technologies. With funding of \$10 million a year for 15 years provided by The Annenberg School of Communications to the Corporation for Public Broadcasting, the Project seeks to increase opportunities for those who wish to obtain a college-level education, especially at the baccalaureate level.

Products and/or Services:

Products: A range of projects has been funded to demonstrate innovative uses of technology for higher education. Research results are available for many of those projects, and, in some cases, software, video, or videodiscs are available. The Project has also funded the development of a collection of video and audio-based courses. Each course includes a set of video and/or audio, a text, a study guide, and a faculty guide, and sometimes includes additional reading material. Research reports on the use of technology in higher education are also available.

Funding: The Project provides funds in two broad, and sometimes overlapping categories. It can support the development of innovative, academically rigorous course materials capable of use beyond the confines of the campus classroom, and the exploration of new ways in which higher education can use the various electronic technologies to enhance both the quality and availability of teaching and learning. The academic focus for the Project's work is on the liberal arts and sciences curriculum at the baccalaureate level. Appropriate technologies include broadcast television and radio, videocassette and audiocassette, computers, laser discs, communication networks, or any combination of these or other available systems.

Research reports available on order: *Nebraska Videodisc Science Laboratory; A Study of Telecourse Students; Research on Student Uses of A/CPB Telecourses in the Fall of 1984; Faculty and Administrator Use of Annenberg/CPB Project Video Courses (Diffusion of Instructional Television in Higher Education); Student Uses of Correspondence Courses and a Comparison with Uses of Telecourses; Evaluating Student Outcomes from Telecourse Instruction; Adoption & Utilization of Annenberg/CPB Project Telecourses; Faculty Perspectives on the Role of Information Technology in Academic Instruction; Instructional Technology in Higher Education: Educational Uses of Telecommunications Technology in American Colleges and Universities; Telecourse Enhancement Through Electronic Mail; Statewide Planning for Telecommunications in Education; An Evaluation of Learning and Attitudinal Changes in Students Enrolled in Economics USA; Student and Faculty Assessment of Annenberg/CPB Telecourses; Intermedia; Assessing Electronic Text for High Education: Evaluation*

Results from Laboratory and Field Tests; Telecourse Design and Needs Assessment Survey; and Telecourse Utilization Survey First Annual Report: 1986-1987 Academic Year.



Association for Educational Communications & Technology

1025 Vermont Ave., NW
Suite 820
Washington, DC 20005
PHONE: (202) 347-7834
FAX: (202) 347-7839

Contacts:

Stanley D. Zenor, Executive Director

Nancy Klinck, Publications Coordinator

Donna Hoffman, Convention Coordinator

Karen Boyle, Director of Marketing

Description/Activities:

AECT is the only national professional association dedicated to the improvement of instruction through the effective use of media and technology. AECT assists its members in using technology in their jobs and to enhance the learning process.

AECT sponsors an annual convention each year, and cosponsors the INFOCOMM Exposition. The organization also publishes two journals and a newsletter.

Products and/or Services:

TechTrends Magazine is published six times per year. It is peer written and reviewed, and includes timely articles about the latest developments in educational technology.

Educational Technology Research & Development is a quarterly journal which offers articles on research and applied theory, instructional design, and instructional development.

Job Referral Service.

AECT has also published dozens of books and videos on the subject of educational technology.

Center for Technology in Education

Bank Street College of Education
 610 West 112th Street
 New York, NY 10025
 (212) 663-7200

Contacts:

Karen Sheingold, Director

Doris Redfield, OERI Center Liaison
 Office of Research
 Learning and Instruction Division
 (202) 357-6032

Collaborators:

Bolt Beranek & Newman Inc.

Brown University

Harvard University

Programs of Research and Principal Investigators

Design Experiments

Allan Collins

Practices and Barrier Studies

Karen Sheingold

Teacher Understanding of Technology Integration

M. Honey

Experimental Courses for Educators

C. Brunner

Expert and Novice Representations of Domain Knowledge

K. Spoehr

Intermedia

S. Gibbon and N. Yankelovich

Multimedia Environments

Kathleen Wilson

Rochester Study

Karen Sheingold

Home-School-Community Studies

S. Goldman

New Technologies for Mastery Assessment in the Service of Learning

J. Fredriksen

Technology-Enhanced Domain Projects and Portfolios

Howard Gardner

Assessment Research in Design Experiments

A. Collins

Description/Activities:

The four consortium partners in The Center for Technology in Education have designed a cohesive program of research and development to fulfill their common mission, which is intended to lead to an understanding and demonstration of how technology can improve student achievement and, consequently, school productivity, in several curriculum areas including the humanities, sciences, and social studies. CTE funding for a five-year grant to the Bank Street College of Education began October 1, 1988. In the interest of integrating technology into learning and instruction, CTE is engaged in a series of design experiments in which the staff will facilitate and study the conditions for successful implementation of technologies in schools; work toward developing a design science of education; conduct a "best practices" study which will survey teachers nationally to find out which factors they believe contribute to the successful integration of technology; conduct an in-depth interview study of teachers who are expert at the integration of technology into curriculum; and design and co-teach preservice courses for teachers that integrate curricular content study with technology. CTE also plans to research and develop a number of assessment methods that are technology based and are closely tied to curriculum, to student learning, and to performance, including portfolios, domain projects, and a mastery assessment system.

Products and/or Services:

Bank Street College of Education, Center for Children and Technology houses the national center. Over the past decade Bank Street College has been a leader in educational technology research, development, and software production. CCT has undertaken basic and applied research, policy studies, and advanced prototype development, all with the general purpose of advancing knowledge about improving learning environments for children. CCT designers have developed prototype computer-based technologies to help effectively reorganize both the content and process of classroom learning and teaching. These include Inquire, a software tool to support science

inquiry, and Earth Lab, a local area network system to promote students' collaborative science work. The advanced multimedia prototype, *Palenque*, has been nationally recognized as a model for future educational design and development. Through its Media Group, Bank Street College has developed educational software, such as the Bank Street Writer, which is widely used in schools nationwide. And Bank Street's *Voyage of the Mimi* project has provided a unique example of how video, computer software, and print materials can be integrated to promote student science learning.

Bolt Beranek and Newman Inc., in Cambridge, Massachusetts, is a high technology corporation whose computer scientists and cognitive scientists have conducted seminal research in education and related fields for more than 25 years. Its activities have spanned all educational levels and subjects as diverse as mathematics, reading, and the design of electronic circuitry. It has been a leader in the application of artificial intelligence techniques to education, and has pioneered the development of intelligent tutoring systems. BBN has worked closely with schools, and is well known as the developer, with the Massachusetts Institute of Technology (MIT), of LOGO, the first programming language for children. BBN researchers have also developed QUILL, software for teaching reading and writing skills, and are now creating a bilingual science education course for middle and high school students that uses ELASTIC, BBN's software tool for statistical reasoning.

Brown University, Institute for Research on Information and Scholarship (IRIS) was established in 1983 to investigate ways in which computing technology can help individuals in their research, teaching, and learning. Working closely with Brown faculty and students, the IRIS staff has developed Intermedia, a hypermedia system that allows authors to make links and readers to follow these links through a body of scholarly materials including text, graphics, video, and sound. Instructional experiments at Brown with Intermedia have documented its value for promoting students' subject-matter knowledge, and critical and integrative thinking.

Harvard University, Graduate School of Education, Project Zero is an interdisciplinary research group that has sought insights from the disciplines of philosophy, psychology, neurology, mathematics, the arts, technology, and education in its investigations of human

symbolic functioning and its development. Project researchers have conducted extensive research in several areas, including the development of "multiple intelligences" and the transition to literacy in early childhood. In a current project, carried out collaboratively with the Educational Testing Service and the Pittsburgh public schools, Project Zero staff members are developing ways to assess student work in imaginative writing, music, and art.

The logo for Children's Television International, Inc. (CTI) consists of the letters "CTI" in a white, serif font, centered within a solid black rectangular background.

Children's Television International, Inc.
8000 Forbes Place, Suite 201
Springfield, VA 22151
(703) 321-8455

Contact:
Ray V. Gladfelter, President

Description/Activities:
CTI is a nonprofit organization that produces and distributes quality educational programming. Primary user agencies service kindergarten through post-secondary levels of education. Marketing is done with broadcasting stations having an ITV service, state departments of education, and cable/low power stations.

Products and/or Services:
CTI's series of entertaining and informative television programs are listed in its annual *CTI, Inc. Catalog*, available by writing to the above address. The catalog lists series by grade level (K-3, 4-6, 7-9, and 10-12) and subject area, and also includes a listing of teacher inservice programs. Many of the available series programs have received major film industry and international awards. Some subject areas are: applications of personal computers, art history and appreciation, reading motivation, communications arts, citizenship skills and civics, primary level science, intermediate level social studies, language arts, black folklore, communications arts (i.e., movies, news, and newspapers), literature (the novel and the short story), and earth/space science. All series, each consisting of a number of fifteen- or thirty-minute television programs, are available with teachers' guides (defining the concepts and objectives of each CTI program) and fact sheets. Teacher Guides also list additional resources pertaining to the subjects presented. Pre-

selected cassettes, of which the first two programs in a series are provided free, are available for all CTI series. The cost of leasing a CTI series is calculated by base fee + student fee x # of programs in a series + tape loaner fee when applicable. Tape loaners are also available for dubbing by the customer. Discounts are available when one-year rights are leased through the Regional Group Buys. New releases for Fall 1987 are *The Play* and *First Americans*. See current catalog for additional available series and up-to-date pricing information.



Computer Learning Foundation
P.O. Box 60967
Palo Alto, CA 94306-0967

Contact:
Leora Langs, Marketing Operations Manager

Description/Activities:
The Computer Learning Foundation offers a variety of programs and materials to aid in more effective use of computers and software. New materials are released each year in time for Computer Learning Month in October, some of which are available free at sponsoring retailers during that month; however, materials are available all year.

Products and/or Services:
Lesson Plan Books: Edition I (K-5, 6-8, 9-12), Learning Together (K-5, 6-8, 9-12), Special Education, and Early Childhood. Also, Telecommunications Guide, University Software Resource Guide, Everything You Need to Know (But Were Afraid to Ask Kids) About Computer Learning, Preparing for a Career in the 21st Century, and Family Activity Guide.



Connecticut Educational Media Association
31 Bonnie Brook Road
Westport, CT 06880
(203) 266-6236

Contact:
Harriet Silverstone, President

Description/Activities:
Professional association.

Products and/or Services:
Conference each year; network of professional contacts.



Connecticut Educators Computer Association
P.O. Box 2459
Meriden, CT 06450
(203) 656-0426

Contact:
Judy Crawford, President

Description/Activities:
Professional association

Products and/or Services:
Conference network of professional contacts.



Corporation for Public Broadcasting
1111 16th Street, NW
Washington, DC 20036

Contacts:
Margaret Villarreal, Education Issues
(202) 955-5264

Edward Coltman, Technology Applications
(202) 955-5218

Description/Activities:
CPB is a private non-profit corporation that was authorized by the Public Broadcasting Act of 1967 to develop noncommercial radio and television services in the United States. It makes grants to eligible public radio and television stations and undertakes other activities that further the development of public telecommunications in the United States.

Products and/or Services:

CPB publishes and distributes at nominal cost various reports and studies concerning timely public telecommunications issues. A copy of publications currently in print is available on request by calling (202) 955-5144, or by writing to: Publications Sales, Corporation for Public Broadcasting, 1111 16th Street, N.W., Washington, DC 20036.



Council of Chief State School Officers

400 North Capitol Street, NW
Suite 377 - Hall of the States
Washington, DC 20001-1511
(202) 624-7700

Contact:

Todd Landfried, Senior Analyst/S.T.R. Liaison



Curriculum Resources Center

Rhode Island College
600 Mt. Pleasant Ave.
Providence, RI 02908

Contacts:

Dr. Maureen T. Lapan, Director
Ms. Doris Costa, M.Ed., Assistant Librarian
Dr. David C. Woolman, Librarian

Description/Activities:

The Curriculum Resources Center houses a sampling of K-12 instructional materials which may be found in schools in Rhode Island, as well as a cross section of instructional materials utilized in New England, other sections of the United States, and other English-speaking countries. While the core of the collection focuses on subjects normally included in elementary and secondary school curricula, special collections representing areas of current concern have been developed. Some recent special collections are computer-based education and space and earth science materials. The Cen-

ter also contains a selection of textbooks of historical interest, dating from the mid-19th to the 20th Century. In addition, the Curriculum Resources Center maintains extensive files of catalogs from publishers, manufacturers, professional associations, school departments, universities, and curriculum projects. These files provide patrons with information on media beyond that housed in the Curriculum Resources Center.

Products and/or Services:

The Curriculum Resources Center publishes a newsletter, *Software Resources*, which contains lists of software available to Center users as well as software reviews and articles on the utilization of software in educational centers. In addition, annotated bibliographies in areas of special interest are developed and disseminated to all Rhode Island school systems and private schools. A pamphlet further describing the Center's materials, topical areas, services, and facilities is available by contacting Rhode Island College at the above address.



Educational Products Information

Exchange (EPIE) Institute

P.O. Box 839
Water Mill, NY 11976
(516) 283-4922

Contacts:

Mark Sherry, Director of Software Evaluations
(Telephone in Brookville, NY: (516) 621-5950)

Description/Activities:

Founded in 1967 as education's only nonprofit, independent consumer agency, EPIE is the key to better educational buying decisions. The goal of each service is to maximize school purchasing dollars by unlocking the door to fully informed buying decisions for technical and fast-changing educational products. EPIE is supported by subscriptions from schools, colleges, libraries, and state departments of education. Vital support for research also comes from private foundation grants. Its publications contain no advertising, and EPIE accepts no support from producers of the products it evaluates, making it uniquely qualified to pro-

vide the most objective consumer information and product evaluations possible.

Products and/or Services:

Micro-Courseware PRO/FILE Evaluations:

PRO/FILES have reliably provided for years the highest quality independent evaluations of educational software available. Each *PRO/FILE* contains critical ratings and objective analyses that enable school consumers to judge with confidence the instructional and technical qualities of courseware. An in-depth analyst's summary provides a thorough, analytical evaluation of the educational and programming qualities of the product. (This product has been incorporated into *TESS, The Educational Software Selector*.)

The ISS Report: EPIE's report on computer-based integrated instructional systems.

Integrated Instructional Systems, also known as integrated learning systems or ILS, are rapidly gaining wide acceptance in schools. Installations can cost \$100,000 or more, yet it is nearly impossible for an individual school or district to thoroughly evaluate each of the systems to determine which will best meet its students' needs. In this report, eight systems receive intensive examination. They are: WICAT Systems, Wasatch Educational Systems, Educational Systems Corporation (ESC), Computer Systems Research (CSR), Computer Curriculum Corporation (CCC), Ideal Learning Systems, New Century, and Computer Networking Specialists (CNS). Three additional systems will be presented in a descriptive but not evaluative fashion. The evaluations by a team of EPIE researchers provide purchasers with the following information: on-site observations of and interviews with learners, teachers, and administrators at schools where these systems are being used to determine how they work in different school settings around the country; evaluations of the management systems and the courseware that each company will market for the 1989 school year in mathematics (including algebra), language arts, science, and reading for grades K-8; and essays on topics specific to the use of the systems, written by some of the country's leading educators. The research for the 1989 *EPIE Report on Computer-Based Integrated Instructional Systems* was undertaken with a grant from the W. Alton Jones Foundation.



ESN

Education Satellite Network (ESN)

A Service of Missouri School Boards Association
2100 I-70 Drive SW
Columbia, MO 65203
800-221-MSBA; (314) 445-9920

Contact:

Mr. Hal Gardner, Director
Satellite Communications

Description/Activities:

ESN offers instructional and enhancement programming for grades K-12 and staff development for teachers.

Products and/or Services:

Schools may become ESN affiliates and receive a basic package which includes receiving hardware, a variety of programming and support including full maintenance of the receiving system. Special credit courses for high schools are offered for additional fees.



ETC

Educational Technology Center

Harvard Graduate School of Education
337 Gutman Library
6 Appian Way
Cambridge, MA 02138
(617) 495-9373

Contacts:

Judah L. Schwartz, Co-Director

Martha Stone Wiske, Co-Director

Ram Singh, OERI Center Liaison
Office of Research
Learning and Instruction Division
(202) 357-6032

Affiliated Organizations: Cambridge, Newton, Ware, and Watertown, MA, school systems; Children's Television Workshop; Education Collaborative for Greater Boston; Education Development Center; Educational Testing Service; Interactive Training Systems; and WGBH Educational Foundation.

Description/Activities:

Programs of Research and Principal Investigators

Mathematics Education Program

James J. Kaput

Science Education Program

Susan E. Carey

Computer Education Program

David N. Perkins

New Technologies Program

Judah L. Schwartz

The Educational Technology Center's goal is to study ways of using the computer and other information technologies to teach for understanding in K-12 science, mathematics, and computing. Research focuses on "targets of difficulty" that have been identified by subject matter experts, researchers, and teachers as topics in the curriculum that are both central to their disciplines and difficult to teach and learn.

Mathematics education research focuses on word problems, geometry, and algebra. Projects in all three areas use the computer's capacity to provide dynamic visual representations of mathematical ideas.

Science education projects examine the use of computer-based simulations to help students learn difficult conceptual distinctions such as weight from density and heat from temperature. They also focus on students' ideas about the nature and purpose of scientific work and on teaching the process skills associated with scientific inquiry.

Computing education projects include research aimed at identifying and reducing students' difficulties in learning to program, research on the educational uses of systems modeling software, and research on how to introduce teachers and students to the use of applications software such as databases and spreadsheets. Two additional projects on emerging technologies explore the educational potential of microcomputer-based conferencing and interactive videodisc.

The Center has developed an approach to teaching for understanding in mathematics and science which: (1) focuses on key concepts in these subject areas; (2) builds on students' beginning ideas; (3) engages students in a process of constructing knowledge that fosters understanding of key concepts, models, and the

processes of mathematical and scientific reasoning; and (4) takes advantage of new technologies to collect and sort data, represent and manipulate concepts, and model and simulate phenomena.

The Center has developed a research approach suited to its mission of conducting research that will improve educational practice. This approach includes: (1) collaborative research and design teams involving teachers, researchers, subject matter experts, and curriculum and software developers in all phases of work; and (2) an integrated sequence of activities that combine research, software and curriculum development, and continual attention to issues of practical implementation in American schools. As part of this approach the Center has established laboratory sites in the four school districts that are members of the ETC consortium to investigate the use of research-based innovations in real classrooms and schools.

Products and/or Services:

The Center has developed a multifaceted dissemination approach including the following list of products and strategies to make the Center's work useful to a broad range of audiences:

Making Sense of the Future, a position paper on the role of technology in science and mathematics education, has been distributed to more than 25,000 practitioners, researchers, and school administrators and policymakers at local, state, and federal levels.

More than 40 technical reports present the goals, data, and conclusions of ETC projects, of interest primarily to researchers and others concerned with research results.

Three conference reports summarize themes that emerge from conferences sponsored by ETC. Directed to a general audience, each report addresses a central issue in education technology.

Three topical papers, written by ETC associates, explore topics that complement the technical reports.

Three videotapes, and accompanying print materials, produced jointly by ETC and Education Development Center, highlight key relationships among teachers, technology, and subject matter. This material is designed for teachers,

other school personnel, parents, and policymakers.

Two pieces of published software have been developed in conjunction with research on computer-based conferencing and classroom use of software.

Prototype software and teaching materials, produced by several projects in the course of their research, are available as experimental units to teachers and other researchers.

A national newsletter entitled *Targets* is published three times per year and circulated to over 15,000 individuals, organizations, and school districts across the country.

In addition to the products listed above, the Center's dissemination efforts have included four conferences, most recently a national conference entitled "Making Sense of the Future." This event, sponsored in collaboration with several other institutions doing similar work, drew over 200 educators from across the country to a series of sessions synthesizing the first five years of ETC research.

The Center has dozens of books and articles available for purchase. For a list of publications and prices, write to "Publications" at the Educational Technology Center's main address.



ERIC Clearinghouse on Information Resources

030 Huntington Hall
Syracuse University
Syracuse, NY 13244-2340
(315) 443-3640

Contacts:

Donald P. Ely, Director
Michael B. Eisenberg, Associate Director
Nancy R. Preston, User Services Coordinator
ERIC/IR, Syracuse University

Kevin Arundel, OERI Project Officer
Educational Resources Information Center
(ERIC) Branch
(202) 357-6856

Description/Activities:

ERIC/IR is one of sixteen clearinghouses sponsored by the Office of Educational Research and

Improvement (OERI) that collect and process printed materials on education that are not available commercially for the ERIC (Educational Resources Information Center) database. ERIC/IR focuses on materials dealing with educational technology and library and information science at all levels. Areas of interest include instructional design, development, and evaluation with emphasis on educational technology; the media of educational communication including computers and microcomputers, telecommunications (cable, broadcast, and satellite), audio and video recordings, film and other audiovisual materials; the operation and management of information services for education-related organizations; and all aspects of information technology related to education.

Products and/or Services:

Publications: digests (two-page overviews of topics of current interest); minibibliographies (providing annotated citations to items in the ERIC database about popular topics); a monograph series featuring trends and issues analyses, synthesis papers, and annotated bibliographies; and a semi-annual newsletter highlighting system news, recent clearinghouse publications, and recent entries in the database of special interest to practitioners.

Information Services: provides responses to questions about the ERIC system, the clearinghouse, and matters within its subject scope; information about clearinghouse products and publications; assistance in locating ERIC collections; and advice on using ERIC or preparing a manual or online search of the database.

Database Searches: custom searches of the ERIC database on topics within the subject area covered by the clearinghouse. The product of a search is an annotated bibliography of ERIC documents announced in *Resources in Education* (RIE) and journal articles announced in *Current Index to Journals in Education* (CIJE).



Idaho Educational Public Broadcasting System

1910 University Drive
Boise, ID 83725
(208) 334-3300

Contacts:

Jerrold A. Garber, General Manager

Peter Morrill, Executive Producer

Barbara Pullings, Executive Producer

Description/Activities:

Operator of Learning Link computer-based telecommunications in Idaho, and deliverer of ITV services through open broadcast, ITFS, and microwave.

Products and/or Services:

Program production services.

**InterAct****InterAct**

Region IV Education Service Center

P.O. Box 863

7200 West Tidwell

Houston, TX 77001

(713) 462-7708

Contacts:

Dr. William McKinney, Executive Director

Gary Haseloff, Texas Education Agency,

Division of Educational Technology

1701 N. Congress

Austin, TX 78701

(512) 463-9087

Description/Activities:

A distance learning program to serve public schools, businesses, and adult learners. InterAct is currently a four-channel ITFS network serving subscribers in over 30 school districts within a 50-mile radius of downtown Houston.

Products and/or Services:

Credit courses, teacher inservice, administrator orientation, delivered via one-way video (ITFS), two-way audio interactive telecommunications network. The network plan is to expand to adults on their jobs. Savings in travel and time related to acquiring knowledge and additional skills is one benefit to users in the metroplex.

**ISTE****International Society for Technology in Education (ISTE)**

University of Oregon

1787 Agate Street

Eugene, OR 97403-9905

(503) 686-4414

Contact:

Maia S. Howes, ISTE Secretary

Description/Activities:

The merged society of the International Council for Computers in Education and the International Association for Computers in Education, ISTE is the largest nonprofit professional organization in the world serving computer-using educators. It promotes computers and computer education at the pre-college level. ISTE has been involved with K-12 educational technology since 1979. Its goals are to establish a single identifiable focal point and voice for communication and collaboration with international policy makers and other professional organizations; improve the quality of education by promoting the appropriate use of information technologies; support technology-using professionals including teachers, computer and curriculum coordinators, teacher educators, information resource managers, and educational technology specialists; facilitate local and international sharing of information and communication among technology-using professionals in all areas and levels of education; encourage research and evaluation relating to the effective use of technology in education and to promote the dissemination of research to practitioners; and cooperate with manufacturers, publishers, and other private sector organizations to identify needs and establish standards for hardware, software, and other technology-based educational systems, products, and services.

Products and/or Services:

In addition to numerous books and courseware, publications including *The Computing Teacher*, *The Computing Teacher and Update*, and *Journal of Research on Computing in Education* are available to libraries and companies by subscription. General, professional, and institute memberships to ISTE are available.

A comprehensive booklet offering information about membership and describing the wide variety of books, courseware, special interest groups, and independent study courses available through ISTE is available by writing to the above address.



IFS, Inc.

International Telecommunication Services, Inc.

P.O. Box 1290
1640 West College Avenue
State College, PA 16804
(703) 476-4468 or (814) 234-4011

Contact:

William M. Barnhart

Description/Activities:

Acquires, produces, and distributes instructional programming for broadcast and non-broadcast utilization at the K-12 and postsecondary level. Produces, publishes, and distributes ancillary material for above programming. Provides consultant services for broadcast distribution and media utilization in the educational process.

Products and/or Services:

Programming for use in the classroom for K-12 and postsecondary.



KQED

KQED Instructional Television

500 Eighth Street
San Francisco, CA 94103
(415) 553-2140

Contact:

Dr. Milton Chen, Director
Instructional Television

Products and/or Services:

Over 90 instructional television series broadcast on three PBS stations each school day (KQED-San Francisco, KVIE-Sacramento, and KMTV-Fresno); annual Program Schedule, free quarterly VISION newsletter, teachers' guides to ITV series, and other supporting print materials

available including free Electric Classroom Schedule; over 200 workshops given each year in 41 counties in California to help teachers and educators utilize instructional video; special emphasis is given to correlation with state curriculum frameworks. KQED-San Francisco also broadcasts an educational TV summer program schedule called *Vacation Video*; broadcasts are supplemented by a free 40-page magazine distributed through local public library branches; target audience is 5- to 12-year-olds. Funding for school year ITV services is provided by the California State Department of Education. To help school administrators plan for the use of instructional television, KQED-ITV has produced a 32-page booklet entitled - *Instructional Television in the Classroom: The Principal's Agenda*. The booklet is available for \$3.00 by writing to the Materials Coordinator at the above address:



MCC

Maine Computer Consortium

Maine Center for Educational Services
Box 620
Auburn, ME 04212-0620
(207) 783-0833

Contacts:

Cathy Glaude, Acting Director

Mike Muir, Educational Technologist

Doris Ray, Educational Technologist

Connie Beedy, Administrative Assistant

Betsy Caswell, Business Manager

Description/Activities:

The Maine Computer Consortium is a membership organization serving educational organizations in Maine. Currently, the Consortium services 650 Maine schools (approximately 70% of Maine's schools), the University of Maine College of Education, and the Maine Department of Educational and Cultural Services.

Products and/or Services:

In addition to consulting, a partial list of services provided includes: operation as a central clearinghouse for software/hardware information; housing of an extensive educational software review center open to Maine

educators; sponsorship of workshops, conferences (including a statewide conference) and institutes; coordination of Lesley College Master's Program Outreach sites in Maine; offering of cooperative purchasing programs to Maine schools; and operation and maintenance of a statewide telecommunications bulletin board system (BBS).

Maine State Library

Maine State Library
State House Station #64
Augusta, ME 04333
(207) 289-5620

Contact:

Walter J. Taranko, Media Coordinator

Description/Activities:

Consultation available to schools in the state of Maine in the area of educational technology. Emphasis is on video and distance learning.

Products and/or Services:

Videotape library of over 1,800 educational programs available to Maine schools.

Contact:

Karl Beiser, Library Systems Coordinator

Description/Activities:

Assistance to libraries in utilization of computers for in-house applications.

Products and/or Services:

MaineCat statewide library catalog on CD-ROM.

Midlands Consortium

Midlands Consortium
Oklahoma State University Education
and Research Foundation
Stillwater, Oklahoma

Contacts:

Dr. Kenneth McKinley, Director
Midlands Consortium
408 Classroom Building

Stillwater, OK 74078
(405) 744-6508

Malcolm V. Phelps, Assistant Director
Midlands Consortium Star Schools Project
Oklahoma State University
309 North Cordell
Stillwater, OK 74078
(405) 744-8131

Joseph Wilkes
OERI/PIP Project Officer
(202) 357-6200

Description/Activities:

The Midlands Consortium, which received grants of \$5.5 million in FY88 and \$4.2 million in FY89 from the Star Schools Program, is a partnership composed of public and private elementary and secondary schools, state departments of education, state school board associations, and leading universities in Alabama, Kansas, Mississippi, Missouri, and Oklahoma. Oklahoma State University Education and Research Foundation, Stillwater, OK, serves as the fiscal agent and management partner for the consortium. The consortium will offer a wide range of high school credit courses for students and staff development courses for teachers. Technical assistance and training will also be provided for teachers and administrators to update their content knowledge and to train them in the uses of technology for distance education.

NCRIPMI

**National Center for Research to Improve
Postsecondary Teaching and Learning**
Program on Learning, Teaching and Technology
2400 SEB, The University of Michigan
Ann Arbor, MI 48109-1259
(313) 936-2741

Contacts:

Robert B. Kozma, Program Director

Jerome Johnston, Associate Program Director

Description/Activities:

Research on effective technology and technology in the classroom context (word processing tools for English composition and simulations for laboratory classes have been studied to date), and management of competition and

judging for the annual EDUCOM/NCRIPAL Higher Education Software Awards.

Products and/or Services:

The Best of '89 Videotape (also *The Best of '88*, which includes *The Best of '87*), *Directory of Software Submitted for the 1989 EDUCOM/NCRIPAL Higher Education Software Awards* (1987 and 1988 directories also available), *Report on the 1988 EDUCOM/NCRIPAL Higher Education Software Awards* (1987 also available), *Design in Context: A Conceptual Framework for the Study of Computer Software in Higher Education*, *Electronic Information: Literacy Skills for a Computer Age*, *The Electronic Classroom in Higher Education: A Case for Change*, *The Electronic Classroom* videotape series (includes . . . *In Higher Education*, . . . *At the University of Michigan*, . . . *In the Regional Teaching University*, and . . . *In the Community College*), and *The Electronic Classroom Seminar* (includes selected books, guides, and videotapes).



National Governors' Association
Hall of the States
444 North Capitol St., NW, Suite 250
Washington, DC 20001

Contacts:

Michael Cohen, Director
Education Programs

Jean McDonald, Senior Policy Analyst
Education Programs

Description/Activities:

1986 Governors' Task Force on Technology, chaired by Governor John Sununu of New Hampshire, held hearings and developed recommendations on state policies to promote effective use of technology in the schools. Annual followup on the *Time for Results* report—*Results in Education: 1987*; *Results in Education: 1988*; *Results in Education: 1989*. Each contains a chapter on states' policies and practices in education technology during the past year.

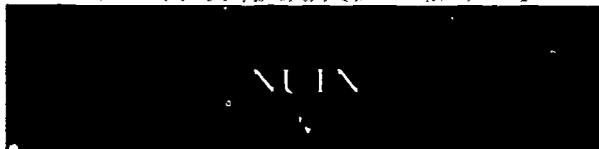
Products and/or Services:

The following reports are available through the Office of Public Affairs at the above address:

"Report of Technology Task Force" as a chapter in *Time for Results: The Governors' 1991 Report on Education*.

Currence, Cindy K., "Making Effective Educational Use of Advanced Technology," in *Supporting Works for the Task Force on Technology, Time for Results*.

Pogrow, Stanley, "Policy Recommendations for Developing Appropriate Uses of Technology in Schools," in *Supporting Works for the Task Force on Technology, Time for Results*.



National University Teleconference Network

332 Student Union Building
Oklahoma State University
Stillwater, OK 74078-0653

Contacts:

E. Marie Oberle, Director

William Dunn, Assistant Director for Services

John Labow, Assistant Director for Marketing

Myra Traynor, Member Services Coordinator

Description/Activities:

NUTN, a consortium founded in 1982, is committed to providing an efficient, electronic means of exchanging information between colleges and universities and their constituencies. NUTN serves the teleconferencing needs of higher education, and at the same time, brings the current thinking and problem-solving capabilities of over 250 member campuses directly to business sites. NUTN's product is programming developed by both members and external groups. Annually, the Network offers more than 100 live, interactive video teleconferences (many of them free of charge) designed for colleges and universities, and for business and industry.

Products and/or Services:

Higher education programs are directed to all areas of the campus: student affairs, faculty and staff development, continuing education, research and instructional briefings, curriculum enrichment, and athletics. Services include training in originating, receiving, and marketing of

teleconferences, consultation in program development, marketing, and equipment purchase, turnkey production and distribution of teleconferences, market surveys, and site brokering.

OERI

Office of Educational Research and Improvement (OERI)

United States Department of Education
555 New Jersey Avenue, N.W.
Washington, D.C. 20208

Contacts (Selected):

Dr. Frank B. Withrow, Team Leader
Star Schools Program
202-357-6200

Ram Singh, OERI Monitor for
Bank Street Technical Center
202-357-6026

Information and Statistics
1-800-424-1616

ACCESS ERIC
1-800-USE-ERIC

Office of Research
202-357-6079

Programs for the Improvement of Practice
202-357-6164

Electronic Bulletin Board
1-800-222-4922

(In the District of Columbia:
202-629-9853 or 202-357-6011, -6012)

Description/Activities:

The Office of Educational Research and Improvement (OERI) was established by Congress in 1979 and was mandated to support and coordinate federal programs and activities relating to educational research, development, demonstration, dissemination, evaluation, and assessment. Since that time, OERI has supported hundreds of projects and studies concerned with educational technology and telecommunications.

Products and/or Services:

OERI is currently supporting a number of national and regional projects that involve

research and development activities associated with applications of educational technology. The **Star Schools Program**, authorized in 1988, exemplifies the largest current demonstration effort in OERI involving technology. Four two-year grants are supporting satellite-delivered instruction to thousands of students in about 40 states.

The **Center on Technology in Education**, at the Bank Street College in New York City, is conducting research on the application of instructional technology and on the implications of technology in various types of school settings. From 1982 to 1988, the **Educational Technology Center** at Harvard University provided numerous reports and findings on the role and capabilities of technology-based programs. Much of the work in the 20 other **research and development centers**, supported by OERI, is addressing the effects of computers in school and college settings. For example, the center at the University of Michigan on postsecondary teaching and learning is examining the use of computers in a variety of different collegiate settings, and how "electronic classrooms" operate. The center at Teachers College, Columbia University, is conducting studies on relationships between the technical skills required for a changing work force and the skills needed for school work. Several centers are reporting findings on the role of technology in the teaching of reading, writing, math, and science learning.

Further, the **regional educational laboratories** are conducting an equal, if not greater, number of projects relating to educational technology than the R&D centers. Many of the laboratories' technology projects are demonstrating opportunities for providing resources to rural isolated schools. The Northwest Regional Educational Laboratory in Oregon is demonstrating the use of electronic networks to share information on educational practices with schools throughout the region. The Southwest Educational Development Laboratory in Texas has sponsored a five-state consortium to promote more effective applications of educational technology. All nine regional laboratories and most of the 19 national centers represent important sources of information on uses of computers and related electronic tools.

PBS Elementary/Secondary Service

1320 Braddock Place
 Alexandria, VA 22314
 (703) 739-5038 or (701) 739-0775 (facsimile)

Contacts:

Dee Brock, Senior Vice President
 PBS Education

Chet Tomczyk, Director
 PBS Elementary/Secondary Service

Joan Katz, Associate Director

Francis Thompson, Associate Director
 Marketing

Michelle Ward, Communications Associate

Steve Sherman, Research Associate

Description/Activities:

The PBS Elementary/Secondary Service (ESS) acquires and distributes high quality instructional television programs for classroom use in grades K-12; provides professional development programs for teachers, administrators, and other educational professionals; supports and provides electronic and print information services for and about public television and education; serves as a national advocate for the use of technologies for learning in the nation's elementary and secondary schools; and works with the other national and regional organizations to track developments in national policy for the educational television community.

Products and/or Services:

Programming for School Use, Grades K-12:

The PBS Elementary/Secondary Service acquires and distributes both free and fee programming for use in grades K-12. Curriculum areas for this programming include art education, math, science, medieval history, constitutional history, social skills, and foreign languages. Many of the series are closed captioned for the hearing impaired. Full descriptions of the series, along with important information about rights, relating readings, and ancillary materials, are included in the annual *School Programming Catalog* distributed by ESS. Among the series distributed by ESS are the following: *Castle*, *Cathedral*, *Voyage of the MIMI*, *The Second Voyage of the MIMI*, *France-TV Magazine*,

Spacewatch, *The Big A*, *Challenge of the Unknown*, *Equal Justice under Law*, *K.I.D.S.*, *Universe & I*, *Growing Up! Growing Older*, *Eat Well, Be Well*, *Walking with Grandfather*, *The World's Largest Concert*, *Spaces*, *Y.E.S., Inc.*, *Somebody Else's Place*, and *Tele Revista-Hispanica*.

Professional Development Teleconferences:

One of the most urgent needs within the education community today is for professional development opportunities for principals, teachers, and other school personnel. To address this need, the PBS Elementary/Secondary Service works with a number of education partners to develop and provide convenient opportunities for school professionals to update their skills and gain access to information about the latest pedagogical strategies and learning research. Among the professional teleconferences offered for during 1990 are *Building Communities for Effective Schools*, *Re: Learning: From the Schoolhouse to the Statehouse*, *Restructuring to Promote Learning in America's Schools: A Call to Action* (a nine-part telecourse), *What of the Future?: Facing a Literary Crisis in America*, and *Developing School/Business Partnerships to Improve Science Education*.

PBS Education Clearinghouse: Currently in development, the PBS Education Clearinghouse will serve as a center for collecting and distributing information and conducting research on the instructional uses and potential of video technologies. To date, the Clearinghouse has conducted two original surveys: a survey of public television stations' involvement in instructional services and a survey of the over 1,000 U.S. school districts with satellite dishes to ascertain their present uses and future needs for this technology. Further, the Clearinghouse has already distributed several publications and reports.

Learning File: Distributed by the Education Clearinghouse, the *Learning File* is a collection of resources serving the information needs of those who advocate, produce, distribute, and utilize television and related technologies to meet the learning needs of children and youth. A quarterly publication, the *Learning File* includes data from research studies, reports from exemplary programs, articles by national leaders and local practitioners, and other materials collected by PBS from across the country. It is available as a yearly subscription for professionals in the field of education and instructional technologies. (Cost: \$100/non-

profit organizations and \$200/commercial organizations.)

Using Instructional Television in the Classroom: The Principal's Agenda: Produced by KQED, this publication outlines the principal's role in the effective classroom use of educational video. ESS secured the right to distribute the booklet to stations as an early Clearinghouse product. It is now available, for a fee, through ESS, to educators and providers of instructional media as ASCII file text on either an IBM or Macintosh disk. The booklet may be adapted for local use. (Cost: \$10.00, check or money order only.)

Copyright: Staying Within the Law: ESS commissioned this booklet, with financial assistance from CPB, to help educators use, not abuse television programming. The booklet outlines copyright laws as they pertain to the use and off-air recordings of television programming by schools. (Cost: \$7.50, check or money order only.)

Tune In Guides: The PBS *Tune In Guides*, distributed each fall and winter season to public television stations nationwide, are designed to help viewers connect exciting PBS primetime programming with activities and viewing tips for use in homes, schools, and libraries. The "Tune In Guides" may be customized with station logos and specific schedule information for distribution to local schools, libraries, station members, and newspapers. They provide series descriptions, program titles, target age levels, information about recording rights and related educational materials (such as teachers' guides, related readings, etc.), and viewing tips that will allow families, teachers, and librarians to plan activities and assignments using the programs as a base. (Contact your local public television station for information about guides available for your viewing area.)

Tools for Promotion, Awareness, and Advocacy: A descriptive list of video, print, and other materials and projects available free or at very low cost to assist public television and other providers of instructional technologies in promoting their use. (Self-addressed 9x12" envelope with \$1.05 postage required.)

PSSC

Public Service Satellite Commission

600 Maryland Avenue, SW
Suite 220
Washington, DC 20024
(202) 863-0890

Contacts:

Dr. Louis A. Bransford, President

Sylvia M. Delafield, Membership Coordinator

Description/Activities:

The Public Service Satellite Consortium (PSSC) is a membership organization representing approximately 100 nonprofit and corporate users of telecommunications technologies. PSSC serves as a clearinghouse for telecommunications-related information, particularly as it relates to the public service sector. Its mission is to facilitate timely and appropriate applications of telecommunications technology in the public interest.

Products and/or Services:

PSSC publishes a bi-monthly newsletter, conducts regular information forums on telecommunications issues, and offers a wide range of consulting services, such as needs assessments, market research, teleconferencing planning and implementation, technical specifications, and systems integration. TEACCO, a wholly owned for-profit subsidiary, provides audioconferencing services. PSSC's National Center for Telecommunications and Information Policy addresses policy-related issues, particularly as they affect the public service sector. Customized educational and training seminars and workshops are offered to clients and members. PSSC holds several conferences a year that focus on timely telecommunications applications and issues.

RCEI

Regional Consortium for Education and Technology

Department of Elementary and Secondary Education

13480 South Outer Forty Road
Chesterfield, MO 63017
(314) 851-0085

Contact:

Dr. Carl Hoagland, Executive Director

Description/Activities:

Provides leadership and support of technology in the classroom and the office with staff development, technical services, and sales to school districts, universities, businesses, and non-profit organizations.

Products and/or Services:

Provides numerous workshops and conferences including a major annual convention. Also provides purchasing agreements for cooperating organizations, consultation assistance, and repair service. A large software preview center is maintained.



RITC

Regional Instructional Television Consortium

Region X Education Service Center
400 E. Spring Valley Road
Richardson, TX 75080
(214) 231-6301

Contact:

Gary Haseloff
Texas Education Agency
Division of Educational Technology
1701 N. Congress Avenue
Austin, TX 78701
(512) 463-9087

Description/Activities:

RITC is a four-channel ITFS/cable network serving over 300 public school campuses in a multitude of school districts in the area around Dallas/Fort Worth. Supplementary ITV, distance learning credit courses, teacher inservice and administrator delivered. The consortium maintains its own studio and ITFS headend, and, via contract with multiple metropolitan commercial cable TV companies, it interconnects to cable headends, thence to schools and homes.

Products and/or Services:

Instructional television programming for K-12 students is a major product on the four channels. However, satellite-imported teacher training and student credit courses are also delivered.



SERC

Satellite Educational Resources Consortium

(Headquarters: Columbia, SC)
Texas Partners: Texas Education Agency
and Texas Public Broadcasting

Contacts:

Gail Arnall
SERC, Box 441086
Ft. Washington, MD 20744
(301) 292-8602

Linda Schmidt, Director
Instructional Television
KLRU-TV
P.O. Box 7158
Austin, TX 78713
(512) 471-4811

Gary Haseloff
Texas Education Agency
Division of Educational Technology
1701 N. Congress Avenue
Austin, TX 78701
(512) 463-9087

Description/Activities:

SERC is a satellite-based delivery system for distance learning via one-way video and two-way audio. Texas as a partner has responsibility for coordination and marketing within the state. Texas Public Broadcasters are the primary mechanism for coordination of services to school and other user sites.

Products and/or Services:

Student K-12 credit courses are offered to sites in over 18 states. SERC is a recipient of Federal Star Schools funding. Texas has about 12 public school-user sites currently, with 200 sites projected over the next four years. In addition to audio talk-back capabilities, sites can be equipped with keypad response devices to facilitate student-to-teacher communications.

School District of Philadelphia

School District of Philadelphia

734 Schuylkill Avenue - 4th Floor
Philadelphia, PA 19146
(215) 875-3781

Contact:

Dr. Bernard Solomon, Director
Instructional Television, Radio, Cable TV
& Audio Visual Services.

Description:

The Division of Cable, Radio, and Television is responsible for the coordination of production, implementation, supervision, and evaluation of all aspects of cable, radio, and television for the school district. These responsibilities include programming of cable television and developing and producing videotapes for cablecast; research, development, and growth of use of cable television; a wide spectrum of activities using radio and television in the improvement of instruction, staff, and program innovation and development; operation of a videocassette library; and evaluation of radio and television programs. This activity administers the Television Reading Program, which uses television to improve basic skills in reading fundamentals and the Video Que Project (funded under ECIA Chapter 2) which develops the second sound track on pre-recorded video-cassettes for use in the instructional program and for staff development.

SNET

SNET

227 Church Street
New Haven, CT 06506
(203) 771-3114

Contact:

Kathleen Bucky

Description/Activities:

Telephone company.

Products and/or Services:

Pilot projects using fiber optics, commissioned video, voice messaging, and databases in conjunction with the Connecticut State Department of Education.

Star Schools Program

Star Schools Program

Office of Educational Research
and Improvement (OERI)
United States Department of Education
555 New Jersey Ave., N.W.
Washington, D.C. 20208

Contact:

Dr. Frank B. Withrow, Team Leader
Star Schools Program
202-357-6200

Description/Activities:

Public Law 100-297 mandated the creation of the Star Schools Program to expand educational opportunities to elementary and secondary students in isolated, small, and disadvantaged schools in the United States. The primary objective of the program is to provide educational opportunities in mathematics, science, and foreign language instruction for students who would not otherwise be able to enroll in such classes.

In September 1988 the U.S. Department of Education awarded a total of \$19.1 million to four geographically dispersed distance learning demonstration projects, each of which focuses on direct student instruction and teacher training. Grantees can work with local school districts to provide the equipment needed for distance learning. This includes the installation of satellite dishes, television monitors, computers, printers, VCRs, and telephones. Grantees can also increase the partnership's ability to uplink and originate programs.

The four current grantees, who are listed in separate entries within this guide, are the Midlands Consortium (Stillwater, OK), TI-IN United Star Network (San Antonio, TX), Satellite Educational Resource Consortium (SERC) (Columbia, SC, and Fort Washington, MD), and Technical Education Research Center (TERC) (Cambridge, MA).

Products and/or Services:

Between 12,000 and 15,000 students in 40 states were scheduled to be enrolled in high school courses through distance learning during the school year 1989-90. These students are learning Japanese, Russian, German, French, Spanish, and Latin. They are also enrolled in science and mathematics courses. Physics, chemistry, biology, algebra, geometry, trigonometry, and calculus are being taught through satellite education. Real science experiments in radon measurements, weather data, and survey technologies are available to countless students across the nation through Star School projects. The students are from traditionally underserved populations: many from small rural communities, minorities, and students from poor socioeconomic backgrounds. Some rural and isolated school districts have fewer than 100 students in the entire school system. Distance learning brings equal access and choice to these students regardless of where they live.

Three of the current grantees feature one-way television via satellites and feedback from the students through telephone or via computer systems. The current grantees will install slightly more than 1,000 new earth stations or downlinks into schools in 40 states. They will also expand their abilities to originate programs from a number of uplink sites across the nation from California to North Carolina. The three satellite grantees will have an installed base of approximately 2,500 downlinks. The fourth grant is a computer-based hands-on science experience-based program administered through the Technical Education Research Center. This program enables students and teachers to share with real scientists experiments they conduct and to share data via computer interactions with other students across the nation. Ten science modules will be developed under this project. Other funding has extended this program to other nations around the world, including the USSR, so that the databases will include international as well as national data. Unlike the other three grantees, this project does not provide complete high school courses. There are a number of teacher training programs that assist the teachers in understanding how to organize their classes and participate in computer-based hands-on experimentation. Through the electronic mail service a number of real science mentors are available to students for contact and idea exchange.

Satellite Educational Resource Consortium (SERC) was awarded \$5.6 million in FY88 and \$4.1 million in FY89. This is a project that combines the management resources of the Chief State School Officer and the Chief Public Television Administrator in each of the 20 states that form the partnership. This project provides live interactive direct instruction through satellite distribution to high school students. These are full credit courses with high school approval. In addition there will be teacher training and staff development programs. Among other programs will be the development of seminars from the Fairfax County Public Schools in Fairfax, Virginia. The SERC program schedule provides approximately 2,000 live interactive hours of instruction. Feedback is through telephone, computer, and keypad technologies. They are also experimenting with the use of voice mail for feedback with students. Southern Education Communication Association of Columbia, SC, is the fiscal agent and management partner in this consortium. For further information on this program contact Skip Hinton, Director, Star Schools Project SECA, 2628 Millwood Ave., P.O. Box 50,008, Columbia, SC 29250 (803-799-5517); Dr. Gail Arnall, SERC Project Manager, P.O. Box 441086, Fort Washington, MD 20744 (301-292-8602); or OERI/PIP Project Officer Ola Clarke (202-357-6187). See also "Satellite Educational Resource Consortium (SERC)" in the alphabetical listing within this guide.

TI-IN United Star Network, one of the four grantees, was awarded \$5.6 million in FY88 and \$4.2 million in FY89. TI-IN Network Inc. is the prime partner in this grant and is responsible for fiscal activities and overall management of the Star Schools project. Partners include: North Carolina Department of Public Instruction; ESC Region 20, Texas Education Agency; Western Illinois University; Illinois State Board of Education; California State University at Chico; University of Alabama at Tuscaloosa; and Mississippi State University. A total of 619 hours of high school instruction were developed and delivered in Star School sites including 18 on Indian reservations in 1988-89. A total of 1,400 hours of student and teacher materials were scheduled to be developed in 1989-90. Students and teachers communicate using automatic talkback systems and students use electronic writing tablets. Three hundred sixteen Chapter 1 schools in 19 states were participating in this program. Teachers have access to college credit courses and over 400 hours of staff develop-

ment. An inservice training series entitled *PARTNERS in Professional Growth*, designed to bridge the gap between academic training and the practical realities of daily classroom teaching, will be offered from California State University at Chico. A total of 23 academic high school courses is offered. For further information on this program contact Dr. Pamela Pease (512-490-3900), Lloyd Otterman, CEO (512-490-3900), or OERI/PIP Project Officer Cheryl Garnette (202-357-6116). See also "TI-IN Network" in the alphabetical listing within this guide.

TECC

Teacher Education and Computer Center

909 West Main Road
Middletown, RI 02840
(401) 849-5952 or (401) 847-1243

Contact:

Joan Fletcher, Executive Director

Description/Activities:

The TECC is a support group for education in the state of Rhode Island. Its purpose is to develop and provide training programs and on-site services to improve curriculum content and instruction in K-12 classrooms through the use of technology.

Products and/or Services:

TECC has organized training seminars, helped to coordinate national pilot programs in the state, and coordinated business services and equipment with schools in the state. It has consulted with schools on a variety of technology projects. It has Apple IIGS computers that can be made available, on a rental basis, to schools in Rhode Island. Plans in the near future to have a software library accessible to teachers around the state.

TCSE

Technology Center for Special Education

University of Missouri-Kansas City
5100 Rockhill Road
Kansas City, MO 64110
(816) 276-1040

Contact:

Dr. Valita Marshall, Director

Description/Activities:

Provides staff development and technical assistance to special education teachers and administrators regarding hardware and software availability and utilization. Major funding is provided by the Missouri Department of Elementary and Secondary Education.

Products and/or Services:

Has established large databases regarding such things as model programs, hardware tutorials, adaptive devices, and vocational tutorials. Maintains a toll-free number for special education personnel in Missouri schools. Staff members provide consultant services to the various regions of the state.

TIE

Technology In Education

1 Concourse Drive
Rapid City, SD 57701
(605) 394-1876

Contacts:

James D. Parry, Director

Harris B. Haupt, Telecommunications Director

Bonnie Christensen, Education Specialist

Arlys Peterson, Ed.D., Education Specialist

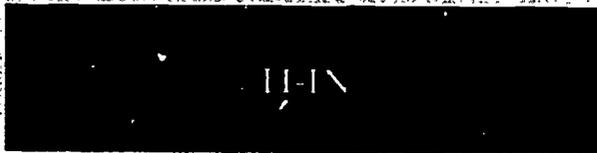
Description/Activities:

TIE is a statewide consortium which provides a broad range of educational technology information and assistance to schools, parents, and other educational agencies.

Products and/or Services:

Computer software/hardware preview center and lending library services, information dissemination including inservice presentations on computer selection and utilization, educational videodisc, CD-ROM, telecommunications, interactive television, and adaptive devices to assist the handicapped, scheduling of instructional television (ITV) for statewide broadcast, planning assistance to schools for future technology utilization, proctor for statewide math/science/technology bulletin board system

(BBS), newsletter to educators, and annual technology conference.



TI-IN Network

1000 Central Parkway North, Suite 190 B
San Antonio, TX 78232

Contacts:

Lloyd Otterman, Chief Executive
(512) 490-3900

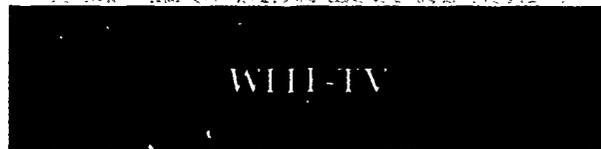
Gary Haseloff
Texas Education Agency
1701 N. Congress Avenue
Austin, TX 78701
(512) 463-9087

Description/Activities:

This privately held company delivers one-way television, two-way audio via satellite nationwide to educational institution subscribers. It contracts with selected educational institutions to produce most of its programming. Contracts with user-schools usually involve equipment leases and installations of satellite receiving and phone/printer equipment. Printed hard-copy is also delivered electronically to user sites. The user talk-back system uses automatic dialing and portable phone sets.

Products and/or Services:

A variety of distance learning credit courses K-12, teacher inservice, and educator orientations are offered to subscribers on an annual contract as well as for certain one-time events. TI-IN also is a recipient of Federal Star Schools funding and thus has developed some courses and services specific to that grant.



WITF Television

1982 Locust Lane
Harrisburg, PA 17109
(717) 236-6000, ext. 222

Contact:

Nancy Aponick
ITV Coordinator/Adult Learning Liaison

Description/Activities:

Works with both public and private schools to provide educational material via broadcast, early morning distribution, and duplication.

Products and/or Services:

Educational video material, teachers' guides, curriculum updates, technical assistance, special teleconferences for education, and other special projects.

STATE DEPARTMENTS OF EDUCATION

ALABAMA

Alabama State Department of Education
Gordon Persons Blvd.
Montgomery, AL 36130
(205) 242-5574

Contact:

Dr. Ron Wright, Education Technology Specialist

Description/Activities:

Computer education and distance learning.

Products and/or Services:

Inservice, institutional member of MECC, technical assistance, and computer education curriculum.

ALASKA

Alaska Department of Education
P.O. Box F
Juneau, AK 99811
(907) 465-2824

Contact:

Toni Kahklen-Jones, Director
Education Program Support
(907) 465-2830

AMERICAN SAMOA

Department of Education
American Samoa 96799
(684) 485-3000

Contact:

Russell Aab, Math/Computer Coordinator

ARKANSAS

Arkansas Department of Education
IMPAC Learning Systems, Inc.
National Old Line Building, Room 122
Sixth & Woodlane Streets
Little Rock, AR 72201

Contact:

Dr. Cecil McDermott, IMPAC Project Director
(501) 371-1401

Description/Activities:

IMPAC-sponsored CMI/CAI Basic Skills Program—Grades 4-8; school district-sponsored CMI/CAI Basic Skills Projects - Grades 4-8; software dissemination to all districts; hardware purchase program to all districts; program services to vocational education; software development/state license contracts; program services to Satellite Based Long Distance Learning Projects; research and development; cost effectiveness studies; computer and software maintenance in all IMPAC programs; technical assistance in design and electrical.

ARIZONA

Arizona Department of Education
1535 W. Jefferson Street
Phoenix, AZ 85007
(602) 542-4361

Contacts:

Veronica Marshall, Media Services
(602) 542-5021

Kathryn Kilroy, Director of Communications
(602) 542-5040

CALIFORNIA

California State Department of Education

P.O. Box 944272
721 Capitol Mall
Sacramento, CA 94244-2720
(916) 324-1961

Contact:

Donovan Merck, Director
Office of Educational Technology

Marleen Allin, Consultant, Office of
Educational Technology
(916) 324-8000

The California Technology Project

P.O. Box 3842
Seal Beach, CA 90740-7842
(213) 985-9631

Contact:

Dr. Craig Blurton, Project Director

John Riley, Assistant Director (associated with
the Alameda County Office of Education)

Description/Activities:

In collaboration with the California State Department of Education, the California State University has launched this new project to provide aid, information, assistance to K-12 teachers, administrators, and teacher educators interested in the uses of technology to improve curriculum and instruction. Taking as its motto "Pulling Together the Pieces," the California Technology Project (CTP) will facilitate the delivery of important new services throughout the state in three major areas affecting the use of technology in schools: data collection, information dissemination, and staff development. As its primary strategy, the CTP is fostering the development of collaborative partnerships between educators from all segments of the educational community, and the increased involvement of business and industry in the uses of technology in educational settings.

Data Collection: As part of its mission, the CTP will serve as a mechanism to collate, analyze, report, and store data describing technology use in K-12 schools and preservice teacher preparation programs throughout California. CTP's Assessment Team, under the direction of Dr. Robert Main of California State University,

Chico, has recently undertaken three major surveys, the first designed to provide an array of information concerning the quantity, kinds, locations, and uses of technology currently in California classrooms, the second (being conducted with the assistance of John Riley), to gather information from the approximately 500 schools that received local assistance program adoption/expansion grants during the last cycle under AB803, and the third (conducted with the assistance of Dr. Hal Jonsson of San Francisco State University), sent to all (70+) of the institutions of higher education in California with accredited teacher preparation programs, to identify specialized certificate and degree programs focusing on the uses of technology in education.

Distance Learning: The CTP Distance Learning Task Force, a blue ribbon panel of highly respected leaders in distance learning within California representing all segments of the educational community under the direction of Dr. Robert Threlkeld of Cal Poly Pomona, is drafting a report describing the current status of distance learning initiatives within the state. The Task Force's report will include a description of program sources, distribution networks, and consumers, and will include policy recommendations of the group to help advance the agenda in this critical arena. The CTP is also working closely with the California Literature, Mathematics, and Writing Projects to collect information about resources and personnel available throughout these projects to help educators interested in using technology to enhance the delivery of these criteria. The CTP Consortia are conducting resource identification surveys of the participating local education agencies (LEAs) to create regional directories of staff development personnel and facilities available to the consortia membership for consulting, technical assistance, and instruction in the uses of technology in educational settings. The data and analyses will be made available by both printed and electronic means.

Staff Development: The single most important effort undertaken by the CTP to date has been the establishment and facilitation of regional staff development consortia to address technology-related issues. These consortia, of which there are presently twelve, are locally governed, collaborative efforts of educators from schools, school districts, county offices of education, curriculum projects, colleges, universities, and business and industry. Each consortium has

independently drafted a set of bylaws, established a governance committee that includes a coordinator, and selected an LEA to serve as fiscal agent. The CTP office, using a curriculum developed by "CTP Scholars" that features the uses of technology in literature and social science instruction, is providing each of the consortia with instructional materials and plans to develop a "Technology Leadership Academy." Also, the CTP Assessment Team is currently developing a "Technology Program Evaluator's Workshop" with supporting handbook which will be made available to the CTP Consortia for dissemination in the spring of 1990. This workshop will provide educators with information about how to develop an effective and valid evaluation component for programs implementing technology in the classroom. In addition to the activities of the Consortia, the CTP is sponsoring the development and pilot testing of technology-related instructional materials by the South Coast Writing Project and the San Joaquin Valley Mathematics Project for use in their staff development activities.

Products and/or Services:

The information gathered by the CTP, as well as information from other education organizations and agencies (e.g., model technology schools, professional organizations, business and industry) concerned with the uses of instructional technology, will be disseminated by a variety of means including print and electronic media. The CTP recently instituted the "Technology Resources in Education" (TRIE) electronic information service. TRIE makes electronic mail, computer conferencing, information bulletin boards, and databases available to educators throughout California who have personal computers and modems. Four databases are currently under development at TRIE. The first contains information about educators available throughout California with the experience and expertise to offer staff development related to the educational uses of technology. This database is currently available. The second will provide access to the data collected by the various CTP surveys and will also provide bibliographic abstracts of research projects related to technology use in schools. The third database will offer review and evaluation information about instructional computer software, videotape, and video discs. The last of the TRIE databases will provide product review information about hardware such as video cameras, classroom computers, and optical data storage devices. The TRIE services above are

accessible by means of a local telephone call to any of the nineteen CSU campuses and are offered to educators and educational organizations at no charge. Beginning in January 1990, the CTP will host three satellite conferences annually, paralleling the publication of the CTP quarterly (see below) entitled *The CTP Technology in Education Update*. Each of these broadcasts will focus on a specific issue, providing up-to-date information concerning topics such as legislative initiatives, grant opportunities, and model uses of technology.

The CTP Quarterly

Contact:

Steven Pinney, Editor
The CTP Quarterly, a journal highlighting educators and programs making effective uses of technology in support of education, has been available since September 1989. It will be published three times annually, and will focus on a specific topic in each issue. For more information, contact Dr. Craig Blurton or the Editor at the California Technology Project address above.

California Instructional Television Regional Agencies

Contacts:

Jacqui Martin, Coordinator, NITAC
Instructional Media Center
Shasta County Superintendent of Schools
1644 Magnolia Avenue
Redding, CA 96001
(916) 244-4600, ext. 273

Milton Chen, Director of Instructional Services
KQED-ITV
(see KQED-ITV in Resource Organizations listing)

William Brady, Coordinator, ITV Service
Santa Clara County
Santa Clara County Superintendent of Schools
100 Skyport Drive
San Jose, CA 95115
(408) 453-6668

Phoebe Webb, Project Director, RETAC
Los Angeles County Superintendent of Schools
9300 East Imperial Highway
Downey, CA 90242-2890
(213) 922-6216

Dr. Patricia Marshall
Administrative Coordinator
KLCS - Channel 58
Los Angeles Unified School District
1061 West Temple Street
Los Angeles, CA 90012
(213) 625-6966/6953

Elaine Danny, Director
KLCS ITV Programs
(213) 625-6958

Mark Gorelczenko
Director of Instructional Television
TOC/KOCE, KOCE-TV
P.O. Box 2476
Huntington Beach, CA 92647
(714) 895-5623

Sandy Zevely, ITV Coordinator
San Diego County Superintendent of Schools
6401 Linda Vista Road
San Diego, CA 92111
(619) 292-3725

Description/Activities:

Instructional television funding has been focused in three areas:

1. Providing instructional programs to teachers via broadcast and videocassette tape: regional agencies coordinate broadcast services with PBS stations and county educational media centers, along with teachers' guides and program schedules.
2. Acquiring program licenses: selections are made locally by teachers and curriculum specialists within state priorities. Over 40 high quality instructional series have been acquired at lowest price with statewide accessibility.
3. Staff development training: only source of training for teachers in the effective integration of instructional television into their curriculums.

California Model Technology Schools

Contacts:

Gary Carnow, Project Director
Alhambra (818-308-2622)

Harvey Barnett, Project Director
Cupertino/Fremont
(408-252-3000)

Richard Miller, Project Director
Hueneme (805-488-3588)

Helen Kelly, Project Director
Los Angeles (213-560-2481)

Gerry Montgomery, Project Director, Monterey
(408-899-1517)

Barbara Warner, Project Director
Sacramento (916-454-8669)

Description/Activities:

One of the major reasons for funding Model Technology School (MTS) complexes was to create models of technology use and to research the impact that the use of technology has on learning as well as on other aspects of the educational environment. The hope is that, given a long enough life, these MTS projects will produce conclusive data about how effective and efficient a technology-rich learning environment can be. Such information would be invaluable for all decision-makers from the classroom to the Governor's office. At some later date, educators will be able to visit the sites and consider adopting or adapting the components of these projects to meet needs at their own schools. Six MTS project sites have been funded. Each site is committed to developing and utilizing instructional strategies which will "model" the curriculum frameworks, and to using technology in all aspects of school operations with emphasis on student learning experiences. Choices of the technologies used are locally determined and based on student needs, prior experience, research findings, and the like. In addition, most sites are focusing initially on English-language arts instruction with emphasis on communication skills and writing across the curriculum, striving to find the best resources and strategies to improve higher order thinking skills, using, in varying degrees, collaborative learning strategies, and developing improved methods for assessing the impact of their instructional strategies. Although all six sites are concentrating on similar interventions, their methods of implementation, degrees of emphasis, etc., vary considerably because of the schools' organization, the districts' philosophies, the characteristics of students and staff, and the schools' individual "change" strategies. Descriptions of the six sites follow.

Alhambra: A major focus of this project is "student centeredness," which refers to the power of choice, self-control, and self-monitoring that students apply to their education. In line with that, banks of computers are located in the elementary site's hallways for student use with a shared responsibility for security and maintenance being assumed by the student body. In addition, a copy machine has been installed for use by students only for their productions.

Cupertino/Fremont: Teacher access is the emphasis of this project. Each teacher has access to a technology teaching station with appropriate equipment. Teachers develop a Personal Learning Plan that forms the basis for the purchase of hardware, software, and staff development activities. An enhanced media center/library and technology lab provide technology resources to students.

Hueneme: The Hueneme Model uses an interactive teaching and integrated learning system emphasizing individualized instruction, tutorials, cues and explanations, programmed instruction, and mastery learning. Initially, the curriculum focus will be on science instruction at the 8th grade level. Then, the program will be expanded to English-language arts, math, and the history-social sciences. Once the program is implemented at the 8th grade level, the project will address the 7th grade and then the other elementary grades.

Los Angeles: English-language arts is the curriculum area of concentration for this project. The student population is over 90 percent Hispanic with a high incidence of LES/LEP students. Due to the large school population in this project, only 30 to 40 teachers at each site are involved. The teachers, once they are trained, develop a plan calling for specific technologies, materials, and instructional strategies which are in line with state frameworks, school goals, and student needs. The project is in the process of developing a community outreach program through the use of technology.

Monterey: The Monterey Model is a child-centered project emphasizing the creation of a technology-rich environment where students are developing the ability to be "proactive" or self-regulated learners. Teachers take part in a "planned" decision-making role in this project, which results in individuals or small groups developing and implementing technology-based instruction.

Sacramento: The curricular thrusts of the Sacramento Project are communication skills and critical thinking. Because writing skills are key to success in every subject, emphasis is being placed on writing, with word processing playing a major role. The project also emphasizes the networking of technology. Direction for this project is based on the district's experiences with their "classroom of the future."

PrevNet Telecommunications System

Sacramento County Office of Education
9738 Lincoln Village Drive
Sacramento, CA 95827
(916) 366-4418
(Telephone Computer Access Number: (916) 366-4375)

Contact:

Carolyn Whitwright, System Administrator

Description/Activities:

PrevNet serves as the Resource Services System of the California State Department of Education and is administered by the Prevention Center, Sacramento County Office of Education. Staffed by an experienced team of prevention specialists, PrevNet utilizes the services of technical assistance consultants from throughout California. The staff includes a program manager, a coordinator of staff development, a research analyst, a research assistant, a technical assistant, and a telecommunications consultant. PrevNet provides services primarily to county offices of education and school districts and works with parent groups and others in prevention and education. The system is funded through a contract from the State Department of Education and monitored by its Office of Critical Health Initiatives (contact: Robert Ryan, P.O. Box 944272, Sacramento, CA 94244-2720, (916) 322-4018). Funding comes from Federal Drug-Free Schools legislation of 1986.

Products and/or Services:

Colleague directories include listings of State Department of Education contacts, district and county offices of education prevention coordinators, Attorney General's Challenge Series participants, Office of Criminal Justice Planning Drug Suppression Grant recipients, and many more. Research abstracts include information about "what works and what doesn't" along with statistics, reports, and recommendations. An Events Calendar covers contents, presenters, dates, times, locations, and costs of a variety of conferences, workshops, and training sessions. Forums (both open and group-specific) provide information on legislation, funding, publications, and activities, and share ideas and information with other educators and prevention specialists. Information is accessible by phone via use of a microcomputer, communications software, and modem. Lines are open 24 hours a day, seven days a week. PrevNet also offers direct communication through its electronic mail system.

COLORADO

Colorado Department of Education
201 East Colfax Avenue
Denver, CO 80203
(303) 866-6856

Contacts:

Jerry Scezney, Senior Consultant
Education Technology

Pat McCartney, Senior Technical Consultant

CONNECTICUT

Connecticut State Department of Education
Box 2219
Hartford, CT 06145
(203) 566-4111

Contact:

Robert Hale, Coordinator
Learning Resources & Technology Unit

Description/Activities:

State Education Agency

Products and/or Services:

Guides; professional services related to educational technology; cooperative projects with SNET in fiber optics, commissioned video, voice messaging, and database access.

*See also in Resource Organizations listing:

Association for Educational Communications and Technology (AECT)

SNET

Connecticut Educators Computer Association
Connecticut Educational Media Association (CEMA)

Delaware

Delaware Department of Public Instruction
P.O. Box 1402
Dover, DE 19901
(302) 736-4629

Contact:

William Geppert, State Supervisor
Mathematics
(302) 736-4885

DISTRICT OF COLUMBIA

Office of Instructional Television
District of Columbia Public Schools
North Dakota & Kansas Avenues, NW
Washington, DC 20011
(202) 576-6288

Contact:

Dr. Kyo R. Jihn, Assistant Superintendent
Educational Technology

Description/Activities:

Purchase instructional video lessons from various vendors for broadcast on instructional television fixed service (ITFS) system.

FLORIDA

Florida Department of Education
Office of Educational Technology
Knott Building
Tallahassee, FL 32399
(904) 488-0980

Contact:

David L. Brittain, Administrator

Description/Activities/Services:

Provides numerous instructional technology services to teachers, students, and state residents. For example:

The Bureau of Teacher Education operates a Summer Inservice Institute Program which offers training in such areas as computer literacy, computer assisted instruction, software exploration, specialized software usage, and computer programming;

The Curriculum Services Section (CS) provides support to school districts for the implementation of instructional technology in the curriculum subject areas;

The School Library Media Services Subsection disseminates information to school district media personnel on effective application of instructional technology in school library media centers including both online and CD-ROM databases;

The Instructional Television and Educational Materials Subsection (ITV&EM) offers services and activities designed to make ITV, audio, and microcomputer software available to teachers and students, such as preview and selection opportunities, duplication and distribution of software, and technical assistance for both engineering and management of distribution systems;

The Educational Technology Section provides, in part, monitoring services (grants, instructional technology activities in other states, and new developments in the computer industry and related fields, among others), and management, planning, and budgeting support for the **Florida Information Resource Network (FIRN)**, a multi-vendor electronic network designed to provide a data communications link to every public education institution and school in the state; and

The Office of Telecommunications (OT) runs **The Satellite Network (SATNET)**, which consists of over 40 sites in community colleges, universities, and school district offices throughout the state which serve as receiving and viewing locations for teleconferences broadcast by satellite. Technology-related services are also available which provide for the special needs of handicapped and exceptional students, and 40 computer-related courses are available at eleven colleges and universities.

The state maintains six **Regional Centers for Excellence in Mathematics, Science, Computers and Technology**, and four technology-related state associations: Florida Association for Computers in Education (Lakeland), Florida Association for Educational Data Systems (Jacksonville), Florida Association for Media in Education (Orlando), and Florida Association for Supervision and Curriculum Development (Largo). Association addresses and names of contact persons are listed in the annual publication, *Florida Computing Activities*.

Products:

Florida Computing Activities, a comprehensive guide which provides descriptions of computing activities in school districts, postsecondary institutions, and the Florida Department of Education, is updated yearly and distributed at the annual Florida Instructional Computing Conference. It is also available by writing directly to the Florida Department of Education. Included in the descriptions are summaries from the majority of the state's 67 school districts, 28 community colleges, and nine state universities. The guide also lists people designated as instructional computing contacts in the public school system. DOE-sponsored publications include *Florida Instructional Technology Services* (school-level catalog providing information on videotape and microcomputer materials available from ITV&EM Section), *Minimum Student Performance Standards for Florida Schools: Computer Literacy and Science*, *Instructional Materials for the Florida Minimum Student Performance Standards in Computer Literacy*, *MICRO* (evaluations of microcomputer software), *Parent and the Public Series* (ten brochures for parents about their children and computers), *Ed Tech News* (a bi-monthly newsletter on instructional and administrative computing for Florida educators), *Electronic Communication Devices for Visually Impaired Students*, *Computer Accessibility for the Visually Impaired*, *Computer Assisted Instruction and Support for the Handicapped*, *Instructional Technology for Florida's Exceptional Students: Microcomputer Applications*, *Instructional Technology for Florida's Exceptional Students: Software Evaluation*, *100 Exceptional Ideas for Integrating Computers into the Classroom*, *Technology Applications for the Physically Impaired and the Visually Impaired*, *Instructional Technology Training Series* (eight modules), *Instructional Software for Exceptional Students: Secondary Education*, *Instructional Materials and Software for Exceptional Students: Middle School Education*, and *IMTS Computer Software Bibliography*.



GEORGIA

Georgia Department of Education
Division of Instructional Media
2054 Twin Towers East
Atlanta, GA 30334
(404) 656-5945

Contacts:

Mr. O. Max Wilson, Division Director

Ms. Elizabeth Kirby, contact for 1 & 4
(404-656-5957)

Dr. Nancy V. Paysinger, contact for 2 & 3
(404-656-2418)

Ms. Joey Baughman, contact for 5 & 6
(404-656-5957)

Dr. Brenda Tapp, contact for 7 & 8
(404-656-5969)

Dr. Lu Penn, Technology Support Division,
contact for 9 (404-656-2435)

Mrs. Norma Spivey, contact for 10
(404-651-9406)

Description/Activities:

NSF Video Project: A video demonstration project, funded by the National Science Foundation, is being implemented by the Georgia Department of Education and the Clarke County School District. The project, designed to model effective video utilization in instruction, provides each math and science teacher with a videocassette recorder (VCR) and monitor in each classroom and an extensive collection of state-provided math and science video resources in each school media center. In addition, math and science teachers are reviewing this collection and correlating the video content to the state-mandated curriculum. These correlations will be compiled into a comprehensive video index which will also be available in each media center. The immediate accessibility and availability of equipment and resources are designed to enable teachers to easily identify and utilize video materials which meet specific instructional needs.

Microcomputer Software Consortium: Using a brokerage concept, the Division negotiates annual lease rights with volume discounts for instructional computer software. These materials are available to school systems participating in the software consortium.

Video Lessons Consortium: Using a brokerage concept, the Division negotiates annual lease rights for unlimited duplication and limited broadcast for instructional video materials which are broadcast during the summer for off-air duplication by participating systems, which may dub as many copies as they need.

Distance Learning: Georgia participates in the Satellite Educational Resources Consortium (SERC) Star Schools distance learning project which provides live, interactive instruction to students via satellite. Twenty-six Georgia schools are equipped with satellite dishes and receivers and students can take credit courses in Russian, Japanese, advanced placement (AP) economics and advanced math and science. Teachers can take college-credit courses in Teaching AP Calculus and Teaching AP Economics. In addition, Georgia delivers inservice staff development training sessions to local educators via satellite teleconferences. Other staff development workshops are available via satellite through SERC.

Block Feed of Secondary Level ITV Materials:

All new ITV series and series for grades 9-12 during the last two weeks of August and the first two weeks of September for off-air duplication by media specialists. Grades 7-8 materials are also broadcast throughout the year as part of the regular ITV schedule.

ITV Schedule Book Artwork Activity: K-12 students in Georgia submit original artwork based on an instructional television theme. Selected artwork is used on the covers and throughout the schedule book. This activity has been very successful in generating awareness and enthusiasm on the part of students for ITV services.

Project SEED (Software/Evaluation/Exchange/Dissemination): Project SEED is a collaborative effort of six southeastern state education agencies (Alabama, Florida, Georgia, Mississippi, North Carolina, and South Carolina) to evaluate K-12 educational software. Georgia has trained over 50 educators as SEED evaluators. Over 700 software packages have been evaluated during the four years of the project, which is facilitated by the Southeastern Educational Improvement Laboratory located in Research Triangle Park, NC.

The Georgia Instructional Technology Conference: The purpose of this annual conference is to provide Georgia educators with a quality learning experience through exposure to peers who are effectively using technology in instructional settings, to nationally recognized leaders in the field, and to commercial exhibits which provide information on state-of-the-art hardware, software, and uses of technology. The conference planning committee consists of Local Administration Agency, Regional Educa-

tion Service Agency, Georgia Learning Resource System, University and Department of Education personnel.

Media Management Criteria Review

Committee: An ad-hoc committee has been named to determine the functions needed for a statewide media management system that would eventually link to a statewide education network. The Division will be working with the Technology Support Division in this effort.

Resource Alignment Project: This project is developing a process by which instructional resources will be correlated with the Georgia Quality Core Curriculum objectives. The overall goal of the project is to provide teachers with information to facilitate the full implementation of the QCC objectives. The product, in its operating format, will allow a teacher to enter an objective into an electronic database to retrieve a listing of correlated resources, their location, and information about related teaching activities and learning. The product will be flexible enough to add new information on a daily basis from many different points of entry (regional education service agencies, school systems, schools, and teachers). Information on the database can be used for making decisions regarding instructional planning, purchasing, and program development. This project is an evolutionary one which will result in a product that will be constantly updated, massaged, and refined as new information becomes available.

GUAM

Department of Education

P.O. Box DE
Aguana, Guam
(808) 247-5930

Contact:

Jeffrey Shafer

HAWAII

Hawaii Department of Education
189 Lunalilo Home Road, Second Floor
Honolulu, HI 96825
(808) 395-8916

Contact:

Evelyn Horiuchi, Educational Specialist

IDAHO

Idaho Department of Education

650 West State Street
Boise, ID 83720
(208) 334-2165

Contact:

Mark Kuskie, Consultant, Education Technology

ILLINOIS

Illinois State Board of Education

100 North First Street
Springfield, IL 62777-0001
(217) 782-4321

Contact:

Dr. Ray Schaljo, Coordinator, Technical Services
(217) 782-5728

Description/Activities:

The Illinois State Board of Education has established 18 Educational Service Centers throughout the state to provide a wide range of technical assistance to schools. Services each center must provide include planning, implementation, and evaluation services necessary for the establishment of programs designed to achieve computer literacy and high-tech competency. The ESCs are directed by governing boards consisting of local educators and community members and serve the school population located within a particular geographic region of the state. Each Center is staffed by a director, professional educators, and support staff.

Products and/or Services:

Center services must include, but need not be limited to, inservice training and staff develop-

ment; use, application, and evaluation of software and hardware; technical assistance; and curriculum development; also, education for gifted children through area service centers, experimental projects, and institutes; computer technology education including the evaluation, use, and application of state-of-the-art technology in computer software; and mathematics, science and reading resources for teachers including continuing education, inservice training, and staff development. Although the programs and resources provided via the Centers vary from region to region based on local needs, each currently delivers services and activities associated with eight statewide programs: The Illinois Administrators' Academy, Learning Objectives and Student Assessment, Title II, Mathematics, Science, and Reading, Gifted Education, Technology Education, Staff Development, and Vocational Instructor Practicum.

INDIANA

Indiana Department of Education
 Center for School Improvement
 and Performance
 Instructional Technology Office
 Room 229, State House
 Indianapolis, IN 46204-2798
 (317) 232-9100

Contacts:
 Christine B. Franklin
 Instructional Technology Consultant

Mary Jo Erdberg
 Instructional Technology Coordinator
 (310) 232-9108

Description/Activities:
 The Instructional Technology Office funds demonstration projects and commissions studies to determine the best uses of technology in education. Most demonstration projects are funded in Indiana public schools and are designed to produce replicable models for dissemination to other schools. After evaluation, the most successful projects are made available for adoption by those other schools.

Products and/or Services:
Annual Report; evaluation of Self-contained Classrooms; evaluation of Model Applications of

Technology in Ten Indiana Sites; and Model Applications of Technology in Fourth Grade Classrooms.

IOWA

Iowa Department of Education
 Grimes Office Building
 Des Moines, IA 50315

Contact:
 Dr. William Lepley, Director
 Department of Education
 (515) 281-5924

Dr. Leland Tack, Division Administrator
 Accountability
 (515) 281-4835

KANSAS

Kansas State Department of Education
 120 East 10th Street
 Topeka, KS 66612
 (913) 296-3201

Contact:
 Craig Haugness
 Computer Education Specialist
 (913) 296-4946

KENTUCKY

Kentucky State Department of Education
 1825 Capitol Plaza Tower
 Frankfort, KY 40601
 (502) 564-2106

Contact:
 Lydia Sledge
 Director of Mathematics and Technology
 (502) 564-2672

LOUISIANA

Louisiana Department of Education
3455 Florida Boulevard
Baton Rouge, LA 70806
(504) 342-1809

Contact:
Barbara Andrepont, Acting Director, MIS
(504) 342-0091

MAINE

**Maine Department of Educational
& Cultural Services**
State House Station #23
Augusta, ME 04333
(207) 289-5815

Contact:
Richard K. Riley
Educational Technology Coordinator

Description/Activities:
Coordinates Department consultants in use of educational technology.

Products and/or Services:
Preview Center.

Chapter 2 Computer Resource Center
Department of Educational and Cultural Services
State House Station #23
Augusta, ME 04333
(207) 289-5815

Contacts:
Dennis Kunces, Director
Bev Dow, Administrative Assistant

Description/Activities:
State Computer Resource Center for Education in Technology provides products and information for schools: Preview Center of Educational Software; video lending library; computer book lending library; distributes public domain software; test equipment; and technology publication distribution.

Products and/or Services:

On the Road software preview, services booklet, and six activities listed above.

Micro Messenger Newsletter

(Department of Education address & telephone)

Contact:
Dennis Kunces, Editor
and Computer Consultant

Products and/or Services:

Newsletter distributed to Maine's teachers dealing with the use of technology in education, and consulting work with schools dealing with the use of computer technology within the curriculum.

**Vocational Curriculum Resource Center of
Maine**

KVVTI
P.O. Box 29, Western Avenue
Fairfield, ME 04937
(207) 453-9762

Contact:
Susan N. Donar, Director
FAX: (207) 453-7732
BBS: (207) 453-7669

Description/Activities:

The Vocational Curriculum Resource Center of Maine is a statewide instructional improvement program of the Maine Department of Educational and Cultural Services, Bureau of Adult and Secondary Vocational Education. Funded by the Carl D. Perkins Vocational Education Act, the VCRCOM is located in King Hall on the Kennebec Valley Vocational Technical Institute (KVVTI) campus in Fairfield. The Center has two full-time staff members: the project director and a secretary/assistant.

Products and/or Services:

The following services are provided for vocational educators, counselors, and administrators: Free loan of national, state, and local commercially developed curriculum materials to assist with writing and updating programs; BRS computer database searches for bibliographical information; workshops and inservices conducted on the following topics: *Services of the VCRCOM, Competency-Based Curriculum, Developing a Curriculum (DACUM), Overview for Vocational Curriculum Development*, and other timely topics; exhibit and conference displays; State of Maine curriculum dissemination; statewide newsletter (*The Curriculum*

Courier); textbook, audiovisual, computer, software, and microfiche reviews; and sex equity and special needs materials.

*See also in Resource Organizations listing:
Maine Computer Consortium

MARYLAND

Maryland State Department of Education Maryland Instruction Technology (INTEC)

11767 Bonita Avenue
Owings Mills, MD 21117
(301) 581-4101

Contacts:

Frank A. Windsor
Assistant State Superintendent

Greg Talley, Branch Chief
Instructional Technology Systems

Frank Batavick, Branch Chief
Video Services

Description/Activities:

Maryland INTEC is a division of the Maryland State Department of Education responsible for providing video and computer services to local school systems, including teacher inservice, video production, ITV utilization, technical support for both video and computer technology, and distance learning programs.

Products and/or Services:

Maryland Education Technology Network: METN is a statewide electronic communications system linking all local school systems and others in the education community—includes electronic mail, bulletin board, file transfer, and "FORUM" capabilities.

Maryland Instructional Television: MITV produces and distributes instructional television programming for use in K-12 educational programs.

Maryland Interactive Technologies: MITEC has produced a Level III interactive videodisc program called *The Business Disc*, which steps the user through the process of starting and operating a business.

MASSACHUSETTS

Massachusetts Department of Education Bureau of Educational Technologies

75 Acton Street
Arlington, MA 02174
(617) 641-3710

Contact:

Connie Louie, Technology
Information Coordinator

Susan Foote, Coordinator of
Instructional Technology

Description/Activities:

The Educational Technology Office provides educational television programs to all the schools in Massachusetts through public broadcast stations (Channel 2 and Channel 57) during the school year from 10 am to 2:30 pm; state grants to public school districts for the integration of technology into the curriculum; and information on the use of technology in the Massachusetts classroom.

Products and/or Services:

A publication entitled *Computer Software Preview Centers in Massachusetts*, available through the Bureau of Educational Technologies, lists some of the organizations in Massachusetts that provide resources for the use of computers in schools. Selected centers listed in the booklet include Bureau of Educational Technologies (BET); Chapter 1 Computer Cooperative Center (C4); Commodore Educational Resource Center; The Computer Museum; Computer Resource Collection, Mt. Everest Regional High School; Drury Senior High School; EDCO Computer Center; The Education Collaborative; French River Education Center; Greater Springfield Regional Education Center, Massachusetts Department of Education; Lesley College Academic Lab; Massachusetts Technology Center for the Visually Handicapped; Massachusetts Vocational Curriculum Resource Center; Massasoit Technology in Education, Community Service Center (M-TEC); Merrimack Education Center, Computer Center (MEC); South Coast Educational Collaborative; and Technical Education Resource Center (TERC). Six regional education centers provide technical assistance to schools in the area of educational technology. Technology assistance

includes information on funding sources, consultation on specific grant programs, identification of helpful resources, model programs, and distribution of related print information. The centers are located in West Boylston, Arlington, Middleboro, Lakeville, North Andover, North Adams, and Chicopee.

MICHIGAN

Michigan Department of Education
P.O. Box 30008
Lansing, MI 48909
(517) 373-3909

Contact:
Dr. James Phelps, Associate Superintendent
Planning and School Management

MINNESOTA

Minnesota State Department of Education
550 Cedar Street, Room 684
St. Paul MN 55101

Contact:
Dr. Gilbert Valdez, Manager
Instructional Design Section
(612) 296-4067

MISSISSIPPI

Bureau of Instructional Services
P.O. Box 771
Jackson, MS 39205
(601) 359-3778

Contact:
Dr. Donna A. Lander, Director
Bureau of Instructional Services

MISSOURI

Department of Elementary/ Secondary Education

P.O. Box 480
Jefferson City, MO 65102
(314) 751-3175

Contact:
Tom Odneal, Coordinator of Federal Programs

* See also in Resource Organizations listing:

**Education Satellite Network (ESN)
Regional Consortium for Education
and Technology (RCET)
Technology Center for Special Education**

MONTANA

Office of Public Instruction

State Capitol
Helena, MT 59620
(406) 444-4436

Contact:
Ronald Lukenbill

NEBRASKA

Nebraska Department of Education

301 Centennial Mall South
Lincoln, NE 68509
(402) 471-4113

Contact:
Melodee Landis, Director
Technology Center

Description/Activities:

Satellite Educational Resources Consortium (SERC) was formed in the spring of 1988. The purpose of this spinoff of the Federal Star School Program is to meet teacher shortages in critical subject areas. The partnership is formed between local schools in eighteen states, their

departments of education, and public broadcasting and four individual public broadcasting stations. In the spring of 1989 SERC piloted *An Introduction to Japanese; Probability and Statistics; Eight Science Seminars on Current Issues; Teacher Training for the Teaching of AP Calculus; and A Series of Teaching Seminars on Current Issues*. The 1989-90 year will see programs in *Japanese I; Russian I; Discrete Math; AP Economics; and Teacher Training for Algebra I, Teacher Seminars, Inquiry Based Science, and Telecommunications in the Classroom*. Through support funding from SERC, Nebraska will have 29 educational sites participating in various programs. The classroom programs are interactive through a telephone bridge.

Products and/or Services:

Satellite delivery of critical subject area content. Programs two-way interactive through telephone bridging.

Contact:

Merle Rudebusch, Consultant
Vocational Technology

Description/Activities:

Local computer bulletin boards form statewide network. Meant originally to serve agricultural needs bulletin boards, they are now host for a myriad of free and shareware programs. Users have access through local phone calls to the local Nebraska Micro Computer Educational Network (NEMEN): Bulletin Boards—no long distance calls. However, bulletin boards have the ability to dial up other boards on a state, national, and international basis. The cost of the phone call is included in the basic monthly use charge and use of the local board is free. Federal funding in the form of Carl Perkins funds under the Vocational Education Act has supported the bulk of the project development. Local bulletin boards are established at high schools, community colleges, or four-year colleges. While time is limited to one hour on the computer bulletin board, it has proved to be ample. The capabilities of the bulletin boards appear to meet each new need, providing users with unlimited potentials.

Products and/or Services:

Bulletin boards services for local, state, national, and international networking. Free and shareware software. Foundation for statewide communications system delivering data and software.

Contact:

Dan Mook, Consultant
Instructional Technology

Description/Activities:

Development of state plan and planning template for the implementation of regional, course sharing through digital fiber optics interactive television; aids in the development of cooperatives for the purpose of utilization of regional course sharing; and provides consulting on planning, financial support, technical support, and interface with telephone industry.

Products and/or Services:

Regional course sharing through interactive video carried on fiber optics.

Contact:

Robert Beecham, Director
Management Information Services

Description/Activities:

Nebraska Satellite System (NEBSAT), Nebraska Educational telecommunications Communications System replacement and upgrade. The Nebraska Educational Telecommunications Commission (NETC) is well aware of future needs of not only statewide telecommunications, but also the needs of elementary, secondary, and postsecondary education. An example is neighboring school districts' need for two-way video instruction. Phase One Network for the primary one-way television originating in the studios of the Nebraska Public Broadcasting facilities is now funded. This signal will be delivered by satellite to seven transmitters for rebroadcast. Phase One involves the replacing of the microwave transmission of broadcast signals with satellite transmission. Phase One is funded and under construction. Phase Two involves regional course sharing in advanced science and mathematics using two-way audio and visual signal via fiber optics, as well as phased purchase of satellite dishes for schools. Regional course sharing will be piloted in the Nebraska panhandle under the auspices of Chadron State College. Ten pilot programs are planned but are not developed pending the selection of the pilot schools. Requests for proposals (RFPs) for equipment are currently out.

Products and/or Services:

Satellite delivery of instructional and public television programs. Elementary/secondary classes delivered by interactive fiber optics and slow scan technology.

NEVADA

Nevada State Department of Education
400 West King Street
Carson City, NV 89710
(702) 885-3136

Contact:
Frank South, Technology Consultant

NEW HAMPSHIRE

New Hampshire Department of Education
101 Pleasant Street
Concord, NH 03301
(603) 271-2632

Contact:
Fernard J. Prevost
Curriculum Supervisor, Mathematics

Description/Activities:
Assistance to schools; support for conferences, workshops.

Products and/or Services:
Small preview center allows teachers to review Apple software. IBM soon to be available also.

NEW JERSEY

New Jersey State Department of Education
Division of General Academic Education
Educational Technology Unit
CN 500 - 225 West State Street
Trenton, NJ 08625-0500
(609) 984-1805

Contacts:
Dr. Carol N. Scelza, Manager
Educational Technology Unit

(Position Vacancy)
Educational Technology Training Center-North
Regional Curriculum Services Center-North
240 South Harrison Street

East Orange, NJ 07018
(201) 266-8694

Karen Warner, Coordinator
Educational Technology Training Center-Central
Regional Curriculum Services Unit-Central
200 Old Matawan Road
Old Bridge, NJ 08857
(201) 390-6030

J. Evans Jennings, Jr., Coordinator
Educational Technology Training Center-South
Regional Curriculum Services Unit-South
Tanyard and Salina Roads
RR #4 - Box 184-D
Sewell, NJ 08080
(609) 468-5530

Description/Activities:

Within the context of the New Jersey State Department of Education's core mission, the Educational Technology Unit is primarily responsible in assisting school districts to implement, expand, and improve educational uses of computers and other technologies. The basic functions of the unit include research and planning, dissemination, staff training, and management/facilitating. The unit works in concert with the Regional Curriculum Services Units, county education offices, and local school districts to provide leadership and direction in improving the educational uses of technology. Some of the unit's activities include the implementation of the statewide plan, *Educational Technology in New Jersey: A Plan for Action*; coordinating the three Educational Technology Training Centers (ETTCs); maintaining the Educational Technology Network (ETN); participating in the Satellite Educational Resources Consortium (SERC); providing evaluation services regarding the selection of computer hardware and software through projects such as Software Evaluation Exchange Dissemination (SEED); reporting on timely issues in the *News CLIPS* newsletter; conducting statewide conferences regarding notable educational technology programs; disseminating *Computer and Video Instructional Materials - HSPT Resource Guides*; researching and producing documents about emerging technologies that impact education and disseminating the products to all New Jersey school districts; disseminating department information and resources in the brochure, *Educational Technology Resources in the New Jersey State Department of Education*; working with New Jersey Network; and convening the School Leaders in Educational Technology, a committee of representatives from schools, busi-

nesses, and industry which serves as an advisory group to the New Jersey State Department of Education.

Products and/or Services:

Publications: *Educational Technology in New Jersey: A Plan for Action; Computer and Video Instructional Materials—HSPT Resource Guide* (separate Mathematics, Writing, Reading, and Elementary Science listings are available); *Educational Technology Resources in the New Jersey State Department of Education; News CLIPS;* and *Monitoring Student Proficiency with Computer-Managed Instruction: HSPT and Other Assessed Skills.*

Training: Educational Technology Training Centers (ETTCs) and statewide conferences.

Programs: Educational Technology Network (ETN); Satellite Educational Resources Consortium (SERC); Software Evaluation Exchange Dissemination (SEED); instructional television; and an advisory committee, School Leaders in Educational Technology.

NEW MEXICO

New Mexico Department of Education

Education Building
300 Don Gaspar
Santa Fe, NM 87501-2786
(505) 827-6581

Contact:

Susan Brown, Director
Education Preparation & Licensure

NEW YORK

**New York State Education Department
Center for Learning Technologies Policy**

Research and Development
Room 464, EBA
Albany, NY 12234
(518) 474-2563

Contact:

Gregory M. Benson, Jr., Director

Description/Activities:

Policy function: Review and development of laws/policies/regulations to see that they support and do not inhibit applications of learning technologies and telecommunications, but rather enable and enhance access, quality, cost-effectiveness, and productivity.

Research function: Identify emerging technologies and current technology/telecommunications applications that have the capacity to directly address Department/Regents priorities; assess major technology and telecommunications initiatives to determine their effectiveness for addressing the priorities of the Department/Regents and their contribution to enhanced access, quality, and cost-effectiveness of educational, cultural, and library programs.

Development function: In conjunction with Department Program Offices and with support from public/private producers and research institutions, develop pilot technology/telecommunications applications that address and support Department/Regents priorities. Also develop technology-mediated and non-mediated pilot staff training prototypes (planning and application of all learning technologies) that can be implemented and institutionalized by schools, institutions of higher education, and libraries.

Products and/or Services:

As a result of the previous and current activities of the Center for Learning Technologies, there are numerous publications available related to technology applications planning, specific technology applications (computer, video, telecommunications, and distance learning). Also, the Center's efforts related to policy, research and development have yielded a variety of documents. Information related to these documents should be directed to the Center.

NORTH CAROLINA

**North Carolina Department of Public
Instruction**

Distance Learning Systems
Media and Technology Services
116 West Edenton Street, Room 250
Raleigh, NC 27603-1712
(919) 733-3193

Contacts:

Elsie L. Brumback, Director
Division of Media and Technology Services

Linda K. De Grand, Chief Consultant
Distance Learning Section
Division of Media and Technology Services

Description/Activities:

Distance Learning Systems provides interactive staff development programming and high school instruction to 168 satellite receive sites throughout the state. The satellite network has been in operation since Fall 1988.

Products and/or Services:

Video program evaluation, selection and implementation over various delivery systems, particularly via satellite; consulting services, presentations, and workshops on effective instructional video use, distance learning applications, and emerging video technologies; interactive video teleconferencing via satellite for statewide and nationwide communication on public school issues; and technical support for existing video delivery systems in schools throughout the state.



NORTH DAKOTA

North Dakota Department of Education

600 East Boulevard Avenue
Bismarck, ND 58505-0440
(701) 224-2289

Contact:

Dr. Ron Torgeson, Director
Information and Research



NORTHERN MARIANAS

Department of Education

Education Building, Lower Base
Saipan, Northern Mariana Islands 96950
(670) 000-9468

Contact:

Haruou Kuartei



OHIO

Ohio State Department of Education

65 South Front Street, Room 813
Columbus, OH 43266-0308
(614) 466-3641

Contact:

Margaret Kasten, Coordinator
Education Technology Center
(614) 644-5864



OKLAHOMA

Oklahoma State Department of Education

2500 North Lincoln Boulevard
Oklahoma City, OK 73105-4599
(405) 521-3361

Contact:

Mary Reid, Executive Director, Curriculum

Description/Activities:

The Curriculum Section evaluates the curricular needs for Oklahoma schools. The section has coordinated and developed curriculum activities, inservice materials, and publications. More than 3,000 catalogues were mailed to schools listing computer programs available for copying based on the type of computer used. More than 3,500 public domain programs are also available for schools to copy. An extensive collection of microcomputer software is housed for schools to preview before a decision is made to purchase the programs. MicroSIFT software evaluations are sent to many schools on a continual basis. The sections also maintains an Apple Computer Lab and an IBM MS-DOS Computer Lab that offer the most current technology to instructional computer instructors across the state. The labs are also used for statewide teacher inservice training on hardware and software.

OREGON

Oregon Department of Education

Instructional Technology Unit
700 Pringle Parkway, SE
Salem, OR 97310-0290
(503) 378-6405

Contacts:

Don G. Erickson, Director

James Sanner, Technology Specialist

Description/Activities:

Oregon ED-NET—statewide video, audio, and data transmission for business and industry, post-secondary and K-12 instruction; Curriculum Planning and Management System on Apple HyperCard which allows classroom teachers to plan, record, and report lessons with the simplicity of point and click features of HyperCard.

Products and/or Services:

Workshops on both of the above to in- and out-of-state agencies and associations.

PENNSYLVANIA

Pennsylvania Department of Education State Library of Pennsylvania

Division of School Library Media Services
333 Market Street
Harrisburg, PA 17126-0333
(717) 783-9808

Contact:

Margaret Goodlin, School Library
and Educational Media Supervisor

Description/Activities:

ACCESS PENNSYLVANIA DATABASE

The ACCESS PENNSYLVANIA statewide CD-ROM database is a program which brings over 2 million resources into the hands of students without their ever leaving their school libraries. With the database, a Pennsylvania school student can search the library catalog of 547 libraries in the state from a computer in his or her library, and arrange to have any of those

resources delivered through an interlibrary loan network.

Products and/or Services:

Training; technical support group; yearly update of database on CD-ROM.

Pennsylvania Department of Education Resource Center

(same address as Pennsylvania Department of Education)
(717) 783-9192

Contact:

Evelyn C. Werner
Resource Center Coordinator

Products and/or Services:

An information service for Pennsylvania educators. Services also include VEIN (Vocational Education Information Network) and AdvancE, the adult education clearinghouse for the state. The Center offers computerized searches and a loan library of over 7,500 titles. A toll-free number is provided for clients.

LIN-TEL

(same address and telephone number as the Pennsylvania Department of Education)

Contact:

Neil Richvalsky
School Library Advisor & LIN-TEL Coordinator

Description/Activities:

LIN-TEL (Linking Information Needs—Technology, Education, Libraries) is an electronic network which links school libraries together and provides access to the computerized databases that are part of BRS. LIN-TEL serves two primary purposes: to provide students with access to computerized databases and to provide an interlibrary loan procedures to retrieve documents.

Products and/or Services:

Online database training and technical assistance to school librarians; Annual Student Search-Off Contest.

Educational Communications and School Library Development

(same address as Pennsylvania Department of Education)
(717) 787-6704

Contacts:

Blaze J. Gusic
Educational Communications Coordinator

Jean H. Tuzinski
School Library Development Advisor

Description/Activities:

Provides leadership to and coordination of the Pennsylvania school community in emerging satellite and computer technologies for educational instruction.

Products and/or Services:

Liaison between schools and SERC (Satellite Educational Resources Consortium). Currently 47 schools are involved in this project statewide. Maintains a video library of instructional television programs.

PURTO RICO

Department of Instruction

Box 759
Hato Rey, PR 00619
(809) 756-8980

Contact:

Sylvia Acevedo, Media Supervisor

Description/Activities:

Projects: Microcomputers in English and Math Instruction (MEMI); Instruccion por Computadoras para Estudiantes Talentosos (ICET). In both projects, activities are developed toward the incorporation of the microcomputer to the classroom as an educational device to enforce the development of thinking skills at the high school level for talented students and to enhance the development of basic skills at the intermediate level for slow learner students.

Products and/or Services:

Uses the microcomputer system Apple, model II-e; acquires educational material software with CAI methodology. Offers the following services: technical aid and supervision; training and workshops; equipment repairs; materials distribution; use of electronic net; and evaluation and purchase of equipment and materials.

RHODE ISLAND

Rhode Island Department of Education
Division of School Support Services
22 Hayes Street
Providence, RI 02908
(401) 277-2821

Contacts:

Kenneth R. Di Pietro
Education Specialist, Technology

Edward T. Costa
Director of School Support Services

Description/Activities:

The Rhode Island Department of Education provides technical assistance to local school districts through the office of School Support Services and through a Rhode Island School Staff Institute (RISSI) program which provides financial support for staff development activities which can include computer instruction for staff. The Department is currently developing a strategic plan for establishing a statewide communications network and improving educational access to computers and new technologies. The Department also supports a Basic Education Program (BEP) and literacy program which monitors district compliance with state regulations. Technology is evident in both programs as well as a state-supported special education communications network.

* See also in Resource Organization listing:

Curriculum Resources Center (Rhode Island College)

SOUTH CAROLINA

South Carolina Department of Education
Office of Instructional Technology
205 Rutledge Building
Columbia, SC 29201
(803) 734-8090

Contact:

Clyde H. Green, Director
Office of Instructional Technology

Description/Activities:

The Office of Instructional Technology is responsible for the development, acquisition, scheduling, and utilization of television and radio resources for grades K-12, staff development,

and adult education, which are broadcast over the South Carolina Educational Television and Radio Networks, and for the administration of computer-assisted instruction in the public schools.

Products and/or Services:

Provides program of over 240 ITV broadcast resources via state ETV network to K-12 public schools; provides staff development resources of over 400 programs over statewide ETV and educational radio networks; utilizes consultant services from five regional field offices; produces publications to accompany ITV resources to include annual resources catalog and teacher guides for individual series; produces publications to assist in ITV utilization including *Building Coordinators Guide* and *Curriculum Guide*; offers services and publications related to instructional computing including *SEED Software Reviews*, *BSAP Software Correlations for Mathematics, Language Arts & Science*, and six BSAP Software Preview Labs.



Department of Education and Cultural Affairs

Kneip Office Building
Pierre, SD 57501
(605) 773-3134

Contact:

Karen Schaack, Director
Instructional Services
(605) 773-4699

* See also in Resource Organization listing:

Technology in Education ('



**State Department of Education
Computer Education**

4th Floor, North Wing
Cordell Hull Building
Nashville, TN 37219
(615) 741-6206

Contact:

David Wooten, Director
Computer Education

Description/Activities:

K-4 curriculum: computer applications/optional; 5-6 curriculum: computer literacy and application/optional; 7-8: computer skills. NEXT-mandated by legislature that 15 hours at the 7th grade and 15 hours at the 8th grade is required to be instructed in all accredited 7th and 8th grade schools.



Texas Education Agency

1701 N. Congress Avenue
Austin, TX 78701
(512) 463-9087

Contacts:

Dr. Geoffrey H. Fletcher
Director of Educational Technology

Dr. Delia R. Duffey
Education Specialist

Description/Activities/Products:

The Software Advisory Committee of Texas compiled and distributed the *Texas Software Reference Guide*, an annotated listing of educational software, to all campuses in Texas. The *Guide* is published in a print format one time only. Subsequent editions and updates will be in an electronic format, with search capabilities only.

Products and/or Services:

Texas Software Reference Guide.

Election 88 Project

(same address and telephone number as Texas Education Agency)

Contact:

Connie Stout, Educational Specialist

Description/Activities:

Election 88 Project was an instructional project that involved students from public schools in three states. They studied the national presidential election process using electronic mail, bulletin boards, and teleconferencing.

Products and/or Services:

Students completed research projects about the election and shared the information using the services of GTE Education Network, The Electric Pages. Teachers shared curriculum information that was stored on the electronic bulletin board. In addition, students participated in a teleconference via TI-IN, a national satellite video-audio conference network based in Texas.

TEA-NET

(same address and telephone number as Texas Education Agency)

Contacts:

Connie Stout, Educational Specialist

Geoffrey H. Fletcher, Director

Description/Activities:

TEA-NET, the Texas Education Agency electronic network, is a communications network where teachers and administrators in school districts, the Texas Education Agency, regional service centers, colleges and universities, and other state and educational entities, can communicate electronically.

Products and/or Services:

microcomputer, modem, and communications software, educators can, by dialing one number, access electronic bulletin boards, participate in computer conferences, and send electronic mail messages.

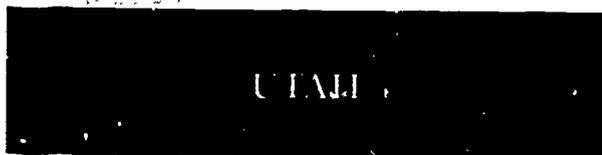
* See also in Resource Organization listing:

InterAct

Regional Instructional Television Consortium (RITC)

Satellite Educational Resources Consortium (SERC)

TI-IN Network



**Utah State Office of Education
Technology Assistance Center**

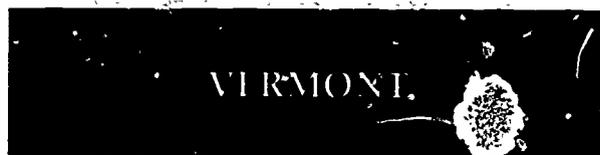
250 East 500 South
Salt Lake City, UT 84111
(801) 538-7970

Contact:

Jolene Morris, Director
Technology Assistance Center
(801) 538-7971

Products and/or Services:

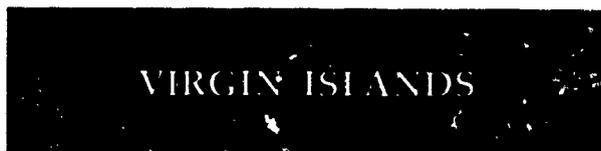
The Technology Assistance Center provides many services to schools and educators in Utah, a few of which include organizing a collection of public domain computer software which teachers and the general public may copy (has thousands of computer programs for Apple, Macintosh, and IBM computers); provides a site where Utah teachers can preview commercial computer software (has hundreds of educational computer programs which teachers can preview; for example, IBM Corporation has donated one copy of every computer program it produces); indexes and provides a collection of periodicals and educational technology textbooks; initiates and maintains purchase agreements for software—for example, has a state site-license agreement to distribute the MECC software and to endorse the GPA management system; provides inservice for teachers and successful inservicing models for districts; and assists districts in the design, development, and implementation of instructional and management models of technology usage.

**Department of Education**

State Street
Montpelier, VT 05602-2703
(802) 828-3111

Contact:

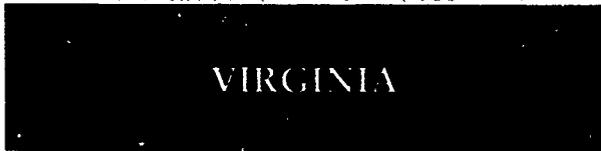
George Tanner

**Department of Education**

P.O. Box 6640
Charlotte Amalie
St. Thomas, Virgin Islands 00801

Contact:

Kurt Komives


VIRGINIA
Commonwealth of Virginia Department of Education

Instructional Media and Technology Division
 P.O. Box 6-Q
 Richmond, VA 23216
 (804) 225-2855

Contacts:

Dr. Helen S. Edens, Director
 (804) 225-2396

Dr. Ida J. Hill, Assistant Superintendent
 for Educational Technology
 (804) 225-2757

Mr. William C. Rodgers
 Telecommunications Engineer
 (804) 371-7848

Services:**Utilization and Training:**

Gordon F. Creasy, Associate Director
 (804) 225-2958

Responsible for providing leadership, coordination, and management for the integration of emerging computer technology into instructional programs (K-12); administering statewide program for library media services and textbook adoption; administering the Professional Education Information Center, the Technology Examination Center and Training Facility; and working cooperatively with institutions of higher learning, other state services and agencies, equipment and software vendors, and professional organizations to achieve stated objectives.

Gloria K. Barber, Supervisor
 School Library Media Programs
 (804) 225-2958

Responsible for providing leadership to school library media personnel, school administrators, and division-level staff in the planning, development, evaluation, and utilization of school library media centers; coordinating library and media skills with the Standards of Learning Ob-

jectives; providing assistance in the evaluation, selection, and use of automated library management systems and of electronic databases; and planning of regional and state conferences related to library media services.

Joycefaye W. Hardy, Supervisor
 Instructional Computing Technology
 (804) 225-2855

Responsible for assisting school divisions in planning, implementing, and evaluating the application of computer technology to instruction; staying up to date regarding instructional computer courseware developments; coordinating the state's MECC institutional membership; developing and managing the Technology Examination Center; and planning and conducting state and regional workshops related to technology initiatives.

Richard L. Schley, Supervisor
 Instructional Computing Technology
 (804) 225-2855

Responsible for assisting school divisions in planning, implementing, and evaluating the application of computer technology to instruction; staying up to date regarding instructional technology hardware developments; coordinating the Technology Examination Center's technology inservice programs; acting as liaison with computer user groups; and planning and conducting state and regional workshops related to technology initiatives.

Jane C. Koontz, Supervisor
 Textbook Adoptions and Professional
 Information Services
 (804) 225-3129

Responsible for the Professional Education Information Center services including cataloging of print and nonprint materials; reference/research services; online literature searches for Department of Education personnel; maintenance of periodical collection, state documents, special subject collections, and Virginia Collection; production of bibliographies to support staff projects; selection and acquisition of materials for the professional education collection; special department assignments; and administering textbook adoptions at the state level, which includes assisting local school personnel and publishers' representatives in matters pertaining to adoption.

Media Production and Distribution:

James E. Calleran, Jr.
Associate Director
(804) 225-2400

Responsible for providing leadership and coordination for the application of audiovisual media and telecommunications for instruction and staff development; administering media production and distribution services including video and film production; audiovisual library services; videotape duplication; film distribution; graphic arts production; and instructional television and related technologies.

Randy Agee, Supervisor
Instructional Television and AV Services
(804) 225-2401

Responsible for providing leadership and coordination for various telecommunications initiatives of the Department of Education including instructional television and interactive video; serving as a consultant for instructional TV to Department of Education personnel; being a liaison to the Department of Information Technology, the five public telecommunications stations, five Regional Schools Contract Planning Committees, and local school divisions; planning and conducting state and regional conferences related to instructional telecommunications; and managing the audiovisual services operations, including procurement and statewide distribution of audiovisual media, films, and media information.

Jon H. Petersen, Supervisor
Media Programs
(804-225-2401):

Responsible for media production including script supervision, photography, editing, and post-production requirements; conducting training workshops for local school personnel in media production; administering the media equipment loan service; and providing audio and photographic services to the Virginia Board of Education.

Ernest E. Skinner, Supervisor
Video Production
(804-225-2401)

Responsible for the design and production of in-service films and video programs for open-air broadcast purposes; and consulting in the area of production/design techniques related to media communication.

Edward F. Damerel
Video Production Specialist
(804) 225-2401

Responsible for assisting the production supervisors in the creation of various programs for the Department and other state agencies; providing technical support through maintenance skills; assisting in technical procedures to procure, operate, and maintain television, motion picture, and audiovisual equipment for the Department.

WASHINGTON

Washington Department of Education
Old Capitol Building FG-11
Olympia, WA 98504
(206) 753-3760

Contact:

Cheryl Lemke, Supervisor
Educational Technology

WEST VIRGINIA

West Virginia Department of Education
Capitol Complex, Building 6, Room B-318
1900 Kanawha Boulevard, East
Charleston, WV 25305
(304) 348-2691

Contacts:

Jeanne Moellenick, Coordinator
Technology-Based Education/Distance Learning
(304) 348-2691

Brenda Williams, Coordinator
State Computer Network
(304) 348-7880

Description/Activities:

Electronic mail, remote bulletin board services, tele/videoconferencing, technology maintenance contracts, uplink productions, statewide telecommunications network, site and statewide licensing for media, regionalization of technology projects, educational downlink network, and distance learning.

Wisconsin Department of Public Instruction

Division for Library Services
 Bureau for Instructional Media and Technology
 P.O. Box 7841
 125 South Webster Street
 Madison, WI 53707-7841

Contacts/Activities/Services:
 Carolyn W. Folke, Bureau Director
 (608) 266-1965

In addition to directing the activities of the Bureau, provides consultation in the areas of collection development and intellectual freedom. Also provides help in developing section policies and dealing with attempts to censor materials.

Goldie Harris, Bureau Secretary
 (608) 267-9221

Provides support services for the entire Bureau staff.

Consultant Staff:
 Gordon Hanson
 Instructional Telecommunications Consultant
 (608) 266-7112

Provides consultation to Wisconsin school district personnel and CESAs in district and regional planning for the effective use of instructional broadcasting, distance learning, electronic bulletin boards, and mail networks, and in how to integrate appropriate technologies into the curriculum. Works closely with the Wisconsin Educational Television and Radio Network the Regional Service Units for utilization of instructional television and radio, and with the Council on Instructional Telecommunications.

Richard J. Sorensen
 School Library Media Consultant
 (608) 266-1924

Provides consultation in the general areas of school library media services, such as the organization and managing of IMCs, their resources and their operations. This includes facilities design, library skills instruction, integration of services and resources with the school's curriculum, evaluation of program and

staff, and use of the Common School Fund. Also deals with preparation and certification of library media staff and the general educating of teachers in the use of libraries and instructional media. Provides consultation in the areas of cooperation between schools and other types of libraries.

Neah J. Lohr
 Microcomputer Consultant
 (608) 266-3856

Provides consultation in the effective use of computers and related technology in schools; helps local school districts in their efforts to assess needs, identify program options, and do long-range planning for using computers in instruction, and automates school libraries assists school districts with developing and implementing integrated computer literacy curricula; and works closely with the Wisconsin Instructional Computing Consortium (WICC).

Microcomputer Center/Library Staff:
 Philip Sager, Librarian
 (608) 266-3108

Coordinates the services of the DPI Microcomputer Center/Library (MCL), which provides library services to the department, a software examination center for school district personnel, and online search services through the Wisconsin Dissemination Program. The MCL's collection of recent education and library publications includes 3,500 monographs, a journal and newsletter collection of about 400 titles, the complete ERIC microfiche collection, and K-12 instructional software. Microcomputer software review sources, both printed and online, are also available.

Mary Fix, Instructional Software Specialist
 (608) 266-2741

Assists educators in selecting software appropriate for their curricular needs. Works with individuals or groups as they use the microcomputers, peripherals, software, and software review sources.

Susan Bleimehl, Library Assistant
 (608) 266-2529

Provides support for the entire MCL program. Is particularly knowledgeable about the operation of the Apple and Macintosh computers, interlibrary loan, and electronic bulletin boards.

Products and/or Services:

Incorporating all of the above, the Wisconsin Department of Education operates a Microcomputer Center/Library, a preview center offering the latest microcomputer technologies. The library maintains a collection of over 1,000 software packages, a lab containing a broad range of microcomputers, instructional software, word processing, graphics, desktop publishing, music, software review resources and magazines, CD-ROM (players and products), online telecommunications, microcomputer networks and network management products, microcomputer online and print information sources, and other microcomputer technologies such as interactive videodisc, Causin Strip Reader, printers, modems, data conversion, MIDI Interface, and Echo and Euphonics Voice Synthesizers. A brochure describing the MCL's available products and services in more detail is available by writing to Microcomputer Center/Library, Wisconsin Department of Public Instruction, GEF III, Room 311, P.O. Box 7841, 125 South Webster Street, Madison, WI 53707, or by calling (608) 266-2529.

WYOMING**Wyoming Department of Education**

Hathaway Building, Second Floor
Cheyenne, WY 82002
(307) 777-6670

Contacts:

Judith A. Kishman
Educational Technology Consultant

Steven King
Data Analysis Consultant

Description/Activities:

Judith Kishman
Courseware Evaluation Coordinator

Software technical support; statewide software preview library; data collection.

Steven King

Data collection; data analysis; local area network; hardware technical support.

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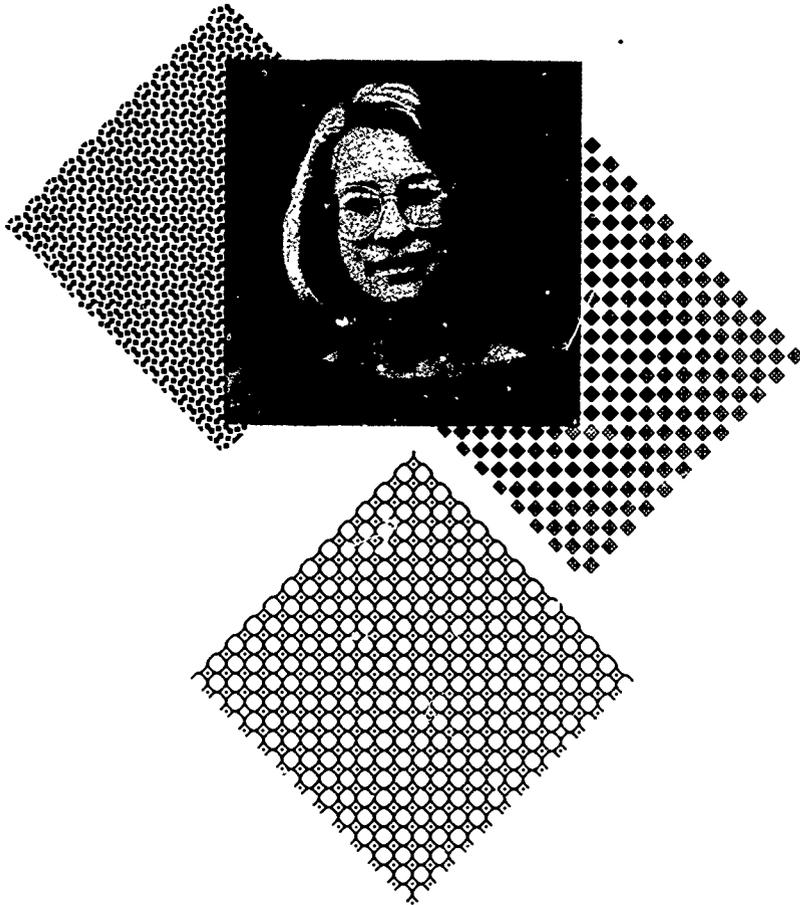
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