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ABSTRACT

The fourth annual bibliography of ERIC Clearinghouse publications reflects the information analysis activities of each Clearinghouse for Fiscal Year 1971. The publication includes 416 substantive bibliographies, papers, and state-of-the-art reviews which are identified as ERIC information analysis publications. The full text of 310 of the 416 documents cited are available in microfiche or hard copy from the ERIC Document Reproduction Service (EDRS). In most cases if the document is not available from EDRS, an alternate availability is given with the citation. A subject index is also provided. The first issue of ERIC Products, listing 149 publications of Fiscal Year 1968, is available as ERIC document ED 029 161; the second issue, listing 240 publications of Fiscal Year 1969, is available as ERIC document ED 034 089; and the third issue, listing 366 publications of Fiscal Year 1970, is available as ERIC document ED 041 598. All previous issues may be ordered from the ERIC Document Reproduction Service. (MM)

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EDUCATIONAL RESOURCES INFORMATION CENTER

ERIC PRODUCTS 1970-1971

An Annotated Bibliography of Information Analysis

Publications of the ERIC Clearinghouses

July 1970 Through June 1971

Mary F. McCord, editor

ERIC CLEARINGHOUSE ON LIBRARY AND INFORMATION SCIENCES

AMERICAN SOCIETY FOR INFORMATION SCIENCE

September 1971

**U.S. Department of Health, Education, and Welfare
Office of Education
Educational Resources Information Center**

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ERIC
Full Text Provided by ERIC

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INTRODUCTION

The ERIC System

ERIC, an acronym for Educational Resources Information Center, is a nationwide information system designed and supported by the U.S. Office of Education. Since June 1964, ERIC has been dedicated to the progress of education through the dissemination of educational research results, research-related materials, and other resource information that can be used in developing more effective educational programs. ERIC consists of a coordinating staff in Washington, D.C. and a number of clearinghouses located at universities or with professional organizations across the country.

Through this network of specialized centers or clearinghouses, each of which focuses on a specific field in education, information is acquired, evaluated, abstracted, indexed, and announced in ERIC reference products. These reference publications, *Current Index to Journals in Education (CIJE)* and *Research in Education (RIE)*, thus provide access to reports of innovative programs and significant efforts in educational research, both current and historical, which might otherwise not be made available.

CIJE is a monthly index to 530 educational periodicals. The majority of these publications represent the core periodical literature in the field of education. The other publications indexed in *CIJE* represent coverage devoted to peripheral literature relating to the field of education. This unique feature assures access to important articles published in those periodicals which fall outside the scope of education-oriented literature. *CIJE* is published by CCM Information Corporation, 866 Third Avenue, New York, New York 10022. Subscription rate: U.S.—\$39.00 a year, single copy—\$3.50; semiannual and annual cumulative indexes—\$40.00. Foreign subscriptions have postage added.

RIE is a monthly abstract journal announcing recently completed research and research-related documents in the field of education. *RIE* is published by the Superintendent of Documents, U.S. Government Printing Office (G.P.O.), Washington, D.C. 20402. Subscription rate: U.S.—\$21.00 a year; foreign \$26.25, single copy: U.S.—\$1.75. Semiannual and annual cumulative indexes are also available from G.P.O.

ERIC Products

ERIC Products is an annual bibliography of those publications of the ERIC Clearinghouses which reflect information analysis activities. In addition to the bibliographic activities which are conducted to increase dissemination of information on document availability, each clearinghouse also engages in information analysis activities, which include the preparation of bibliographies, research reviews, interpretive studies, and similar publications, designed to list, organize, review, and synthesize the literature of educational research to meet the needs of the user community.

The publication includes substantial bibliographies, review papers, and state-of-the-art papers which are identified as ERIC information analysis publications; it excludes routine brochures, accession lists and short notes published in clearinghouse newsletters. This fourth issue of *ERIC Products* lists 416 publications for Fiscal Year 1971 (July 1970 through June 1971).

The full text of 310 of the 416 documents cited in this bibliography is available in two forms: microfiche (MF)—a 4" x 6" sheet of microfilm, on which up to 70 pages of text are reproduced—and hard copy (HC)—a reproduction of the document on paper at the original size—and may be ordered from the ERIC Document Reproduction Service (EDRS). In most cases if the document is not available from EDRS, an alternate availability is given with the citation.

For these documents available from EDRS, whether in microfiche or hard copy form, the following requirements apply:

1. All items must be ordered by ED number.
2. Book rate or library rate postage is included in the prices. The difference between book rate or library rate and first class or foreign postage (outside the continental United States) rate will be billed at cost.
3. Payments must accompany orders under \$10.00.
4. All orders must be in writing; no phone orders.

Order, by ED number only, from:

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Bethesda, Maryland 20014

Further details on ordering documents and order forms are available on request by writing to EDRS at the above address.

To correspond with the issues of *RIE*, the references in this bibliography are arranged by the clearinghouse's alpha prefix. Within each clearinghouse, entries without identified personal authors are listed before those with authors. For each entry, the following items of information, as appropriate and in the form supplied by the individual clearinghouses, have been given:

1. Personal author(s)
2. Title
3. Series name and number
4. Journal reference
5. Date of publication, if not already included in a journal reference
6. Number of pages
7. Type of publication, e.g., Bibliography, Review Paper, etc.
8. ERIC Document (ED) number or clearinghouse accession number if the document has not yet appeared in *Research in Education*
9. Date of appearance of abstract in *Research in Education*
10. Price of the document, in either microfiche (MF) or hard copy (HC) format
11. A brief abstract

*The first issue of *ERIC Products*, listing 149 publications of Fiscal Year 1968, is available as ERIC document ED 029 161 (Price: MF-\$0.65; HC-\$3.29), the second issue, listing 240 publications of Fiscal Year 1969, is available as ERIC document ED 034 089 (Price: MF-\$0.65; HC-\$3.29), and the third issue, listing 366 publications of Fiscal Year 1970, is available as ERIC document ED 041 598 (Price: MF-\$0.65; HC-\$3.29). All previous issues may be ordered from the ERIC Document Reproduction Service.

ERIC PRODUCTS 1970-1971

STATISTICAL SUMMARY

	Type of Publication												TOTALS
	Abstract Journal	Annotated Bibliography	Bibliography	Conference Report	Directory	Journal Article	Literature Review	Monograph	Paper	Report	Serial	State-of-the-Art Review	
Adult Education (AC)	-	8	-	1	-	9	8	-	-	-	-	-	28
Linguistics (AL)	-	-	-	-	-	-	-	2	8	1	-	-	11
Counseling and Personnel Services (CG)	3	3	-	2	1	2	2	-	-	5	4	-	22
Educational Management (EA)	-	-	24	1	-	-	1	-	-	-	-	10	36
Exceptional Children (EC)	4	1	-	-	-	40	-	-	1	-	1	-	68
Educational Media and Technology (EM)	-	1	-	-	-	-	-	2	-	1	-	3	8
Teaching of Foreign Languages (FL)	-	-	4	1	-	-	-	1	7	-	-	1	16
Higher Education (HE)	-	-	-	-	-	5	3	-	7	1	-	2	13
Junior Colleges (JC)	-	-	-	-	-	10	-	3	13	-	-	-	26
Library and Information Sciences (LI)	-	1	-	-	3	-	2	1	-	1	-	-	9
Early Childhood Education (PS)	-	5	2	-	-	4	-	-	3	-	-	-	15
Rural Education and Small Schools (RC)	-	4	-	1	-	3	8	2	2	1	-	-	23
Reading (RE)	-	5	1	-	-	2	-	-	-	-	-	-	9
Science and Mathematics Education (SE)	1	2	12	1	-	5	-	-	6	1	-	-	28
Social Science Education (SO)	-	1	-	-	-	-	-	-	2	-	-	2	6
Teacher Education (SP)	-	5	-	2	-	-	-	2	-	1	-	-	19
Teaching of English (TE)	-	3	1	-	-	3	14	1	-	-	-	-	24
Tests, Measurement and Evaluation (TM)	-	-	-	-	-	-	-	-	1	-	-	-	1
Disadvantaged (UD)	-	2	-	-	-	1	1	-	2	1	-	3	10
Vocational and Technical Education (VT)	8	1	-	-	-	10	1	-	6	-	-	13	39
TOTALS	16	42	44	9	4	94	40	14	58	13	5	34	416

ADULT EDUCATION (AC)

- 71-001 CONTINUING EDUCATION OF WOMEN. Current Information Sources, Number 32. September 1970. 76pp. (Annotated Bibliography) ED 042 122 RIE January 1971 MF-\$0.65 HC-\$3.29
The 150 items in this bibliography on women's continuing education begin with descriptions of a newsletter and three bibliographies, followed by documents on sex differences, employment related interests and needs, participation in programs, guidance and counseling, disadvantaged women, and homemaking education.
- 71-002 DIGESTS OF PAPERS PRESENTED TO THE ADULT EDUCATION RESEARCH CONFERENCE, FEBRUARY 27-28, 1970. MINNEAPOLIS. July 1970. 53pp. (Annotated Bibliography) ED 039 377 RIE October 1970 MF-\$0.65 HC-\$3.29
Twenty-seven papers on agricultural extension, adult basic education, programmed instruction, program planning, general education, research problems, motivation, behavior and attitude change, university extension, adult educators, and other areas of concern within adult education were presented at this research conference.
- 71-003 ERIC CLEARINGHOUSE ON ADULT EDUCATION; PUBLICATIONS, 1969-1970. October 1970. 20pp. (Annotated Bibliography) ED 042 962 RIE February 1971 MF-\$0.65 HC-\$3.29
Beginning with general information on the scope and subject coverage of the ERIC Clearinghouse on Adult Education (ERIC/AE) and on principal periodicals covering the literature, this annotated bibliography lists 74 literature reviews, research registers, ERIC/AE current and basic information sources, Central ERIC and Government Printing Office publications, and other documents.
- 71-004 "General Information Sources in Adult Education." In HANDBOOK OF ADULT EDUCATION, edited by Robert M. Smith, and others. 1970. 13pp. (Book Chapter)
This chapter lists adult education journals; indexing and abstracting services; bibliographies; literature guides, and research reviews; special information centers and services; and studies and indexing tools.
- 71-005 PARENT, HOME AND FAMILY LIFE EDUCATION. Current Information Sources, Number 30. July 1970. 87pp. (Annotated Bibliography) ED 039 376 RIE October 1970 MF-\$0.65 HC-\$3.29
This 149 item annotated bibliography on parent, home, and family life education includes descriptions of periodicals and bibliographies and materials on home economics education, training for professionals and nonprofessionals, programs for low income groups, consumer education, and parent education.
- 71-006 PERSONNEL DEVELOPMENT IN ADULT EDUCATION. Current Information Sources, Number 31. August 1970. 101pp. (Annotated Bibliography) ED 041 244 RIE December 1970 MF-\$0.65 HC-\$6.58
The 192 items in this bibliography are on program planning, educational trends, legislation, and other matters within or relevant to the preparation of adult educators.
- 71-007 Clyde, Robert W. and Jaberg, Eugene C. THE USE OF MASS MEDIA IN RELIGIOUSLY MOTIVATED ADULT EDUCATION: A REVIEW OF THE LITERATURE. October 1970. 11pp. (Literature review) ED 042 072 RIE January 1971 MF-\$0.65 HC-\$3.29
This paper reviews mass media adult education literature from a variety of sources (social scientists, religious educators, experimental public affairs broadcasting projects, and others) relevant to the use of mass media in connection with group programs stimulated by religious organizations or purposes.
- 71-008 DeCrow, Roger and Loague, Nehume, eds. ADULT EDUCATION DISSERTATION ABSTRACTS: 1963-1967. December 1970. 309pp. (Annotated Bibliography) ED 044 537 RIE April 1971 MF-\$0.56 HC-\$13.16
This bibliography contains citations, abstracts, and ordering information for 505 dissertations pertinent to the education or training of adults.
- 71-009 DeCrow, Roger. "Adult Education in the Private Vocational Schools." CONTINUING EDUCATION FOR ADULTS, n151, pp.1-5, 1970. 5pp. (Journal Article)
Presented in this article are comments on A. Harvey's Belitsky's book entitled *Private Vocational Schools and Their Students*. The central problem of coordination for delivery of adult education programs, the suitability of these proprietary schools for training needs, and the obstacles to better use of the schools are discussed. The article concludes with descriptive information on proprietary schools.
- 71-010 DeCrow, Roger. "The ERIC System: A Major Source of Educational Television Information." TELEVISION, v4 n2, pp.116-117, June 1970. 2pp. (Journal Article)
Services of the ERIC (Educational Resources Information Center) educational information system center around two monthly announcement publications and include the dissemination of actual documents in microfiche and/or hard copy reproduction. Two ERIC clearinghouses (Educational Media and Technology, and Adult Education) together cover the educational television literature.
- 71-011 DeCrow, Roger. "Information Resources and Services." In HANDBOOK OF ADULT EDUCATION, edited by Robert M. Smith; and others. 1970. 16pp. (Book Chapter)
This chapter introduces some of the basic tools of information access, and some of the new services helpful to anyone con-

cerned with adult education, and gives a summary of the nature and volume of adult education publications, and the present state of information services in the field.

- 71-012 DeCrow, Roger and Grabowski, Stanley M., eds. RESEARCH AND INVESTIGATION IN ADULT EDUCATION: 1970 Annual Register. 1970. 258pp. (Annotated Bibliography) ED 045 866 RIE May 1971 MF-\$0.65 HC-\$9.87

Embracing 750 items on adult education research and investigation (mostly dated 1969 or 1970), this annotated bibliography covers adult learning characteristics, program planning and administration, learning environments, instructional methods, curriculum materials and instructional devices, personnel and staffing; education of specific clientele groups, special program areas, professional and technical continuing education, management and supervisory development, occupational training, labor education, institutional sponsors, and international perspectives.

- 71-013 DeCrow, Roger and Cortright, Richard. RESOURCES FOR ADULT EDUCATION IN READING GOALS FOR THE DISADVANTAGED. 1970. 13pp. (Annotated Bibliography) ED 040 335 RIE November 1970 HC-available from Reading Goals for the Disadvantaged, International Reading Association, Newark, Delaware 1971

This review of information resources in adult basic education, recommends some actions that an individual can take to uncover local information sources in adult basic education, describes the three main national information systems, suggests other organizational information sources, and lists some publications useful in adult basic education available through the ERIC Document Reproduction Service.

- 71-014 Everly, Jack C. THE MASS MEDIA IN COOPERATIVE EXTENSION: A REVIEW OF RECENT LITERATURE. March 1971. 13pp. (Literature Review) ED 047 236 RIE June 1971 MF-\$0.65 HC-\$3.29

A brief account is given of current evaluative and research activity by Cooperative Extension personnel as they try to assess the role of mass media in environmental education and a growing range of other areas.

- 71-015 Grabowski, Stanley M., ed. ADULT LEARNING AND INSTRUCTION. January 1971. 137pp. (Conference Report) ED 045 867 RIE May 1971 MF-\$0.65 HC-\$6.58

Eight conference papers discuss adult learning, instructional theory and related issues in research and practice of adult education.

- 71-016 Grabowski, Stanley M. "Human Relations Development Through Films." TRAINING FILM DIGEST, v2 n5 and 6, pp.8-9, 1970. 2pp. (Journal Article)

A listing of 24 films suitable for use in human relations training is presented.

- 71-017 Grabowski, Stanley M. "Manpower Training in the Health Fields." ADULT LEADERSHIP,

v19 n8, pp.273-274, February 1971. 2pp. (Journal Article)

This journal article provides an annotated bibliography of documents dealing with the education for the health professions, collected and processed by the ERIC Clearinghouse on Adult Education.

- 71-018 Grabowski, Stanley M., ed. "Methods and Techniques in Adult Education." ADULT LEADERSHIP, v19 n3, pp.99-100, September 1970. 2pp. (Journal Article)

This 19 item annotated bibliography presents Educational Resources Information Center documents on simulation, audiovisual aids and equipment, group discussion, the case method, and other aspects of instructional and training methodology, with special reference to such fields as management development, military training, literacy, and religious adult education.

- 71-019 Grabowski, Stanley M. "Residential Adult Education." ADULT LEADERSHIP, v19 n10, p. 356, April 1971. 1p. (Journal Article)

This journal article lists, with annotations, several useful documents on residential adult education and gives a brief census of residential centers. Information about ordering documents is also given.

- 71-020 Jacobs, H. Lee, and others. EDUCATION FOR AGING: A REVIEW OF RECENT LITERATURE. July 1970. 118pp. (Literature Review) ED 038 552 RIE September 1970 MF-\$0.65 HC-\$6.58

This literature review covers studies on a wide range of behavior patterns relative to the aging process. While most of this work deals in terms of adult problems and interests, attention is also given to early life experience and attitudes which set the pattern for later life characteristics.

- 71-021 Marien, Michael and DeCrow, Roger. "Breaking the Cycle of Illiteracy: Focus on Adults." NOTES ON THE FUTURE OF EDUCATION, n2 n1, pp.10-12, Fall 1970. 3pp. (Journal Article)

A massive national literacy program for both children and adults seems desirable, not only to reach children through their parents, but to provide every opportunity for parents to keep up with the literacy demands of our complex and changing society.

- 71-022 Mathieson, David E. CORRESPONDENCE STUDY: A SUMMARY REVIEW OF THE RESEARCH AND DEVELOPMENT LITERATURE. March 1971. 107pp. (Literature Review) AC 010 028 RIE issue unknown MF-\$0.65 HC-\$6.58

Beginning with a historical review of private correspondence schools, supervised high school level programs, military programs, and activities of university extension personnel, this literature review covers accreditation and licensing problems, characteristics of students, educational methods and course design, patterns of student achievement and completion, and innovations in correspondence methodology.

- 71-023 Mathieson, David E. "Correspondence Study in Multimedia Learning Systems." CONTINUING EDUCATION FOR ADULTS, n154, pp.1-4, 1970. 4pp. (Journal Article)
Correspondence study continues to be serviceable in higher education, especially in programs which mesh correspondence with an array of other independent study methods, such as educational television.
- 71-024 Mathieson, David E. "Professional Continuing Education for Civilian Federal Employees." CONTINUING EDUCATION FOR ADULTS, n159, pp.1-5, April 1971. 5pp. (Journal Article)
A review is presented of several important documents outlining the need for systematic continuing education for civilian federal employees with some recommendations to implement the programs. A 17 item bibliography is included.
- 71-025 McMahon, Ernest E. NEEDS--OF PEOPLE AND THEIR COMMUNITIES--AND THE ADULT EDUCATOR: A REVIEW OF THE LITERATURE OF NEED DETERMINATION. July 1970. 86pp. (Literature Review) ED 038 551 RIE September 1970 MF-\$0.65 HC-\$3.29
Focusing on community education and development, this literature review analyzes the problem of determining community and individual needs; the issue of relevance to the community; the meaning of need (as opposed to interests or desires); and the use of community studies, listening posts, surveys, and power structure analysis as evaluation tools.

- 71-026 Niemi, John A. and Anderson, Darrel V. TELEVISION: A VIABLE CHANNEL FOR EDUCATING ADULTS IN CULTURALLY DIFFERENT POVERTY GROUPS?--A LITERATURE REVIEW. April 1971. 16pp. (Literature Review) ED 048 550 RIE July 1971 MF-\$0.65 HC-\$3.29
Recent research on the effectiveness of educational television with adults in culturally different poverty groups suggests that ETV for these groups must be combined with techniques (like listening groups) using volunteer teachers, and that such planning requires close cooperation between adult educators and media specialists.
- 71-027 Power, Hilton M. MASS MEDIA IN PUBLIC AFFAIRS ADULT EDUCATION: A REVIEW OF THE LITERATURE. November 1970. 12pp. (Literature Review) ED 042 075 RIE January 1971 MF-\$0.65 HC-\$3.29
This review examines the major evidence as to the extent and effectiveness of public affairs education provided by, or in conjunction with, the mass media.
- 71-028 Verner, Coolie, and others. THE PREPARATION OF ADULT EDUCATORS: A SELECTED REVIEW OF THE LITERATURE PRODUCED IN NORTH AMERICA. September 1970. 89pp. (Literature Review) ED 041 180 RIE December 1970 MF-\$0.65 HC-\$3.29
This literature review on the preparation of professional adult educators attempts to cover the leading areas of discussion and research as well as some of the more interesting conclusions reported.

LINGUISTICS (AL)

- 71-029 Cardenas, Daniel N. DOMINANT SPANISH DIALECTS SPOKEN IN THE UNITED STATES. June 1970. 49pp. (Monograph) ED 042 137 RIE January 1971 MF-\$0.65 HC-\$3.29
A description is presented of: the major varieties of Spanish in the United States; a contrastive analysis of intonation in terms of pitch, terminal junctures, stress, and rhythm; and certain lexical items and innovations brought about by current bilingualism. A bibliography concludes the study.
- 71-030 Fenn, Henry C. "Articulation in Programs of Chinese Language." BULLETIN OF THE ERIC CLEARINGHOUSE FOR LINGUISTICS, n3, July 1970. 11pp. (Paper) ED 042 162 RIE January 1971 MF-\$0.65 HC-\$3.29
To meet the problem of student "nomadism" at home and abroad, there should be certification of all transfers in terms of generally accepted standards of content and proficiency. (Suggested levels of spoken vocabulary for the first four years and a modified version of the Service Institute's competence scale are provided.)
- 71-031 Gage, William. "Uncommonly Taught Languages." BULLETIN OF THE ERIC CLEARINGHOUSE FOR LINGUISTICS, n17, September 1970. 19p. (Paper) ED 042 163 RIE January 1971 MF-\$0.65 HC-\$3.29

- This paper provides an overview of recent developments in the teaching and study of the uncommonly taught languages, and attempts to provide a rationale for a continuing interest in the field.
- 71-032 Hodge, Carleton T. "Response to W. Gage's Article 'Uncommonly Taught Languages.'" BULLETIN OF THE ERIC CLEARINGHOUSE FOR LINGUISTICS, n17, September 1970. 8pp. (Paper) ED 042 164 RIE January 1971 MF-\$0.65 HC-\$3.29
This paper attempts to stress other aspects than those treated by Gage and points out the practical and technical needs of those interested in the field.
- 71-033 Kloss, Heinz. LAWS AND LEGAL DOCUMENTS RELATING TO PROBLEMS OF BILINGUAL EDUCATION IN THE UNITED STATES. January 1971. 95pp. (Paper) ED 044 703 RIE April 1971 MF-\$0.65 HC-\$3.29
This document is intended to provide information about the legal aspects of bilingual education through a general discussion of the problem, as well as through the presentation of laws and other legal documents concerned with the language of education in schools.
- 71-034 Leibowitz, Arnold H. EDUCATIONAL POLICY AND POLITICAL ACCEPTANCE: THE IMPOSITION OF ENGLISH AS THE LANGUAGE OF INSTRUCTION IN

AMERICAN SCHOOLS. March 1971. 132pp. (Report) ED 047 321 RIE June 1971 MF-\$0.65 HC-\$6.58

The purpose of this study is to analyze the reasons behind governmental decisions leading to the "English-only" instruction policy in the public schools and the recent softening of this policy by various state and local governments.

- 035 Oliver, Joseph D. SOCIAL DETERMINANTS IN COMMUNICATION EVENTS IN A SMALL BILINGUAL COMMUNITY IN NEW MEXICO. December 1970. 36pp. (Monograph) ED 044 675 RIE April 1971 MF-\$0.65 HC-\$3.29

The purpose of this report is to present an outline of actual occurrences in communication and their social determinants in the small Spanish-English bilingual community of Los Ojos, New Mexico, with some emphasis on difference in occurrences as related to age.

- 036 Ortego, Philip D. THE LINGUISTIC IMPERATIVE IN TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES. May 1970. 45pp. (Paper) ED 038 626 RIE September 1970 MF-\$0.65 HC-\$3.29

Presenting a general review of some linguistic considerations in the field of TESOL, the author discusses the following topics: linguistic perspectives, methods of teaching English to speakers of other languages, preliminary considerations, philosophical and pragmatic considerations, cross-cultural correlations of linguistic behavior--tagmatic differentials, the TESOL teacher, and a linguistic model. A bibliography is appended.

- 71-037 Pulliam, Robert. "The Mechanical Recognition of Speech: Prospects for Use in the Teaching of Languages." BULLETIN OF THE ERIC CLEARINGHOUSE FOR LINGUISTICS, n18, November 1970. 21pp. (Paper) ED 043 866 RIE March 1971 MF-\$0.65 HC-\$3.29

It is stressed that the automatic speech recognition systems, although highly developed, do not recognize speech in the same sense as the human being does, and that they can not deal with a continuous random stream of speech but rather with segments of the length of a short sentence, selected from among up to a hundred possible choices.

- 71-038 Thompson, Richard T. "Uncommonly Taught Languages: Another Perspective." BULLETIN OF THE ERIC CLEARINGHOUSE FOR LINGUISTICS, n19, January 1971. 5pp. (Paper) ED 044 707 RIE April 1971 MF-\$0.65 HC-\$3.29

The author stresses that a great deal has been achieved since the passing of the National Defense Act in 1968 and that "most of that portion financed by the Office of Education has come about more by design than by accident, and the trend of recent years has clearly been to target in ever more sharply on priority needs in the language field."

- 71-039 Weber, Rose-Marie. LINGUISTICS AND READING. May 1970. 32pp. (Paper) ED 043 852 RIE March 1971 MF-\$0.65 HC-\$3.29

Surveyed in this paper are the principles and findings from the field of linguistics that have been brought to bear on questions dealing with learning to read, the analysis of the reading process, and the sources of reading failure.

COUNSELING AND PERSONNEL SERVICES (CG)

- 040 GUIDING STUDENTS INTO VOCATIONAL CURRICULA. A BIBLIOGRAPHY. June 1970. 10pp. (Annotated Bibliography) ED 039 374 RIE October 1970 MF-\$0.65 HC-\$3.29

Guidance of students into vocational curricula is the focus of this annotated bibliography. The materials included describe factors related to student success and satisfaction with specific vocational programs and guidance procedures for helping the student select vocational programs.

- 041 MATCHING STUDENTS AND CAREERS. A BIBLIOGRAPHY. June 1970. 12pp. (Annotated Bibliography) ED 039 375 RIE October 1970 MF-\$0.65 HC-\$3.29

Materials related to such topics as: (1) worker characteristics and factors influencing success in jobs, (2) student characteristics and attitudes as predictors of job success, and (3) techniques of communicating information to students for career choice are contained in this annotated bibliography.

- 042 RETAINING STUDENTS IN TRAINING. A BIBLIOGRAPHY. June 1970. 9pp. (Annotated Bibliography) ED 039 373 RIE October 1970 MF-\$0.65 HC-\$3.29

Materials related to the problem of retaining students in vocational education

programs are presented in this annotated bibliography. Such factors as student attitudes, abilities, motivation are considered as possible factors, related to retention.

- 71-043 Butts, Thomas A. STUDENT SERVICES IN HIGHER EDUCATION. INFORMATION ANALYSIS REPORT. December 1970. 71pp. (Report) ED 048 620 RIE July 1971 MF-\$0.65 HC-\$3.29

Significant documents related to student services in higher education for the period January through July 1970 are reviewed, major developments discussed, and implications and applications for practices drawn. The paper is divided into four sections:

- (1) student behavior, (2) student services, (3) personnel, and (4) support services.

- 71-044 Harrison, Don K. SPECIAL POPULATIONS: CULTURALLY DIFFERENT AND OTHERS. INFORMATION ANALYSIS REPORT. December 1970. 55pp. (Report) ED 048 621 RIE July 1971 MF-\$0.65 HC-\$3.29

A brief analysis of the ERIC/CAPS documents referring to the disadvantaged, handicapped, ethnic, and minority groups is presented. Documents input during the time period January through June 1970 are analyzed in terms of significant trends and significant single studies.

- 045 Jaslow, Carol K. THE CHILD PRESCHOOL THROUGH GRADE 12. INFORMATION ANALYSIS REPORT. December 1970. 100pp. (Report) ED 048 623 RIE July 1971 MF-\$0.65 HC-\$3.29
The concerns of children from the pre-school level through grade 12 are the focus of this report. This in-depth analysis of 415 documents examines patterns of behavior, both personal and academic, and ways in which school personnel and parents can improve those behaviors.
- 1-046 Kersch, Susan F. COUNSELORS AND PERSONNEL WORKERS: BEHAVIOR, TECHNIQUES, AND EDUCATION. INFORMATION ANALYSIS REPORT. December 1970. 70pp. (Report) ED 048 622 RIE July 1971 MF-\$0.65 HC-\$3.29
The 415 documents analyzed focus on counselors and personnel workers and their training, role and behavior. Documents input during the time period of January through July 1970 are analyzed in terms of significant trends and significant studies.
- 1-047 Mattson, Judith, ed. "The Counselor and the Current Scene." CAPS CAPSULE, v4 n2, Winter 1971. 30pp. (Serial) ED 047 352 RIE June 1971 MF-\$0.65 HC-\$3.29
Five areas are surveyed with direct implication for "The Counselor and the Current Scene." They are: (1) aggression; (2) parent counseling; (3) college admissions for the culturally distinct; (4) role modeling with the disadvantaged; and (5) inservices activities.
- 1-048 Mattson, Judith, ed. "The Counselor and the Feminine Protest." CAPS CAPSULE, v4 n3, Spring 1971. 28pp. (Serial) ED 049 515 RIE August 1971 MF-\$0.65 HC-\$3.29
The basic conflicts in the current roles of women as they relate to the individual female's level of self-esteem are discussed in this issue of CAPS CAPSULE. Changes in counselor roles and techniques are suggested in order that counselors may respond more adequately to the evolving role of women in American society.
- 71-049 Mattson, Judith, ed. INTEGRATED PERSONNEL SERVICES INDEX. VOLUME 2 NUMBER 2. 1970. 382pp. (Abstract Journal) ED 042 076 RIE January 1971 MF-\$0.65 HC-\$13.16
Over 1500 entries are drawn from ERIC documents, dissertations, journals and books in this comprehensive index to the literature of the personnel services field. This issue covers materials from July through December 1969.
- 71-050 Mattson, Judith, ed. INTEGRATED PERSONNEL SERVICES INDEX. VOLUME 3 NUMBER 1. January 1971. 241pp. (Abstract Journal) ED 046 062 RIE May 1971 MF-\$0.65 HC-\$9.87
The Integrated Personnel Index is a semi-annual index which announces and organizes selected material from all sources relevant to counseling and personnel work. Included are 1439 entries drawn from ERIC documents, dissertations, journals and books. This issue covers materials from January through June 1970.
- 71-051 Mattson, Judith, ed. INTEGRATED PERSONNEL SERVICES INDEX. VOLUME 3 NUMBER 2. May 1971. 304pp. (Abstract Journal) ED 050 429 RIE September 1971 MF-\$0.65 HC-\$13.16
Over 1500 entries are drawn from ERIC documents, dissertations, journals and books in this comprehensive index to the literature of the personnel services field. This issue covers materials from July through December 1970.
- 71-052 Mattson, Judith, ed. "A Look to the Future." CAPS CAPSULE, v4 n1, Fall 1970. 30pp. (Serial) ED 044 764 RIE April 1971 MF-\$0.65 HC-\$3.29
The main article is based on an interview with the presidents elect of three national counselor organizations. They discuss the role of the school counselor and counselor educator in the future and suggest a variety of innovative approaches.
- 71-053 Mattson, Judith, ed. "Peer Counseling." CAPS CAPSULE, v3 n3, Spring 1970. 28pp. (Serial) ED 041 178 RIE December 1970 MF-\$0.65 HC-\$3.29
The two main articles and a bibliography feature the area of peer counseling in this issue of CAPS CAPSULE. Two programs are described: one at the college level, and one in the high school setting.
- 71-054 Mattson, Judith, ed. RICH: REGISTER TO IMPROVE COMMUNICATIVE HABITS. September 1970. 164pp. (Directory) ED 042 067 RIE January 1971 MF-\$0.65 HC-\$6.58
The volume contains two sections, the Directory and the Indexes, and is designed to improve the flow of information among personnel workers and to open avenues of communication among those of similar interest.
- 71-055 Miller, Juliet V. "Information Retrieval Systems in Guidance." THE PERSONNEL AND GUIDANCE JOURNAL, v49n3, pp.212-217, November 1970. 7pp. (Journal Article)
This article describes a number of currently operating systems which have direct relevance for guidance and counseling, and stresses that in developing and using these systems, individual counselors, large guidance oriented units, and guidance and counseling professional associations all have a vital role to play in this development.
- 71-056 Pringle, Marlene B. GENERAL POPULATIONS, THE AGED, AND WOMEN. INFORMATION ANALYSIS REPORT. December 1970. 58pp. (Report) ED 048 624 RIE July 1971 MF-\$0.65 HC-\$3.29
A brief analysis of ERIC/CAPS documents referring to the aged, general populations and women. Documents input during the time period January through June 1970 are analyzed in terms of significant trends and significant single studies.
- 71-057 Sloan, Nancy E. PROGRAMS ON DRUG USE AND ABUSE. Personnel Services Review. Series 5. Contemporary Issues in Student Personnel Work. November 1970. 16pp. (Literature

Review) ED 044 762 RIE April 1971 MF-\$0.65 HC-\$3.29

This is one of a series intended for use by counseling practitioners to aid in the development of programs and attitudes on drug abuse through exploration of: (1) models of practice; (2) generalizations; (3) action possibilities; and (4) methods of implementation.

- 71-058 Sloan, Nancy E. SUPPORT PERSONNEL IN GUIDANCE PROGRAMS. Personnel Services Review Series 3. Human Resources in the Guidance Programs. November 1970. 14pp. (Literature Review) ED 044 763 RIE April 1971 MF-\$0.65 HC-\$3.29

This is one of a series which focuses on the use of human resources in guidance programs. Intended for use by school personnel through the exploration of: (1) models of practice; (2) generalizations; (3) action possibilities; and (4) suggestions for implementation.

- 71-059 Walz, Garry R., and others. PROCEEDINGS OF ERIC/CAPS AT KPGA: FOCUS ON YOUTH--IMPLICATIONS FOR GUIDANCE AND COUNSELING. June 1971. 32pp. (Conference Report) ED 051 540 RIE October 1971 MF-\$0.65 HC-\$3.29

An examination of the youth culture is presented. Also included are the implications for counselors working in college or

secondary schools. The ERIC system is described and emphasis is placed on how school and college counselors can use the system to help them counsel more effectively.

- 71-060 Walz, Garry R., and others. PROCEEDINGS OF ERIC/CAPS AS WACES: A FUTURISTIC LOOK AT GUIDANCE AND COUNSELOR EDUCATION. June 1971. 23pp. (Conference Report) ED 051 541 RIE October 1971 MF-\$0.65 HC-\$3.29

Conclusions reached in the ACES study on the adoption of innovations are presented. Twenty-five generalizations about the future are presented along with the implications these changes in the structure of society will have for the counselor educator. Counselors' roles and techniques for the future are suggested and discussed.

- 71-061 Walz, Garry R. "Technology in Guidance: A Conceptual Overview." THE PERSONNEL AND GUIDANCE JOURNAL, v49 n3, pp.175-184, November 1970. 4pp. (Journal Article)

The appropriate guidance use of technology, is not just one of designing machines but rather of discovering how to use technology to realize counselors' personal and societal goals. The future of guidance could well depend on the capacity of the counseling profession to utilize technology effectively.

EDUCATIONAL MANAGEMENT (EA)

- 71-062 ALTERNATIVE ORGANIZATIONAL FORMS. ANALYSIS OF LITERATURE AND SELECTED BIBLIOGRAPHY. Analysis and Bibliography Series, Number 2. September 1970. 23pp. (Bibliography) ED 043 111 RIE February 1971 MF-\$0.65 HC-\$3.29

A review of literature about attempted modification of traditional organizational features in educational systems involves instructional approaches, time-scheduling alterations, and new forms. A 156-item bibliography is included.

- 71-063 CITIZEN INVOLVEMENT IN THE CONTROL OF SCHOOLS. ERIC Abstracts: A Collection of ERIC Document Resumes. ERIC Abstracts Series, Number 13. November 1970. 28pp. (Bibliography) ED 044 832 RIE April 1971 MF-\$0.65 HC-\$3.29

Resumes of 41 ERIC documents that were announced in *Research in Education* through November 1970 are listed. A subject index is cross-referenced with the document listing.

- 71-064 DEVELOPING VOCATIONAL EDUCATION PROGRAMS IN THE PUBLIC SCHOOLS. ERIC Abstracts: A Collection of ERIC Document Resumes. ERIC Abstracts Series, Number 17. March 1971. 43pp. (Bibliography) ED 048 664 RIE July 1971 MF-\$0.65 HC-\$3.29

Resumes of 65 ERIC documents that were announced in *Research in Education* through February 1971 are listed. A subject index is cross-referenced with the document listing.

- 71-065 DIFFERENTIATED STAFFING. ERIC Abstracts: A Collection of ERIC Document Resumes.

ERIC Abstracts Series, Number 19. April 1971. 34pp. (Bibliography) ED 048 673 RIE July 1971 MF-\$0.65 HC-\$3.29

Resumes of 46 ERIC documents that were announced in *Research in Education* through March 1971 are listed. A subject index is cross-referenced with the document listing.

- 71-066 THE DRUG PROBLEM AND THE SCHOOLS. ERIC Abstracts: A Collection of ERIC Document Resumes. ERIC Abstracts Series, Number 16. March 1971. 24pp. (Bibliography) ED 047 430 RIE June 1971 MF-\$0.65 HC-\$3.29

Resumes of 36 ERIC documents that were announced in *Research in Education* through December 1970 are listed. A subject index is cross-referenced with the document listing.

- 71-067 EDUCATIONAL AND SOCIAL DEMANDS ON THE SCHOOLS. ANALYSIS OF LITERATURE AND SELECTED BIBLIOGRAPHY. Analysis and Bibliography Series, Number 1. September 1970. 17pp. (Bibliography) ED 043 110 RIE February 1971 MF-\$0.65 HC-\$3.29

An analysis of literature dealing with the expectations and demands of the public for their schools pays particular attention to the research assessing variations in such expectations and demands. A 65-item bibliography is included.

- 71-068 EDUCATIONAL ASSESSMENT. ERIC Abstracts: A Collection of ERIC Document Resumes. ERIC Abstracts Series, Number 9. September 1970. 31pp. (Bibliography) ED 044 770 RIE April 1971 MF-\$0.65 HC-\$3.29

Resumes of 48 ERIC documents that were

announced in *Research in Education* through August 1970 are listed. A subject index is cross-referenced with the document listing.

- 71-069 EDUCATIONS PLANNING. ERIC Abstracts: A Collection of ERIC Document Resumes. ERIC Abstracts Series, Number 14. 32pp. (Bibliography) ED 046 091 RIE May 1971 MF-\$0.65 HC-\$3.29

Resumes of 51 ERIC documents that were announced in *Research in Education* through December 1970 are listed. A subject index is cross-referenced with the document listing.

- 71-070 EVALUATING TEACHER EFFECTIVENESS. ERIC Abstracts: A Collection of ERIC Document Resumes. ERIC Abstracts Series, Number 20. April 1971. 28pp. (Bibliography) EA 003 465 RIE issue unknown MF-\$0.65 HC-\$3.29

Resumes of 35 ERIC documents that were announced in *Research in Education* through March 1971 are listed. A subject index is cross-referenced with the document listing.

- 71-071 INSERVICE EDUCATION FOR STAFF AND ADMINISTRATORS. ERIC Abstracts: A Collection of ERIC Document Resumes. ERIC Abstracts Series Number 11. October 1970. 42pp. (Bibliography) ED 044 830 RIE April 1971 MF-\$0.65 HC-\$3.29

Resumes of 64 ERIC documents that were announced in *Research in Education* through October 1970 are listed. A subject index is cross-referenced with the document listing.

- 71-072 INTRODUCTION PLANS (MARKETING PLANS). ANALYSIS OF LITERATURE AND SELECTED BIBLIOGRAPHY. Analysis and Bibliography Series, Number 11. September 1970. 19pp. (Bibliography) ED 043 120 RIE February 1971 MF-\$0.65 HC-\$3.29

The review focuses on evidence of means of disseminating new instructional programs, and evidence of how to foster local adoption of new instructional programs. A 77-item bibliography is included.

- 71-073 LINKING SCHOOLS AND STATE EDUCATION DEPARTMENTS TO RESEARCH AND DEVELOPMENT AGENCIES. ANALYSIS OF LITERATURE AND SELECTED BIBLIOGRAPHY. Analysis and Bibliography Series, Number 9. September 1970. 14pp. (Bibliography) ED 043 118 RIE February 1971 MF-\$0.65 HC-\$3.29

The review analyzes evidence of existing and developing linkages of research and development agencies to state and local units, adequacy and unmet needs for such linkages, and possible alternatives for more effective and efficient linkages. A 43-item bibliography is included.

- 71-074 LINKING SCHOOLS TO STATE EDUCATION DEPARTMENTS. ANALYSIS OF LITERATURE AND SELECTED BIBLIOGRAPHY. Analysis and Bibliography Series, Number 8. September 1970. 19pp. (Bibliography) ED 043 117 RIE February 1970 MF-\$0.65 HC-\$3.29

This analysis focuses on current patterns of linkages of local districts to state education departments, evidence of

effectiveness and cost-benefits of such linkages, and proposed, developing, or potential types of state-local arrangements. An 85-item bibliography is included.

- 71-075 MANAGEMENT INFORMATION SYSTEMS. ANALYSIS OF LITERATURE AND SELECTED BIBLIOGRAPHY. Analysis and Bibliography Series, Number 4. September 1970. 14pp. (Bibliography) ED 043 113 RIE February 1971 MF-\$0.65 HC-\$3.29

An analysis of literature on applications of management information system tools to educational management outlines activities taking place on three levels of management--operational control, management control, and strategic planning. The bibliography includes 47 items.

- 71-076 MODELS FOR PLANNING. ANALYSIS OF LITERATURE AND SELECTED BIBLIOGRAPHY. Analysis and Bibliography Series, Number 5. September 1970. 17pp. (Bibliography) ED 043 114 RIE February 1971 MF-\$0.65 HC-\$3.29

This review analyzes current research trends in the application of planning models to broaden educational systems, including systems approach, simulation, operational gaming, linear programming, Markov chain analysis, dynamic programming, and queuing techniques. A 77-item bibliography is included.

- 71-077 ORGANIZATIONAL RENEWAL: CHANGE AND THE SCHOOL ADMINISTRATOR. ERIC Abstracts: A Collection of ERIC Document Resumes. ERIC Abstracts Series, Number 18. March 1971. 31pp. (Bibliography) ED 048 665 RIE July 1971 MF-\$0.65 HC-\$3.29

Resumes of 44 ERIC documents that were announced in *Research in Education* through February 1971 are listed. A subject index is cross-referenced with the document listing.

- 71-078 PERFORMANCE OBJECTIVES. ERIC Abstracts: A Collection of ERIC Document Resumes. ERIC Abstracts Series, Number 12. November 1970. 35pp. (Bibliography) ED 044 831 RIE April 1971 MF-\$0.65 HC-\$3.29

Resumes of 55 ERIC documents that were announced in *Research in Education* through October 1970 are listed. A subject index is cross-referenced with the document listing.

- 71-079 THE POLITICS AND ECONOMICS OF SCHOOL FINANCE. ERIC Abstracts: A Collection of ERIC Document Resumes. ERIC Abstracts Series, Number 15. March 1971. 26pp. (Bibliography) ED 047 429 RIE June 1971 MF-\$0.65 HC-\$3.29

Resumes of 35 ERIC documents that were announced in *Research in Education* through December 1970 are listed. A subject index is cross-referenced with the document listing.

- 71-080 PROCEDURES FOR MANAGING INNOVATIONS. ANALYSIS OF LITERATURE AND SELECTED BIBLIOGRAPHY. Analysis and Bibliography Series, Number 7. September 1970. (Bibliography) ED 043 116 RIE February 1971. MF-\$0.65 HC-\$3.29

The review analyzes current evidence on how local schools identify, judge, install, evaluate, and maintain innovations, discusses facilitators and inhibitors of innovation in schools and assesses unmet needs in assisting schools in the adoption and installation of innovations. A 78-item bibliography is included.

- 081 THE SCHOOL PRINCIPALSHIP: CRISIS IN MIDDLE MANAGEMENT. ERIC Abstracts: A Collection of ERIC Document Resumes. ERIC Abstracts Series Number, 10. September 1970. 47pp. (Bibliography) ED 044 771 RIE April 1971 MF-\$0.65 HC-\$3.29

Resumes of 75 ERIC documents that were announced in *Research in Education* through August 1970 are listed. A subject index is cross-referenced with the document listing.

- 082 Alkin, Marvin C. and Bruno, James E. "System Approaches to Educational Planning. State-of-the-Knowledge Series, Number 4." Part 4 of SOCIAL AND TECHNOLOGICAL CHANGE: IMPLICATIONS FOR EDUCATION, December 1970. 54pp. (State-of-the-Art Review) ED 049 563 RIE August 1971 (The complete document, Parts 1-5, is available as ED 044 833 RIE April 1971. See 71-094.)

Part 4 discusses applications of systems approaches to educational planning. The authors review various systems planning techniques: operations research, planning-programming-budgeting systems, systems analysis, simulations, operational gaming, Delphi technique, program evaluation review technique, and critical path method.

- 083 Evans, John A. "Educational Management Information Systems: Progress and Prospectives. State-of-the-Knowledge Series, Number 5." Part 5 of SOCIAL AND TECHNOLOGICAL CHANGE: IMPLICATIONS FOR EDUCATION, December 1970. 85pp. (State-of-the-Art Review) ED 049 564 RIE August 1971 (The complete document, Parts 1-5, is available as ED 044 833 RIE April 1971. See 71-094.)

The final paper defines key terms and concepts of computer-based management information systems. The author reviews landmark developments in the evolution of information technology and summarized likely future developments.

- 084 Farquhai, Robin H. THE HUMANITIES IN PREPARING EDUCATIONAL ADMINISTRATORS. State-of-the-Knowledge Series, Number 7. November 1970. 65pp. (State-of-the-Art Review) ED 044 765 RIE April 1971 MF-\$0.65 HC-\$3.29

An analysis of the literature dealing with the use of the humanities in preparing educational administrators relates the knowledge "in print" to that "in practice," gathering information on the experiences of several universities in implementing humanities programs, and describing four of the existing programs.

- 085 Gaddy, Dale RIGHTS AND FREEDOMS OF PUBLIC SCHOOL STUDENTS: DIRECTIONS FROM THE 1960's. State-of-the-Knowledge Series, Number 9. NOLPE Monograph Series, Number 2. April 1971. 67pp. (State-of-the-Art Review)

ED 048 666 RIE July 1971 MF-\$0.65 HC-\$3.29

The paper investigates the literature and judicial decisions on the students' rights movement, freedom of expression, freedom of religion, freedom from unauthorized searches, and the right to due process.

- 71-086 Hall, John S. MODELS FOR RATIONAL DECISION MAKING. ANALYSIS OF LITERATURE AND SELECTED BIBLIOGRAPHY. Analysis and Bibliography Series, Number 6. September 1970. 15pp. (Bibliography) ED 043 115 RIE February 1971 MF-\$0.65 HC-\$3.29

The analysis focuses on current or developing decision-making models and strategies in education and evidence of their effectiveness, and existing or possible alternative models of authority systems and decision processes in schools. A ~~54-item~~ bibliography is included.

- 71-087 Harnan, Willis W. "The Nature of Our Changing Society: Implications for Schools. State-of-the-Knowledge Series, Number 1." Part 1 of SOCIAL AND TECHNOLOGICAL CHANGE: IMPLICATIONS FOR EDUCATION, December 1970. 69pp. (State-of-the-Art Review) ED 049 560 RIE August 1971 (The complete document, Parts 1-5 is available as ED 044 833 RIE April 1971. See 71-094.)

This paper presents a broad overview of our changing society and the implications for the future of education. Providing a conceptual framework for understanding the direction and nature of plausible "alternative futures" for society, the author examines the belief and value systems supporting two of these alternatives--the "second-phase" industrial society and the "person-centered" society.

- 71-088 Jackson, Kathleen O. THE POLITICS OF SCHOOL-COMMUNITY RELATIONS. Research Analysis Series, Number 2. 32pp. (Literature Review) ED 048 625 RIE July 1971 MF-\$0.65 HC-\$3.29

In a general review of recent literature dealing with political aspects of relations between school and community, this paper discusses how school board members, superintendents, community influentials, citizens, and community settings interact politically to affect educational issues.

- 71-089 Kaufman, Roger A. "System Approaches to Education: Discussion and Attempted Integration. State-of-the-Knowledge Series, Number 3." Part 3 of SOCIAL AND TECHNOLOGICAL CHANGE: IMPLICATIONS FOR EDUCATION, December 1970. 68pp. (State-of-the-Art Review) ED 049 562 RIE August 1971 (The complete document, Parts 1-5 is available as ED 044 833 RIE April 1971. See 71-094)

The third paper defines a system approach as the application of formal problem-solving tools and techniques for effectively and efficiently achieving a desired outcome based on documented needs. The author proposes a six-step model integrating a number of techniques for the improvement of educational outcomes.

- 71-090 Nolte, M. Chester. STATUS AND SCOPE OF COLLECTIVE BARGAINING IN PUBLIC EDUCATION. State-of-the-Knowledge Series, Number 6. October 1970. 62pp. (State-of-the-Art Review) ED 043 100 RIE February 1970 MF-\$0.65 HC-\$3.29

Tracing the history of collective bargaining in education, the author compares the traditional approach to school personnel administration with the collective bargaining approach, analyzes state statutes on collective bargaining, discusses grievance procedures, and offers conclusions and predictions for the development of school personnel administration.

- 71-091 Phay, Robert E. SUSPENSION AND EXPULSION OF PUBLIC SCHOOL STUDENTS. State-of-the-Knowledge Series, Number 10. NOLPE Monograph Series, Number 3. April 1971. 49pp. (State-of-the-Art Review) ED 048 672 RIE July 1971 MF-\$0.65 HC-\$3.29

The paper focuses on two areas regarding suspension and expulsion of public school students: the authority of school boards to suspend or expel students, and the procedural requirements necessary for disciplinary proceedings.

- 71-092 Piele, Philip K. NEW PROGRAMS FOR TRAINING SCHOOL ADMINISTRATORS. ANALYSIS OF LITERATURE AND SELECTED BIBLIOGRAPHY. Analysis and Bibliography Series, Number 10. September 1970. 18pp. (Bibliography) ED 043 119 RIE February 1971 MF-\$0.65 HC-\$3.29

This analysis reviews the effectiveness of existing alternative approaches to training administrators, emerging training programs, and leads for design of new training programs, materials, and experiences. A 69-item bibliography is included.

- 71-093 Piele, Philip K. NEW SETS OF JOBS FOR SCHOOL PERSONNEL. ANALYSIS OF LITERATURE AND SELECTED BIBLIOGRAPHY. Analysis and Bibliography Series, Number 3. September 1970. 18pp. (Bibliography) ED 043 112 RIE February 1971 MF-\$0.65 HC-\$3.29

An analysis of the trend toward differentiation of elementary and secondary school instructional staffs to involve teacher aides, technical assistants, clerical assistants, and staff specialists in addition to professional teachers redefines professional and nonprofessional roles. A 96-item bibliography is included.

- 71-094 Piele, Philip K. and others, eds. SOCIAL AND TECHNOLOGICAL CHANGE. IMPLICATIONS FOR EDUCATION. 1970. 341pp. (Conference Report) ED 044 833 RIE April 1971 MF-\$0.65 HC-\$13.16 also available from Publications

Department, Center for the Advanced Study of Educational Administration, Hendricks Hall, University of Oregon, Eugene, Oregon 97403 (\$7.75)

The five Conference papers are: (1) The Nature of Our Changing Society: Implications for Schools. (2) Teacher Militancy: Implications for the Schools. (3) System Approaches to Education: Discussion and Attempted Integration. (4) System Approaches to Educational Planning. and (5) Educational Management Information Systems: Progress and Prospectives. (For the individual papers, please see 71-087, 71-097, 71-089, 71-082, 71-083)

- 71-095 Reutter, E. Elmond, Jr. LEGAL ASPECTS OF CONTROL OF STUDENT ACTIVITIES BY PUBLIC SCHOOL OFFICIALS. State-of-the-Knowledge Series, Number 8. NOLPE Monograph Series, Number 1. December 1970. 60pp. (State-of-the-Art Review) ED 044 829 RIE April 1971 MF-\$0.65 HC-\$3.29

This paper is the first in a series of five monographs on the general topic of student control and student rights in the public schools. The author reviews relevant court decisions in the areas of rights of parents and students, rules of conduct, dress and appearance, secret societies, married students and mothers, expression of opinion, and publications.

- 71-096 Reis, Larry L. TAXATION IN PUBLIC EDUCATION. Analysis and Bibliography Series, Number 12. March 1971. 17pp. (Bibliography) ED 049 516 RIE August 1971 MF-\$0.65 HC-\$3.29

Intended for both researchers and practitioners, this analysis and bibliography lists approximately one hundred publications, including studies on property taxes and school finance, area studies, statistical reports and analytical studies, urban and suburban school finance reports, and guidelines and alternative proposals for educational taxation.

- 71-097 Williams, Richard C. "Teacher Militancy: Implications for the Schools. State-of-the-Knowledge Series, Number 2." Part 2 of SOCIAL AND TECHNOLOGICAL CHANGE: IMPLICATIONS FOR EDUCATION, December 1970. 48pp. (State-of-the-Art Review) ED 049 561 RIE August 1971 (The complete document, Parts 1-5 is available as ED 044 833 RIE April 1971. See 71-094.)

In Part 2 the author analyzes the internal and external conditions contributing to the rise of teacher militancy in the public schools and describes three alternative models for increasing teacher participation in school decisions.

EXCEPTIONAL CHILDREN (EC)

- 71-098 COGNITIVE AND AFFECTIVE CHARACTERISTICS OF EXCEPTIONAL CHILDREN. PAPERS PRESENTED AT THE ANNUAL INTERNATIONAL CONVENTION OF THE COUNCIL FOR EXCEPTIONAL CHILDREN (48th, CHICAGO, ILLINOIS, APRIL 19-25, 1970). 60pp. (Convention Papers) ED 039 379 RIE October 1970 MF-\$0.65 HC-\$3.29

The Language Acquisition Device is related to reading and intellectual development in the first of five papers on cognitive and affective characteristics of exceptional children. Also considered are the implications of research for the education of the trainable mentally handi-

capped and the development of a positive self concept in the retarded.

- 99 EARLY CHILDHOOD. PAPERS PRESENTED AT THE ANNUAL INTERNATIONAL CONVENTION OF THE COUNCIL FOR EXCEPTIONAL CHILDREN (48th, CHICAGO, ILLINOIS, APRIL 19-25, 1970) 123pp. (Convention Papers) ED 039 385 RIE October 1970 MF-\$0.65 HC-\$6.58

Discussions are concerned with the effectiveness of teaching selected reading skills to children 2 to 4 years by television, educational materials as an aid in evaluation of preschool multihandicapped children, and the use of instructional materials with multihandicapped preschool children. Additional papers present a progress report of a project in early identification and remediation of learning problems in elementary school children attempting to increase classroom success, and a panel of research findings with programs for preschool children and parents.

- 00 EXCEPTIONAL CHILDREN CONFERENCE PAPERS: ADMINISTRATIVE PROCEDURES AND PROGRAM ORGANIZATION. PAPERS PRESENTED AT THE NORTHWEST REGIONAL CONFERENCE (VANCOUVER, BRITISH COLUMBIA, OCTOBER 21-24, 1970). 134pp. (Convention Papers) ED 047 447 RIE June 1971 MF-\$0.65 HC-\$6.58

The nine papers include an introduction to interdistrict cooperatives; special education and government; problems in rural areas; work experience programs for the educable mentally handicapped; a community work study endeavor; programs for the multiply handicapped, and a multidiscipline approach for the treatment of multiply handicapped children; and a description of a work oriented school for educable mentally handicapped.

- 101 EXCEPTIONAL CHILDREN CONFERENCE PAPERS: ADOPTION OF TECHNOLOGY AND PROGRAM DEVELOPMENT. PAPERS PRESENTED AT THE SPECIAL CONFERENCE ON INSTRUCTIONAL TECHNOLOGY (SAN ANTONIO, TEXAS, DECEMBER 1-4, 1970). 56pp. (Convention Papers) ED 047 440 RIE June 1971 MF-\$0.65 HC-\$3.29

The four papers cover the issues of adopting technology in local schools; adoption of instructional technology, as part of curriculum development in mental retardation, and as partial fulfillment of community needs; and media and curriculum research and its implications for improved program development.

- 102 EXCEPTIONAL CHILD CONFERENCE PAPERS: COMMUNICATION, PRODUCTION, AND DISSEMINATION OF INSTRUCTIONAL TECHNOLOGY. PAPERS PRESENTED AT THE SPECIAL CONFERENCE ON INSTRUCTIONAL TECHNOLOGY (SAN ANTONIO, TEXAS, DECEMBER 1-4, 1970). 43pp. (Convention Papers) ED 047 443 RIE June 1971 MF-\$0.65 HC-\$3.29

The four papers focus on such areas as the dissemination process for instructional media, the application of a total information packaging system for dissemination of

research products, communicating technology, and the building technology for the development of educational products.

- 71-103 EXCEPTIONAL CHILDREN CONFERENCE PAPERS: THE IMPROVEMENT OF SPECIAL EDUCATION THROUGH INSTRUCTIONAL TECHNOLOGY. PAPERS PRESENTED AT THE SPECIAL CONFERENCE ON INSTRUCTIONAL TECHNOLOGY (SAN ANTONIO, TEXAS, DECEMBER 1-4, 1970). 38pp. (Convention Papers) ED 047 442 RIE June 1971 MF-\$0.65 HC-\$3.29

The papers examine educational technology as a program objective of the Bureau of Education for the Handicapped, and the search for better support systems necessary in order to create the bonds that will be required in a future special educational system.

- 71-104 EXCEPTIONAL CHILDREN CONFERENCE PAPERS: INSTRUCTIONAL TECHNOLOGY FOR PERSONNEL TRAINING. PAPERS PRESENTED AT THE SPECIAL CONFERENCE ON INSTRUCTIONAL TECHNOLOGY (SAN ANTONIO, TEXAS, DECEMBER 1-4, 1970). 102pp. (Convention Papers) ED 047 441 RIE June 1971 MF-\$0.65 HC-\$6.58

Included in the collection are papers on demonstration projects in instructional technology (purposes, planning, and problems), instructional technology as defined and applied to personnel training, packaging parental materials for teaching self help skills to multiply handicapped children, a new media specialists training program, accountability in teacher preparation, teacher-directed in-service education (as change agent for instructional technology), long distance microtraining, and packaged self instruction materials for isolated teachers of the handicapped.

- 71-105 EXCEPTIONAL CHILDREN CONFERENCE PAPERS: INVOLVEMENT OF PARENTS IN SCHOOL PROGRAMS. PAPERS PRESENTED AT THE NORTHWEST REGIONAL CONFERENCE (VANCOUVER, BRITISH COLUMBIA, OCTOBER 21-24, 1970). 17pp. (Convention Papers) ED 047 448 RIE June 1971 MF-\$0.65 HC-\$3.29

The four papers discuss: the area of work with parents of exceptional children, work with parents of preschoolers, parents who have children in a residential school, and the parental emotional response to mental retardation and professional support.

- 71-106 EXCEPTIONAL CHILDREN CONFERENCE PAPERS: PRE- AND INSERVICE TEACHER TRAINING. PAPERS PRESENTED AT THE NORTHWEST REGIONAL CONFERENCE (VANCOUVER, BRITISH COLUMBIA, OCTOBER 21-24, 1970). 45pp. (Convention Papers) ED 047 445 RIE June 1971 MF-\$0.65 HC-\$3.29

The eight papers cover the role of university personnel in the training of special education, training from the point of view of a director of special education, the role of the clinical professor in upgrading special education teacher training programs, the teacher as part of the special education training team, the how and why of inservice programs, and professional preparation in recreation and physical education for the handicapped.

- 71-107 EXCEPTIONAL CHILDREN CONFERENCE PAPERS: SOCIAL AND INSTITUTIONAL CHANGES IN SPECIAL EDUCATION. PAPERS PRESENTED AT THE NORTHWEST REGIONAL CONFERENCE (VANCOUVER, BRITISH COLUMBIA, OCTOBER 21-24, 1970). 42pp. (Convention Papers) ED 047 446 RIE June 1971 MF-\$0.65 HC-\$3.29

The five papers discuss the importance of self concept in the development of exceptional children; the elimination for all children of school failure, exclusion, and discrimination; synergy as applied to special education; the challenge of institutional change; and the social revolution and special education.

- 71-108 EXCEPTIONAL CHILDREN CONFERENCE PAPERS: TRAINING STRATEGIES, METHODS, AND INSTRUCTIONAL MATERIALS. PAPERS PRESENTED AT THE NORTHWEST REGIONAL CONFERENCE (VANCOUVER, BRITISH COLUMBIA, OCTOBER 21-24, 1970). 131pp. (Convention Papers) ED 047 449 RIE June 1971 MF-\$0.65 HC-\$6.58

An optometrist's view of perceptual training for children with learning problems; developmental vision and learning; the role of the educator in assessment; an examination of an educational methodology; a theoretical framework for the establishment of a special education instructional materials center network in Canada; pre-school training for the nursery age retarded child; development of critical thinking through use of the Guilford model; cooperation and interaction of American and Canadian special education; and a report on the panel concerning a regional resource center for handicapped children and its impact on Northwest schools are among papers included.

- 71-109 EXCEPTIONAL CHILDREN CONFERENCE PAPERS: THE USE AND EVALUATION OF INSTRUCTIONAL TECHNOLOGY IN THE CLASSROOM. PAPERS PRESENTED AT THE SPECIAL CONFERENCE ON INSTRUCTIONAL TECHNOLOGY (SAN ANTONIO, TEXAS, DECEMBER 1-4, 1970). 90pp. (Convention Papers) ED 047 444 RIE June 1971 MF-\$0.65 HC-\$3.29

The ten papers examine such areas as stimulation of the learning process through technology, the use of the paraprofessional as an interface through programmed tutoring in the teaching of reading, the modular instructional system as an interface, man-machine interfaces in training optacon readers, a computer assisted instruction course in the early identification of handicapped children, evaluation of instructional materials and prediction of student performance, validation of learning modules, and instructional resources and their application to a child centered learning process.

- 71-110 THE HEARING IMPAIRED. PAPERS PRESENTED AT THE ANNUAL INTERNATIONAL CONVENTION OF THE COUNCIL FOR EXCEPTIONAL CHILDREN (48th, CHICAGO, ILLINOIS, APRIL 19-25, 1970) 34pp. (Convention Papers) ED 039 381 RIE October 1970 MF-\$0.65 HC-\$3.29

Papers reported include a suggested approach to the evaluation of expressive oral syntactic competence of the aurally handicapped child, the language of children receiving aural linguistic input, and implications of the linguistic approach for the classroom teacher.

- 71-111 MEDICAL INTERVENTION AND THE PROBLEM OF DRUGS. PAPERS PRESENTED AT THE ANNUAL INTERNATIONAL CONVENTION OF THE COUNCIL FOR EXCEPTIONAL CHILDREN (48th, CHICAGO, ILLINOIS, APRIL 19-25, 1970). 41pp. (Convention Papers) ED 039 384 RIE October 1970 MF-\$0.65 HC-\$3.29

Papers are concerned with medical views of children with minimal brain dysfunction, medical intervention in maladaptive classroom behavior, medical intervention and the pediatrician's role in the behavior of learning of disabled children, and the evolution of the drug problem.

- 71-112 "Precision Teaching in Perspective: An Interview with Ogden Lindsley." TEACHING EXCEPTIONAL CHILDREN, v3 n3, pp. 114-119, Spring 1971. 6pp. (Journal Article)

In this interview, Dr. Lindsley described the origins of precision teaching, how it differs from behavior modification, and the present and future implications of precision teaching for special and regular education.

- 71-113 PREPARATION OF PERSONNEL. PAPERS PRESENTED AT THE ANNUAL INTERNATIONAL CONVENTION OF THE COUNCIL FOR EXCEPTIONAL CHILDREN (48th, CHICAGO, ILLINOIS, APRIL 19-25, 1970). 119pp. (Convention Papers) ED 039 387 RIE October 1970 MF-\$0.65 HC-\$6.58

The workshop proceedings discuss innovations in teacher training, a prescriptive teaching system, and a crisis model of teacher training. Topics also concern the future of training administrators, the movement of nonprofessional personnel to teaching positions, and the training of professionals and paraprofessionals in early intervention with atypical infants.

- 71-114 SPECIAL CLASS PLACEMENT--A CONTINUING DEBATE. PAPERS PRESENTED AT THE ANNUAL INTERNATIONAL CONVENTION OF THE COUNCIL FOR EXCEPTIONAL CHILDREN (48th, CHICAGO, ILLINOIS, APRIL 19-25, 1970). 34pp. (Convention Papers) ED 039 383 RIE October 1970 MF-\$0.65 HC-\$3.29

Discussions concern themselves with love of life, truth, and others, the efficacy of special placement for educable mentally handicapped children, and the destructiveness of special placement. Additional speeches describe the efficacy of special placement for the educable mentally handicapped, and the prospects of the mentally handicapped for the future.

- 71-115 SPEECH, LANGUAGE, AND COMMUNICATION DISORDERS. PAPERS PRESENTED AT THE ANNUAL INTERNATIONAL CONVENTION OF THE COUNCIL FOR EXCEPTIONAL CHILDREN (48th, CHICAGO, ILLINOIS, APRIL 19-25, 1970). 98pp. (Convention

papers) ED 039 380 RIE October 1970 MF-\$0.65 HC-\$3.29

Discussions include evaluation theory and caseload selection, differential diagnosis in a rural school, the practical application of differential diagnosis for urban school clinicians, the use of motor and language development scales, and the Ohio Tests of Articulation and Perception of Sounds. Additional papers are concerned with the therapy implications of recent developments in psycholinguistics, implications for new speech techniques with the neurologically impaired, the Bobath neurodevelopmental treatment in speech therapy, and the effects of sensory modality stimulation on the dysarthria of cerebral palsy.

- 116 STIMULATING THE ENVIRONMENT FOR DISADVANTAGED AND MINORITY GROUP CHILDREN. PAPERS PRESENTED AT THE ANNUAL INTERNATIONAL CONVENTION OF THE COUNCIL FOR EXCEPTIONAL CHILDREN (48th, CHICAGO, ILLINOIS, APRIL 19-25, 1970). 40pp. (Convention Papers) ED 039 382 RIE October 1970 MF-\$0.65 HC-\$3.29

Discussed are the positive influence on self concept of the new black image, the special needs of black students, and new programs for talent retrieval in urban centers. Additional papers concern new ways to retrieve talent, and the rise and fall of the Lincoln School.

- 1-117 TEACHING STRATEGIES, METHODS, AND MATERIALS. PAPERS PRESENTED AT THE ANNUAL INTERNATIONAL CONVENTION OF THE COUNCIL FOR EXCEPTIONAL CHILDREN (48th, CHICAGO, ILLINOIS, APRIL 19-25, 1970). 114pp. (Convention Papers) ED 039 378 RIE October 1970 MF-\$0.65 HC-\$6.58

The report includes papers on the following topics: a workshop report on the team approach in using educational media, means of decelerating disruptive classroom behavior, the promotion of motor development in young retardates, the use of pictorial symbols to teach reading to the mentally handicapped, and cognitive training with the educable mentally handicapped.

- 1-118 VOCATIONAL EDUCATION AND WORK STUDY PROGRAMS. PAPERS PRESENTED AT THE ANNUAL INTERNATIONAL CONVENTION OF THE COUNCIL FOR EXCEPTIONAL CHILDREN (48th, CHICAGO, ILLINOIS, APRIL 19-25, 1970). 67pp. (Convention Papers) ED 039 386 RIE October 1970 MF-\$0.65 HC-\$3.29

The implementation of a work-study program in a rural depressed area, the operation of the program, and evaluation are discussed in the first of six papers on vocational education for the retarded.

- 1-119 Banas, Norma and Wills, I.H. "The Associative Memory Link." TEACHING EXCEPTIONAL CHILDREN, v3 n2, pp. 67-69, Winter 1971. 3pp. (Journal Article)

The use of pictograms to provide visualization for abstract ideas is discussed and illustrated in this article.

- 71-120 Bates, Stephanie and Bates, Douglas F. "'...and a Child Shall Lead Them': Stephanie's Chart Story." TEACHING EXCEPTIONAL CHILDREN, v3 n3, pp. 111-113, Spring 1971. 4pp. (Journal Article)

Stephanie Bates, a kindergarten student, explains the basic structure and use of the Standard Daily Behavior Chart.

- 71-121 Blum, Evelyn R. "CEC ERIC's the Now Way to Know: The Madison Plan as an Alternative to Special Class Placement: An Interview with Frank Hewett." EDUCATION AND TRAINING OF THE MENTALLY RETARDED, v6 n1, February 1971. 14pp. (Journal Article)

Dr. Hewett, developer of the Madison Plan in the Santa Monica, California public schools, discusses behavior modification and other alternatives to disability grouping and special class placement.

- 71-122 Blum, Evelyn R. "CEC ERIC's the Now Way to Know: A Research and Demonstration Approach to Special Education in the 70's--Interview with Leonard S. Blackman." EDUCATION AND TRAINING OF THE MENTALLY RETARDED, v5 n4, December 1970. 8pp. (Journal Article)

Discussed in this interview are the current research efforts which attack problems of concern to the classroom teacher.

- 71-123 Blum, Evelyn R. "Conversations in Training and Research. Interview with George Sheperd: An R&D Center Focuses on Early Childhood Education." EXCEPTIONAL CHILDREN, v37 n9, May 1971. 6pp. (Journal Article)

Dr. Sheperd discusses the importance of early childhood education and the activities in this area of the Research and Demonstration Center in Early Childhood Education of the Handicapped (University of Oregon).

- 71-124 Blum, Evelyn R. "Conversations in Training and Research. Interview with Jasper Harvey: Development of a Staff Training Prototype for Early Childhood Centers." EXCEPTIONAL CHILDREN, v37 n9, May 1971. 5pp. (Journal Article)

Dr. Harvey discusses the major components and functions of the early childhood staff training program at the University of Texas at Austin and the approach used with children in the model classroom.

- 71-125 Boyd, Mary Ann. "Articles, Books, and Documents on Early Childhood Education: A Selected Bibliography." EXCEPTIONAL CHILDREN, v37 n9, May 1971. 7pp. (Journal Article)

This bibliography was compiled from *Exceptional Child Education Abstracts* to complement this issue on early childhood education. It is a practical list of materials of interest to teachers and parents and does not include research reports.

- 71-126 Calvert, Donald R. "Dimensions of Family Involvement in Early Childhood Education." EXCEPTIONAL CHILDREN, v39 n9, May 1971. 5pp. (Journal Article)

- The five questions related to early childhood education that are answered in this article are: Who among family members should participate? What is the nature of their involvement? Why should they participate? When do they become involved? Where does their participation take place? How is their participation induced?
- 127 Christoplos, Florence. "Prescriptive Teaching--A Cognitive Approach to Social and Interpersonal Learning." *TEACHING EXCEPTIONAL CHILDREN*, v2 n4, pp.158-162, Summer 1970. 5pp. (Journal Article)
- The author describes a work-study program in which pay was used successfully to simulate a job situation as academic prescriptions.
- 128 Cohen, Marilyn A. and Martin, Grant L. "Applying Precision Teaching to Academic Assessment." *TEACHING EXCEPTIONAL CHILDREN*, v3 n3, pp.147-150, Spring, 1971. 4pp. (Journal Article)
- In the project shared, precision teaching was used to evaluate a nonperforming learning disabled student's difficulty with basic addition facts; to work out a change in the teaching plan which could improve his addition skills; and to evaluate the student's performance in determining the effect of the change.
- 129 Cooper, John O., and others. "Food for Thought: An Objective Approach to Changing Children's Food Preferences." *TEACHING EXCEPTIONAL CHILDREN*, v3 n2, pp.73-76, Winter 1971. 4pp. (Journal Article)
- Procedures for determining and changing children's food preferences are described.
- 130 Dailey, Rebecca, and others. *THESAURUS FOR EXCEPTIONAL CHILD EDUCATION*. October 1970. 13pp. (Thesaurus) ED 042 320 RIE January 1971 MF-\$0.65 HC-\$3.29
- This thesaurus of 1,350 terms is a distillation of the regular *Thesaurus of ERIC Descriptors*. These terms are the ones considered most appropriate and useful for exceptional child education. The terms are most applicable to the literature of professional documents, research reviews and reports, curriculum guides, and journal articles.
- 1-131 Duncan, Ann Dell. "The View From the Inner Eye: Personal Management of Inner and Outer Behaviors." *TEACHING EXCEPTIONAL CHILDREN*, v3 n3, pp.152-156, Spring 1971. 5pp. (Journal Article)
- Two projects are described in which a 3 1/2 year old girl and a 12 year old girl are taught to count their inner and outer behaviors and to utilize precise behavior management tools to change these behaviors.
- 71-132 Fineblum, Carol M. *KEY ISSUES CONCERNING THE ADOPTION OF THE METRIC SYSTEM AND IMPLICATIONS FOR THE EDUCATION OF EXCEPTIONAL CHILDREN*. October 1970. 12pp. (Paper) ED 042 938 RIE February 1971 MF-\$0.65 HC-\$3.29
- The feasibility, effectiveness, and implications of the metric system in the education of exceptional children are investigated. The paper also provides strategies for introducing the metric system.
- 71-133 Frank, Alan R., and others. "Developing a Work Skills Inventory." *TEACHING EXCEPTIONAL CHILDREN*, v3 n2, pp.82-86, Winter 1971. 5pp. (Journal Article)
- Procedures for developing and using an inventory to evaluate the individual work-related skills of students are suggested by this author.
- 71-134 Franks, Frank L. "Measurement in Science for Blind Students." *TEACHING EXCEPTIONAL CHILDREN*, v3 n1, Fall 1970. 8pp. (Journal Article)
- The author describes science measurement instruments specially modified for use by blind students. The instruments were developed as a result of a study conducted at the American Printing House for the Blind.
- 71-135 Galloway, Charles and Galloway, Kay C. "Parent Classes in Precise Behavior Management." *TEACHING EXCEPTIONAL CHILDREN*, v3 n3, pp.120-128, Spring 1971. 8pp. (Journal Article)
- The Galloways share their experiences in teaching parents how to use the tools of precision teaching to change the behavior of their severely retarded children, i.e. to increase the frequency of desirable behaviors and to decrease the frequency of undesirable behaviors.
- 71-136 Glassman, Lynne. "Directory of Resources on Early Childhood Education." *EXCEPTIONAL CHILDREN*, v37 n9, May 1971. 10pp. (Journal Article)
- Listed in this article are some of the laboratories, centers, organizations, and major publications which focus on early childhood education.
- This article will be published in June 1971 as a separate special publication which will give more detailed descriptions of publications available from the laboratories, centers, and organizations.
- 71-137 Haltom, Carl M. "Informal Assessment and Remediation of Visual Memory Deficits." *TEACHING EXCEPTIONAL CHILDREN*, v3 n1, Fall 1970. 10pp. (Journal Article)
- An informal test for evaluating and remediating visual memory deficiencies is presented.
- 71-138 Haughton, Eric. "Great Gains From Small Starts." *TEACHING EXCEPTIONAL CHILDREN*, v3 n3, pp.141-146, Spring 1971. 6pp. (Journal Article)
- The application of precision teaching techniques in planning and carrying out multiple projects with one student in a special class is fully outlined.
- 71-139 Jacobson, Ruth. "A Method for Teaching Inflectional Forms." *TEACHING EXCEPTIONAL*

CHILDREN, v3 n2, pp.70-72, Winter 1971. 3pp. (Journal Article)

The author presents a technique for teaching the spelling of inflectional forms of words based upon the phonic approach to reading.

- 71-140 Johnson, Evelyn C. "Precision Teaching Helps Children Learn." TEACHING EXCEPTIONAL CHILDREN, v3 n3, pp.106-110, Spring 1971. 5pp. (Journal Article)

Evelyn Johnson, who teaches a class of learning disabled children, describes how she used precision teaching to help three of her students solve specific problems.

- 71-141 Jordan, June B., ed. "CEC ERIC's the Now Way to Know: Current and Significant: the Curriculum R&D Center in Mental Retardation." EDUCATION AND TRAINING OF THE MENTALLY RETARDED, v6 n2, April 1971. 3pp. (Journal Article)

The program of the Curriculum Research and Development Center in Mental Retardation at Yeshiva University in New York is described.

- 71-142 Jordan, June B., ed. "CEC ERIC's the Now Way to Know: Programs, Curriculum, School and Home Activities--A Selected Mental Retardation Bibliography." EDUCATION AND TRAINING OF THE MENTALLY RETARDED, v5 n3, October 1970. 13pp. (Annotated Bibliography)

A listing is given of publications related to programs, curriculum, and home and school activities for mentally retarded children.

- 71-143 Jordan, June B. and McDonald, Phyllis L., eds. DIMENSIONS ANNUAL SURVEY OF EXCEPTIONAL CHILD RESEARCH ACTIVITIES AND ISSUES--1970. February 1971. 65pp. (Serial) ED 047 436 RIE June 1971 MF-\$0.65 HC-\$3.29
This serial contains nine articles which discuss recent trends, problems, controversies, and target areas of concern in exceptional child research.

- 71-144 Jordan, June B., ed. EXCEPTIONAL CHILD EDUCATION ABSTRACTS. VOLUME 2 NUMBER 2. August 1970. 220pp. (Abstract Journal) HC-available from the Council for Exceptional Children, Jefferson Plaza, Suite 900, 1411 South Jefferson Davis Highway, Arlington, Virginia 22202 (\$50.00 for institutional subscriptions, published four times a year)

ECEA is a quarterly journal containing abstracts stored on the computer file of the CEC Information Center and is designed as a resource for administrators, researchers, teachers, teacher educators, psychologists, and others concerned with gifted and handicapped children.

- 71-145 Jordan, June B., ed. EXCEPTIONAL CHILD EDUCATION ABSTRACTS. VOLUME 2 NUMBER 3. November 1970. 216pp. (Abstract Journal) HC-available from the Council for Exceptional Children, Jefferson Plaza, Suite 900, 1411

South Jefferson Davis Highway, Arlington, Virginia 22202 (\$50.00 for institutional subscriptions, published four times a year)

ECEA is a quarterly journal containing abstracts stored on the computer file of the CEC Information Center and is designed as a resource for administrators, researchers, teachers, teacher educators, psychologists, and others concerned with gifted and handicapped children.

- 71-146 Jordan, June B., ed. EXCEPTIONAL CHILD EDUCATION ABSTRACTS. VOLUME 2 NUMBER 4. February 1971. 252pp. (Abstract Journal) HC-available from the Council for Exceptional Children, Jefferson Plaza, Suite 900, 1411 South Jefferson Davis Highway, Arlington, Virginia 22202 (\$50.00 for institutional subscriptions, published four times a year)

ECEA is a quarterly journal containing abstracts stored on the computer file of the CEC Information Center and is designed as a resource for administrators, researchers, teachers, teacher educators, psychologists, and others concerned with gifted and handicapped children.

- 71-147 Joseph, Florence and Mullins, June. "A Script to Supplant Cursive Writing or Printing." TEACHING EXCEPTIONAL CHILDREN, v3 n1, Fall 1970. 6pp. (Journal Article)

A modified script which combines the benefits of both printing and cursive writing is discussed and illustrated.

- 71-148 Koenig, Carl. "The Behavior Bank: A System for Sharing Precise Information." TEACHING EXCEPTIONAL CHILDREN, v3 n3, p.157, Spring 1971. 1p. (Journal Article)

The Behavior Bank is an international computer bank, which contains information on precise measurement projects conducted in the fields of education, psychology, psychiatry, social work, medicine, and nursing. The manner in which one contributes to and uses this information is described.

- 71-149 Mann, Horace. "Conducting Instruction Requires Planning." TEACHING EXCEPTIONAL CHILDREN, v3 n2, pp.87-91, Winter 1971. 5pp. (Journal Article)

The daily lesson plan becomes a useful tool for the teacher when developed as the author suggests.

- 71-150 Martin, Edwin W. "Bureau of Education for the Handicapped Commitment and Program in Early Childhood Education." EXCEPTIONAL CHILDREN, v37 n9, May 1971. 3pp. (Journal Article)

The steps the Bureau of Education for the Handicapped is taking in developing preschool programs for handicapped children through the Handicapped Children's Early Education Assistance Act and various educational service divisions are discussed.

- 71-151 McDonald, Phyllis L. and Soeffing, Marylane. "Prevention of Learning Problems:

Capsule Summaries of Research Studies in Early Childhood Education." *EXCEPTIONAL CHILDREN*, v37 n9, May 1971. 6pp. (Journal Article)

This article reports the progress of eight ongoing research projects, all designed to develop greater understanding of the effects of early environment on later academic development.

- 71-152 Millikin, Gloria and Siegel, Darby. "A Kit for Teaching Calculating and Computing Devices." *TEACHING EXCEPTIONAL CHILDREN*, v3 n1, Fall 1970. 6pp. (Journal Article)

This article provides a wealth of ideas, activities, and resources for teaching calculators and computers to gifted children.

- 71-153 Mrstik, Joanne. "How to Store Your Individualized Exercises." *TEACHING EXCEPTIONAL CHILDREN*, v3 n2, pp. 92-95, Winter 1971. 4pp. (Journal Article)

Individualized exercises, easily made and stored, are described.

- 71-154 O'Harra, Edwin A. "Using Pay to Change Mentally Retarded Students' Work Behavior." *TEACHING EXCEPTIONAL CHILDREN*, v2 n4, pp.163-169, Summer 1970. 7pp. (Journal Article)

The author describes a work-study program in which pay was used successfully to simulate a job situation and to significantly increase MR students' work quality and their ability to meet a production schedule.

- 71-155 Oldsen, Carl F. ed. *EXCEPTIONAL CHILD EDUCATION ABSTRACTS*. v3 n1. April 1971. 176pp. (Abstract Journal) HC-available from the Council for Exceptional Children, Jefferson Plaza, Suite 900, 1411 South Jefferson Davis Highway, Arlington, Virginia 22202 (\$50.00 for institutional subscriptions, published four times a year)

ECEA is a quarterly journal containing abstracts stored on the computer file of the CEC Information Center and is designed as a resource for administrators, researchers, teachers, teacher educators, psychologists, and others concerned with gifted and handicapped children.

- 71-156 Olshin, George M. "Model Centers for Preschool Handicapped Children--Year II." *EXCEPTIONAL CHILDREN*, v37 n9, May 1971. 5pp. (Journal Article)

The Model Centers Program of the Bureau of Education for the Handicapped is described. This program attempts to develop comprehensive quality services for handicapped children newborn to 8 years of age.

- 71-157 Rafael, Be-ta. "The Advantages of Home Visits as a Pre-Admission Procedure." *TEACHING EXCEPTIONAL CHILDREN*, v3 n1, Fall 1970. 7pp. (Journal Article)

The author relates the advantages of having teachers make home visits prior to enrollment in a preschool program.

- 71-158 Reichard, Cary L. "Instructional Materials Specifically for the Retarded." Summer 1970. *TEACHING EXCEPTIONAL CHILDREN*, v2 n4, pp. 187-188, Summer 1970. 2pp. (Journal Article)

This survey by the Rocky Mountain Special Education Instructional Materials Center lists producers of instructional materials specifically designed for use with educable mentally retarded children, the producers' addresses, and the curriculum in which they produce materials.

- 71-159 Rush, Mary Lou. "Problems in Teaching Concepts: A Programmer's View." *TEACHING EXCEPTIONAL CHILDREN*, v2 n4; pp.176-180, 186; Summer 1970. 7pp. (Journal Article)

In writing programs to teach children concepts, there is a danger of using words and visuals which have misconceptions built into them. A programmer gives some insights into possible misconceptions and ways to avoid them.

- 71-160 Sloggett, Barbara B. "Use of Group Activities and Team Rewards to Increase Individual Classroom Productivity." *TEACHING EXCEPTIONAL CHILDREN*, v3 n2, pp.54-66, Winter 1971. 13pp. (Journal Article)

This article describes an experimental classroom situation where token reinforcement was used to reward group rather than individual behavior in order to promote academic development.

- 71-161 Spicker, Howard H. "Intellectual Development Through Early Childhood Education." *EXCEPTIONAL CHILDREN*, v37 n9, May 1971. 12pp. (Journal Article)

Some of the advantages of early childhood education, especially for disadvantaged children are pointed out. Discussed are curriculum models, age at intervention, duration of intervention, and the use of the home as a supplement to preschool education.

- 71-162 Starlin, Clay. "Peers and Precision." *TEACHING EXCEPTIONAL CHILDREN*; v3 n3, pp. 129-132, 137-140; Spring 1971. 7pp. (Journal Article)

Clay Starlin describes an exciting peer tutoring project in which one first grader is taught to tutor four of her peers in naming geometric figures. They in turn tutor the rest of the class. One of the peer tutors is also taught how to chart his students' performance frequencies.

- 71-163 Watson, Roberta. "A Return to Pioneer Days." *TEACHING EXCEPTIONAL CHILDREN*, v2 n4, pp.170-175, Summer 1970. 6pp. (Journal Article)

Special equipment built for handicapped children by the Telephone Pioneers of America is described and illustrated in this article.

- 71-164 Wolinsky, Gloria F. "The Application of Some of J. Piaget's Observations to the Instruction of Children." *TEACHING EXCEPTIONAL CHILDREN*, v2 n4, pp.189-196, Summer 1970. 8pp. (Journal Article)

The author proposes that Piaget's approach to the analysis of children's behavior be used as a model for the ongoing evaluation required in diagnostic teaching. She presents a set of teacher designed exercises which illustrate how this can be accomplished.

- 71-165 Zimmerman, Lyndall D. and Calovini, Gloria. "Toys As Learning Materials for Preschool Children." *EXCEPTIONAL CHILDREN*, v37 n2, May 1971. 12pp. (Journal Article)

In selecting toys for preschool education to enrich experiences of young children, teachers must relate the toys to the goals of their program. Characteristics and learning activity needs of children ages 1 to 5 years are given.

EDUCATIONAL MEDIA AND TECHNOLOGY (EM)

- 71-166 THE 1971 AECT RESEARCH ABSTRACTS AND TRENDS IN INSTRUCTIONAL TECHNOLOGY--A SPECIAL ERIC AT STANFORD MICROFICHE. March 1971. 48pp. (Special Abstract Collection) HC-available from ERIC Clearinghouse on Educational Media and Technology, Institute for Communication Research, Stanford University, Stanford, California 94305.

The clearinghouse-produced microfiche contained abstracts of the twenty-one research papers presented at the March 1971 Association for Educational Communications and Technology convention and the clearinghouse paper, *Trends in Instructional Technology*.

- 71-167 Allen, William H. and Coombs, Don H., eds. *TRENDS IN INSTRUCTIONAL TECHNOLOGY: THE ERIC AT STANFORD 1970 PLANNING REPORT*. November 1970. 32pp. (State-of-the-Art Review) ED 043 242 RIE February 1971 MF-\$0.65 HC-\$3.29

Responses to a questionnaire from the clearinghouse by forty leaders in the field--and a subsequent evaluation by an advisory council--lead to discussion of accomplishments, trends, and effective use of instructional technology.

- 71-168 Collins, W. Andrew. *IDENTIFYING AND FOSTERING PRODUCTIVE RESEARCHERS. AN OCCASIONAL PAPER FROM ERIC AT STANFORD*. March 1971. 33pp. (Monograph) ED 047 538 RIE June 1971 MF-\$0.65 HC-\$3.29

Characteristics of successful research training programs, their students, mature researchers, and research environments are explored, suggestions for research that is targeted to this area of investigation are made, and correlates in predicting success of students are considered.

- 71-169 Collins, W. Andrew. *THE INTERVIEW: AN EDUCATIONAL RESEARCH TOOL. AN OCCASIONAL PAPER FROM ERIC AT STANFORD*. December 1970. 16pp. (Monograph) ED 044 931 RIE April 1971 MF-\$0.65 HC-\$3.29

The interview schedule, manner of questioning, selection of respondents, the field tasks of the interviewer, and possibilities for error are discussed in this basic handbook on interviewing.

- 71-170 Coombs, Don H., and others. *SIMULATION AND GAMING. A Series 3 Collection from ERIC at Stanford*. September 1970. 48pp. (Annotated Bibliography) HC-available from ERIC Clearinghouse on Educational Media and Technology, Institute for Communication Research, Stanford University, Stanford, California 94305

Issued as one of a series, this booklet identifies and abstracts key ERIC literature available on the subject of simulation and gaming through September 1970.

- 71-171 Forsythe, Richard O. *INSTRUCTIONAL RADIO: A POSITION PAPER. A Series 2 Paper from ERIC at Stanford*. December 1970. 16pp. (State-of-the-Art Review) ED 044 933 RIE April 1971 MF-\$0.65 HC-\$3.29

This revised version of a paper originally submitted to the President's Commission on Instructional Technology discusses present day problems, cites the key research literature, and traces the history of instructional radio as an effective alternative to traditional book-bound academic systems.

- 71-172 Meyer, Anthony J. *BLACK VOICES AND FORMAT REGULATIONS: A STUDY IN BLACK-ORIENTED RADIO*. May 1971. 31pp. (Report) ED 048 754 RIE July 1971 MF-\$0.65 HC-\$3.29

Based on visits to black-oriented radio stations, reviews of license applications for such stations, and interviews of community leaders, station personnel and broadcasting experts in eight cities, this study attempted to discern and elucidate the dynamics of black-oriented broadcasting.

- 71-173 Ritterbush, Philip C. and Grove, Richard. *MUSEUMS AND MEDIA: A BASIC REFERENCE SHELF. MUSEUMS AND MEDIA: A STATUS REPORT*. December 1970. 16pp. (Ritterbush-Annotated Bibliography; Grove-State-of-the-Art Review) ED 044 935 RIE April 1971 MF-\$0.65 HC-\$3.29

An appropriately combined state of the art paper (Grove) and annotated bibliography (Ritterbush) identifies books, papers, periodicals, and reports which reveal the important role that museums can play in elementary and secondary education.

TEACHING OF FOREIGN LANGUAGES (FL)

- 71-174 Arendt, Jermaine D. NEW SCHEDULING PATTERNS AND THE FOREIGN LANGUAGE TEACHER. ERIC Focus Reports on the Teaching of Foreign Languages, Number 18. November 1970. 18pp. (Paper) ED 043 269 RIE February 1971 MF-\$0.65 HC-\$3.29

A review of traditional scheduling patterns and problems which arise from inflexible, lockstep systems leads to an examination of the seven-period day.

- 71-175 Brooks, Nelson. SPEAKING OF LANGUAGE. April 1971. 172pp. (Collection of Speeches) ED 048 791 RIE July 1971 MF-\$0.65 HC-\$6.58

A collection of fourteen speeches dating from 1955 to 1969, covering a broad range of information relevant to the history of language instruction in American schools is presented. The speeches discuss many problems and aspects of theory which influenced the development of audiolingual instruction.

- 71-176 Hagiwara, Michio P. LEADERSHIP IN FOREIGN-LANGUAGE EDUCATION: TRENDS IN TRAINING AND SUPERVISION OF GRADUATE ASSISTANTS. July 1970. 51pp. (State-of-the-Art Review) ED 041 523 RIE December 1970 MF-\$0.65 HC-\$3.29

Based on an analysis of some 157 replies to a survey on the training and supervision of graduate teaching assistants, this study examines current trends in the type of supervision being offered by language departments.

- 71-177 Hutchinson, Joseph C. and Hutchinson, June O. CRITERIA FOR SELECTING TYPES OF FOREIGN LANGUAGE LABORATORY SYSTEMS. ERIC Focus Reports on the Teaching of Foreign Languages, Number 20. May 1971. 12pp. (Paper) ED 049 662 RIE August 1971 MF-\$0.65 HC-\$3.29

The types of language laboratory systems available and factors to be considered in their selection are described. The paper also discusses the relation between utilization of the equipment and specific learning objectives in foreign language education.

- 71-178 John, Vera P. and Horner, Vivian M. EARLY CHILDHOOD BILINGUAL EDUCATION. March 1971. 207pp. (Book) ED 047 593 RIE June 1971 MF-\$0.65 HC-available from MLA Materials Center, 62 Fifth Avenue, New York, N.Y. 10011 (\$4.00)

This book, written from the viewpoint of both the immigrant and the native born, provides practical information that is helpful to communities attempting to present their demands for better bilingual education more cogently, and helps educators meet such demands with appropriate programs. Three major groups--the Puerto Rican, the Mexican American, and the American Indian--are discussed.

- 71-179 McKim, Lester W. FLES: TYPES OF PROGRAMS. ERIC Focus Reports on the Teaching of Foreign Languages, Number 16. October 1970.

14pp. (Paper) ED 043 268 RIE February 1971 MF-\$0.65 HC-\$3.29

A discussion of five types of FLES programs is presented, indicating possible variations in program design due to variables in teachers, materials, time, students, and preparation of teachers.

- 71-180 McKim, Lester W., and others. THE SUPERVISOR'S ROLE IN FOREIGN-LANGUAGE TEACHER TRAINING. May 1971. 42pp. (Conference Report) ED 049 665 RIE August 1971 MF-\$0.65 HC-\$3.29

The three papers presented in this conference report focus on the current status and function of the foreign language supervisor. The paper advocates the development of achievement tests to validate teacher competency, the reexamination of the role of the supervisor, and suggests improvements in teacher education.

- 71-181 Mildenerger, Andrea S., and others, comps. ERIC DOCUMENTS ON THE TEACHING OF FOREIGN LANGUAGES: LISTS NUMBERS 1-4. June 1971. 68pp. (Bibliography) ED 049 669 RIE August 1971 MF-\$0.65 HC-\$3.29

This bibliography lists 1603 items pertaining to foreign language instruction that were accessioned by all Educational Resources Information Center (ERIC) Clearinghouses from November 1966 through October 1969. Each item cites location of relevant abstract, ED number, and cost.

- 71-182 Mildenerger, Andrea S. and Mazzeo, Margaritha, comps. "ERIC Documents on the Teaching of Foreign Languages: List Number 5." FOREIGN LANGUAGE ANNALS, v4 n1, pp.95-110, October 1970. 20pp. (Bibliography) ED 044 990 RIE April 1971 MF-\$0.65 HC-\$3.29

This fifth in a series of such catalogs lists 324 EDRS Documents on the teaching of foreign languages appearing in RIE from November 1969 through April 1970. Each item cites location of relevant abstract, ED number, and cost.

- 71-183 Monka, Carolyn, comp. "ERIC Documents on the Teaching of Foreign Languages: List Number 6." FOREIGN LANGUAGE ANNALS, v4n3, pp. 313-328, March 1971. 18pp. (Bibliography) ED 047 592 RIE June 1971 MF-\$0.65 HC-\$3.29

This sixth in a series of such catalogs lists 330 EDRS documents on the teaching of foreign languages appearing in RIE from May 1970 through October 1970. Each item cites location of relevant abstract, ED number and cost.

- 71-184 Norton, Mary E., comp. A SELECTIVE BIBLIOGRAPHY ON THE TEACHING OF LATIN AND GREEK, 1920-69. February 1971. 47pp. (Bibliography) ED 046 311 RIE May 1971 MF-\$0.65 HC-\$3.29

This bibliography lists under 12 major categories 1943 items published during the last half century which reflect current trends in classical studies. Works listed

are related to the teaching of Latin and Greek as well as to classical civilization and culture. An author index is included, and EDRS information is given where appropriate.

- 185 Pohlsander, Hans A. TEACHING ANCIENT HISTORY TODAY. ERIC Focus Reports on the Teaching of Foreign Languages, Number 22. May 1971. 12pp. (Paper) ED 049 657 RIE August 1971 MF-\$0.65 HC-\$3.29

This paper presents a rationale for the study of Ancient History, discusses its relationship with other fields of study, suggest audiovisual aids and other source materials for use in the classroom, and concludes with remarks on the classical languages vis à vis ancient history. An annotated bibliography is included.

- 186 Strasheim, Lorraine A. TEACHING THE LATIN STUDENT TO TRANSLATE. ERIC Focus Reports on the Teaching of Foreign Languages, Number 17. August 1970. 16pp. (Paper) ED 042 391 RIE January 1971 MF-\$0.65 HC-\$3.29

A discussion of relevant guidelines and techniques is presented based on the premise that the primary objective of teaching Latin is the development of the ability to read extant Latin authors.

- 187 Torres, Edgardo E., and others. FOREIGN LANGUAGE DROPOUTS: PROBLEMS AND SOLUTIONS. AN EXAMINATION OF THE REASONS WHY STUDENTS DO NOT CONTINUE FOREIGN LANGUAGE INSTRUCTION AND A LIST OF SUGGESTED SOLUTIONS TO

THE PROBLEM. September 1970. 75pp. (Monograph) ED 043 262 RIE February 1971 MF-\$0.65 HC-\$3.29

This comprehensive investigation into the reasons behind the crucial problem of the student dropout in foreign language programs focuses on seven interrelated areas. Problematic conditions are given with corresponding, suggested solutions.

- 71-188 Twaddell, Freeman. LINGUISTICS AND FOREIGN LANGUAGE TEACHING. ERIC Focus Reports on the Teaching of Foreign Languages, Number 21. December 1970. 8pp. (Paper) ED 044 981 RIE April 1971 MF-\$0.65 HC-\$3.29

A brief analysis and definition of general linguistics focuses on distinct areas of study within the science, including descriptive, historical, comparative, and computational linguistics. The contributions of linguistics to foreign language teaching are variously noted.

- 71-189 Wrenn, James J. THE OVERHEAD PROJECTOR. ERIC Focus Reports on the Teaching of Foreign Languages, Number 19. November 1970. 16pp. (Paper) ED 043 267 RIE February 1971 MF-\$0.65 HC-\$3.29

This paper focuses on a description of the overhead projector and suggests ways in which its application to the foreign language classroom can be most effective. A discussion of guidelines and relevant techniques, with a selected bibliography for further reading is provided.

HIGHER EDUCATION (HE)

- 1-190 Casasco, Juan A. CORPORATE PLANNING MODELS FOR UNIVERSITY MANAGEMENT. October 1970. 18pp. (Paper) ED 042 933 RIE February 1971 MF-\$0.65 HC-\$3.29

This paper reviews corporated planning models currently in use and considers their applicability to universities. Several possible university models are presented. The models developed are primarily for small or medium-sized institutions with limited financial resources.

- 1-191 Harvey, James. "College and University Planning." CURRENTS '71, n2, May 1971. 6pp. (Journal Article) ED 049 396 RIE August 1971 MF-\$0.65 HC-\$3.29

Recent techniques in planning development for colleges and universities are reviewed. Special attention is focused on goals and such programming strategies as Planning-Programming-Budgeting Systems and computer-assisted planning.

- 1-192 Harvey, James. "College Trustees." CURRENTS '71, n3, June 1971. 5pp. (Journal Article) ED 049 397 RIE August 1971 MF-\$0.65 HC-\$3.29

This review of the college trustee includes a discussion of (1) authority and duties of governing boards, (2) presidential selection, (3) the trustee and his views, (4) arguments over the trustees' role, (5) diversifying boards of trustees

and the results, (6) suggestions for improving board performance, and (7) concluding remarks.

- 71-193 Harvey, James. "Preventing College Dropouts: A review." CURRENTS '70, n3, November 1970. 4pp. (Journal Article) ED 043 799 RIE March 1971 MF-\$0.65 HC-\$3.29

Dropout characteristics are given and approaches are outlined that prove most effective at various types of institutions in reducing dropout rates. Covered are programs aimed at early identification as well as those programs that attempt to keep students in school through "last ditch" measures.

- 71-194 Harvey, James. REFORMING UNDERGRADUATE CURRICULUM: PROBLEMS AND PROPOSALS. March 1971. 21pp. (Literature Review) ED 048 518 RIE July 1971 MF-\$0.65 HC-\$3.29

Reviews the development of current curricular theory and examines current issues in the reform debate. Model curricular proposals are presented as well as current innovative programs at 24 institutions. Includes an annotated bibliography.

- 71-195 McKeachie, Wilbert J. RESEARCH ON COLLEGE TEACHING: A REVIEW. November 1970. 20pp. (Paper) ED 043 789 RIE March 1971 MF-\$0.65 HC-\$3.29

This paper covers research in college

teaching from 1924 to 1970, and contains an extensive bibliography. The author sees a need to establish research continuity to enable educators to discern trends in student learning and relate changes in student responses to different teaching methods.

- 71-196 Patterson, Louis D. CONSORTIA IN AMERICAN HIGHER EDUCATION. November 1970. 23pp. (Paper) ED 043 800 RIE March 1971 MF-\$0.65 HC-\$3.29

Promotion and growth of consortia are considered, along with some of the practical problems of interinstitutional cooperation. There is a bibliography containing 52 references.

- 71-197 Peterson, Richard E. THE CRISIS OF PURPOSE: DEFINITION AND USES OF INSTITUTIONAL GOALS. October 1970. 15pp. (Paper) ED 042 934 RIE February 1971 MF-\$0.65 HC-\$3.29

The conflicting kinds of academic philosophies are considered as well as the rhetoric concerning the purpose of higher education. Uses of institutional goals are discussed. The issues of institutional autonomy and power are surveyed, followed by focus on three goal determining strategies: fiat, committee, and survey. The Delphi technique is emphasized.

- 71-198 Robinson, Lora H. "Improving College Teaching through Faculty Selection and Evaluation: A Review." CURRENTS '70, n2, July 1970. 4pp. (Journal Article) ED 040 309 RIE November 1970 MF-\$0.65 HC-\$3.29

This issue of *Currents* reviews the selection and evaluation/retention of college faculty as two means of improving college teaching. Summaries of successful and proposed criteria for measuring faculty performance and barriers to their use are included. Twenty-two sources document the review.

- 71-199 Robinson, Lora H. THE STATUS OF ACADEMIC WOMEN. April 1971. 30pp. (Literature Review) ED 048 523 RIE July 1971 MF-\$0.65 HC-\$3.29

A comprehensive description of academic women is given, along with specific criteria used by investigators to assess the status of these women. Fifty-four annotated campus reports on employment conditions at 65 institutions provide an extensive survey of current conditions. Twenty-five projects of associations that collect and disseminate information on employment conditions for women conclude the review.

- 71-200 Sharon, Amiel T. COLLEGE CREDIT FOR OFF-CAMPUS STUDY. March 1971. 18pp. (Report) ED 048 520 RIE July 1971 MF-\$0.65 HC-\$3.29

This paper summarizes some of the recent literature on unconventional college-level education gained outside the classroom. The major types of off-campus learning are reviewed and methods by which formal recognition is given for this education are presented.

- 71-201 Shulman, Carol H. FINANCING HIGHER EDUCATION. March 1971. 25pp. (Literature Review) ED 048 519 RIE July 1971 MF-\$0.65 HC-\$3.29

Methods to offset the financial crisis besetting higher education are given, including: formula grants, student loans, institutional grants, state aid, bank plans, scholarship and tax credits, and proposals for a national center for higher education. Plans for funding at the federal, state, and institutional level are given in an 80-item bibliography.

- 71-202 Shulman, Carol H. PREPARING COLLEGE TEACHERS. Compendium Series of Current Research, Programs and Proposals, Number 2. August 1970. 25pp. (State-of-the-Art Review) ED 041 179 RIE December 1970 MF-\$0.65 HC-\$3.29

This compendium delineates 53 program efforts to improve preparation for college teaching. Some methods used to upgrade preparation are training programs, fellowships and grants, and introduction of new degrees, such as the Doctor of Arts. An index of participating groups is included.

- 71-203 Shulman, Carol H. RECRUITING DISADVANTAGED STUDENTS. Compendium Series of Current Research, Programs and Proposals, Number 3. December 1970. 31pp. (State-of-the-Art Review) ED 043 788 RIE March 1971 MF-\$0.65 HC-\$3.29

This review is based on a questionnaire sent to those responsible for recruiting students at 54 colleges and universities. To make higher education accessible to those excluded either by restrictive admissions policies or by financial hardship was the primary desire of the respondents. Personal interviews are frequently cited as the best means to determine academic success.

- 71-204 Speck, David G. "Ombudsman on Campus: A Review." CURRENTS '71, n1, January 1971. 6pp. (Journal Article) ED 045 861 RIE May 1971 MF-\$0.65 HC-\$3.29

The position of ombudsman is discussed in terms of role, responsibilities, and limitations. Typical problems are presented that confront the ombudsman as well as the ways in which these problems are handled, methods for filling the position, benefits, role, and others.

- 71-205 Trent, William T. COLLEGE COMPENSATORY PROGRAMS FOR DISADVANTAGED STUDENTS. September 1970. 18pp. (Paper) ED 042 932 RIE February 1971 MF-\$0.65 HC-\$3.29

Presented in this paper are the general attributes and accomplishments of college compensatory programs. There is a detailed analysis of characteristics of successful programs at 18 colleges and universities.

- 71-206 Vallance, Theodore R. STRUCTURAL INNOVATION IN HIGHER EDUCATION TO MEET SOCIAL NEEDS.

December 1970. 34pp. (Paper) ED 044 539 RIE April 1971 MF-\$0.65 HC-\$3.29

Innovative programs at 64 higher educational institutions are described. This paper focuses on nine programs that deal with endemic social problems, such as poverty, crime, ill health, social conflict, and the maladministration of justice. The interdepartmental center is the most common form such programs take.

71-207 Warren, Jonathan. COLLEGE GRADING PRACTICES: AN OVERVIEW. March 1971. 29pp. (Paper) ED 047 164 RIE June 1971 MF-\$0.65 HC-\$3.29

This report examines grading practices, the uses of grades, and the influence of grades on the student, faculty, administration and society. The author also indicates how grading practices can be and are being altered to provide an educational tool that accurately reflects the many dimensions of student performance.

JUNIOR COLLEGES (JC)

71-208 Adkins, Winthrop R., and others. "One Institution: Six Alternatives." JUNIOR COLLEGE RESEARCH REVIEW, v5 n9, May 1971. 16pp. (Journal Article) ED 048 857 RIE July 1971 MF-\$0.65 HC-\$3.29

The collected views of several writers on alternatives to various current practices in the junior college are presented. Each of the six papers points to similar needs--the same needs that have become contemporary gospel but still hinge on the theoretical, the ultimate, and the yet-to-be implemented.

71-209 Banister, Richard. CASE STUDIES IN MULTIMEDIA INSTRUCTION. Topical Paper, Number 13. October 1970. 61pp. (Paper) ED 044 098 RIE March 1971 MF-\$0.65 HC-\$3.29

A review of the current status of multimedia instruction, costs vs. effectiveness, professional attitudes, and other requirements for its development is presented in this topical paper.

71-210 Boggs, John R. "Studies of Student and Staff Attitudes." JUNIOR COLLEGE RESEARCH REVIEW, v5 n8, April 1971. 4pp. (Journal Article) ED 047 682 RIE June 1971 MF-\$0.65 HC-\$3.29

The focus of this article is on documents that report affective measures as the primary aim of their study. Of the nine documents reviewed, one describes the development of an instrument for measuring attitudes, five are concerned with student attitudes, and three deal with staff attitudes.

71-211 Boyer, Marcia A. "Cooperative Work-Experience Education Programs in Junior Colleges." JUNIOR COLLEGE RESEARCH REVIEW, v5 n2, October 1970. 4pp. (Journal Article) ED 042 455 RIE January 1971 MF-\$0.65 HC-\$3.29

The values of work-experience programs are viewed from the standpoint of the student, college, employer, and community, and for their usefulness in professional as well as business and vocational careers.

71-212 Boyer, Marcia A. "Paraprofessional Training Programs in Junior Colleges." JUNIOR COLLEGE RESEARCH REVIEW, v5 n6, February 1971. 4pp. (Journal Article) ED 045 088 RIE April 1971 MF-\$0.65 HC-\$3.29

Presented in this article is a report on current programs for the training of

aides in teaching, social service, library science, and health and medical services.

71-213 Brawer, Florence B. "Student Studies: Comparative and Remedial Populations." JUNIOR COLLEGE RESEARCH REVIEW, v5 n7, March 1971. 4pp. (Journal Article) ED 047 665 RIE June 1971 MF-\$0.65 HC-\$3.29

Suggestions for study and comparison of various student populations by choice of career, attitude, background, values, advantages, and the like are presented. The most popular subject for comparative study is the transfer student vs. the non-transfer student.

71-214 Brawer, Florence B. VALUES AND THE GENERATION GAP: JUNIOR COLLEGE FRESHMEN AND FACULTY. Monograph Number 11. June 1971. 64pp. (Monograph) ED 050 724 RIE September 1971 MF-\$0.65 HC-\$3.29

This examination of the values and beliefs of students and faculty in the junior college attempts to show their relationships to the present generation gap. A definition of the concepts and a clarification of salient distinctions should enhance general understanding of their significance.

71-215 Cohen, Arthur M. and Brawer, Florence B. THE DYNAMIC INTERACTION OF STUDENT AND TEACHER. Topical Paper Number 17. February 1971. 26pp. (Paper) ED 046 395 RIE May 1971 MF-\$0.65 HC-\$3.29

An examination of the subtle interplay, unrelated to direct instruction, between student and teacher that affects the student's aspirations, personality development, and academic achievement is presented.

71-216 Cohen, Arthur M. and Quimby, Edgar A. "Trends in the Study of Junior Colleges: 1970--Rationale and Recommendations for Fifteen Essential Research Projects." JUNIOR COLLEGE RESEARCH REVIEW, v5 n1, pp. 1-10, September 1970. 10pp. (Journal Article) ED 040 711 RIE November 1970 MF-\$0.65 HC-\$3.29

The list of needed junior college research projects covers definition of research distinctions, an annual review, ideas in the movement, user services, instructor assessment, curriculum content validity, model schooling, program assessment, effects on students, characteristics of occupational students, verbal skills, impact on the community, organizational climates, attitudes, and community opinion.

- 71-217 Cross, K. Patricia. "Occupationally Oriented Students." JUNIOR COLLEGE REVIEW, v5 n3, November 1970. 4pp. (Journal Article) ED 043 328 RIE February 1971 MF-\$0.65 HC-\$3.29

Recent studies are reviewed about the various characteristics of junior college students enrolled in vocational and technical programs including their family background, motivations, values and objectives.

- 71-218 Darnes, G. Robert, and others. EXEMPLARY PRACTICES IN JUNIOR COLLEGE READING INSTRUCTION. Topical Paper Number 23. May 1971. 13pp. (Paper) ED 050 710 RIE September 1971 MF-\$0.65 HC-\$3.29

Highlighted in this paper is a description of model reading programs at four different junior colleges.

- 71-219 Dintelman, C.J. SKILL DEVELOPMENT IN JUNIOR COLLEGE READING PROGRAMS. Topical Paper Number 20. April 1971. 19pp. (Paper) ED 048 859 RIE July 1971 MF-\$0.65 HC-\$3.29

The three main categories of reading skills discussed in this paper are: speed reading skills, comprehension skills (including vocabulary), and related factors (a miscellaneous category).

- 71-220 Fader, Daniel. "Shaping an English Curriculum to Fit the Junior College Student." JUNIOR COLLEGE RESEARCH REVIEW, v5 n10, June 1971. 4pp. (Journal Article) ED 049 734 RIE August 1971 MF-\$0.65 HC-\$3.29

Suggested improvements in standard practices in the teaching of English in the junior college are presented with particular reference to students in need of remediation.

- 71-221 Kazmierski, Paul R. TRAINING FACULTY FOR JUNIOR COLLEGE READING PROGRAMS. Topical Paper Number 24. May 1971. 14pp. (Paper) ED 050 711 RIE September 1971 MF-\$0.65 HC-\$3.29

An examination of the background and experience of junior college reading instructors, their pre-service and in-service training programs, their present duties and responsibilities is presented.

- 71-222 Kelly, M. Frances and Connolly, John. ORIENTATION FOR FACULTY IN JUNIOR COLLEGES. Monograph Number 10. June 1970. 85pp. (Monograph) ED 043 323 RIE February 1971 MF-\$0.65 HC-\$3.29

A community college's orientation program can play a significant part in helping faculty members adjust to their new environment. This study develops a model for such an orientation, and includes suggestions for pre-orientation planning and activities, actual program goals and considerations, and post-program evaluation.

- 71-223 Kerstiens, Gene. DIRECTIONS FOR RESEARCH AND INNOVATION IN JUNIOR COLLEGE READING

PROGRAMS. Topical Paper Number 18. February 1971. 24pp. (Paper) ED 046 396 RIE May 1971 MF-\$0.65 HC-\$3.29

Discussed in this paper is the status of research in junior college reading/study skills programs, an identification of gaps in the research, and a proposal of two measures that would favorably affect research in the field.

- 71-224 Kintzer, Frederick C. NATIONWIDE PILOT STUDY ON ARTICULATION. Topical Paper Number 15. December 1970. 135pp. (Paper) ED 045 065 RIE April 1971 MF-\$0.65 HC-\$6.58

Provided in this paper are summaries of current articulation efforts in all of the fifty states including a detailed analysis of articulation between and among junior and senior institutions, showing successful practices, problems, and future plans.

- 71-225 Lombardi, John. BLACK STUDIES AS A CURRICULUM CATALYST. Topical Paper Number 22. May 1971. 19pp. (Paper) ED 050 709 RIE September 1971 MF-\$0.65 HC-\$3.29

Presented in this paper is a report on the impact of black students on campus throughout the country--curriculums, faculty, administration, and the students themselves.

- 71-226 Lombardi, John. THE POSITION PAPERS OF BLACK STUDENT ACTIVITIES. Topical Paper Number 17. September 1970. 19pp. (Paper) ED 042 453 RIE January 1971 MF-\$0.65 HC-\$3.29

Ten black student activist position papers are compared and contrasted for their style, content, structure, and manner of presentation. The papers are from approximately twenty junior colleges throughout the country. The contextual environment in which these papers must be viewed, and their import on the campuses is discussed.

- 71-227 Lombardi, John. THE PRESIDENT'S REACTION TO BLACK STUDENT ACTIVISM. Topical Paper Number 16. January 1971. 33pp. (Paper) ED 046 390 RIE May 1971 MF-\$0.65 HC-\$3.29

The variety of responses made by individual junior college presidents to the demands (position papers) of black student activists is summarized in this paper.

- 71-228 Newman, Loretta M. COMMUNITY COLLEGE READING CENTER FACILITIES. Topical Paper Number 21. May 1971. 15pp. (Paper) ED 051 792 RIE October 1971 MF-\$0.65 HC-\$3.29

The establishment of reading and learning centers and their value in the teaching of various reading skills is discussed in this paper.

- 71-229 Park, Young. JUNIOR COLLEGE FACULTY: THEIR VALUES AND PERCEPTIONS. Monograph Number 12. June 1971. 68pp. (Monograph) ED 050 725 RIE September 1971 MF-\$0.65 HC-\$3.29

This investigation of institutional

characteristics as they relate to staff values and perceptions is considered only a pilot study. It is felt that teacher personality and perceived role, as well as faculty perception of the institution may have significant influence on the function, purpose, and product of the junior college.

- 71-230 Park, Young. "Teacher Preparation Programs and the Junior College." JUNIOR COLLEGE RESEARCH REVIEW, v5 n5, January 1971. 4pp. (Journal Article) ED 045 073 RIE April 1971 MF-\$0.65 HC-\$3.29

The need for active cooperation between the university-based researcher and the junior college administrator, to provide the research on teaching and learning necessary for the sound preparation of junior college teachers is emphasized.

- 71-231 Sheldon, M. Stephen. "Entrance and Placement Testing for the Junior College." JUNIOR COLLEGE RESEARCH REVIEW, v5 n4, December 1970. 4pp. (Journal Article) ED 044 110 RIE March 1971 MF-\$0.65 HC-\$3.29
The use of traditional psychometric de-

vices to predict an individual's academic performance, and to determine his admittance into a particular curriculum is discussed, and a more appropriate alternative is suggested.

- 71-232 Vaughan, George B. SOME PHILOSOPHICAL AND PRACTICAL CONCEPTS FOR BROADENING THE BASE OF HIGHER EDUCATION IN VIRGINIA. Topical Paper Number 19. May 1971. 107pp. (Paper) ED 049 739 RIE August 1971 MF-\$0.65 HC-\$6.58

A history is presented of the development, both social and political, of the junior college system in Virginia.

- 71-233 Wattenbarger, James L. and Martorana, S.W. THE LAWS RELATING TO HIGHER EDUCATION IN THE FIFTY STATES: JANUARY 1965-DECEMBER 1967. Topical Paper Number 14. October 1970. 36pp. (Paper) ED 044 097 RIE March 1971 MF-\$0.65 HC-\$3.29

A digest of each state's legislation important to the junior college is included in this topical paper. It continues a previous study by the USOE.

LIBRARY AND INFORMATION SCIENCES (LI)

- 71-234 A RESEARCH DESIGN FOR LIBRARY COOPERATIVE PLANNING AND ACTION IN THE WASHINGTON, D.C. METROPOLITAN AREA. August 1970. 77pp. (Report) ED 040 306 RIE November 1970 MF-\$0.65 HC-\$3.29

The objectives of this study are to assess needs for cooperative planning and action among the various types of libraries (public, Federal, university, school and special) in the metropolitan area, and to prepare a design for subsequent research and demonstration in the areas of need.

- 71-235 Benton, Mildred, ed. LIBRARY AND REFERENCE FACILITIES IN THE AREA OF THE DISTRICT OF COLUMBIA. EIGHTH EDITION. 1971. 217pp. (Directory) ED 050 764 RIE September 1971 MF-\$0.65 HC-available from the Joint Venture, 2001 S. Street, N.W., Washington, D.C. 20009 (\$5.95)

The new edition of *Library and Reference Facilities in the Area of the District of Columbia* contains information on 426 libraries. It describes information facilities that offer service to the public. A subject index, an index of librarians and a listing of disestablished libraries are included at the end of this directory.

- 71-236 Benton, Mildred and Ottersen, Signe, comps. ROSTER OF FEDERAL LIBRARIES. October 1970. 283pp. (Directory) ED 044 158 RIE March 1971 MF-\$0.65 HC-\$9.87

More than 1,900 individual libraries serving the many departments, committees, agencies, courts, and other formal organizational entities in the Federal Government are identified. They include six types: Presidential, national, general, academic, school and special or technical.

- 71-237 Benton, Mildred, and others. A STUDY OF RESOURCES AND MAJOR SUBJECT HOLDINGS AVAIL-

ABLE IN U.S. FEDERAL LIBRARIES MAINTAINING EXTENSIVE OR UNIQUE COLLECTIONS OF RESEARCH MATERIALS. FINAL REPORT. September 1970. 676pp. (Directory) ED 043 350 February 1971 MF-\$0.65 HC-\$23.03

One hundred and eighty-eight selected special libraries were surveyed in an initial attempt to study the resources and major subject holdings available in U.S. Federal libraries maintaining extensive or unique collections of research materials.

- 71-238 Helmuth, Nancy, A., ed. ERIC PRODUCTS 1969-1970; A BIBLIOGRAPHY OF INFORMATION ANALYSIS PUBLICATIONS OF THE ERIC CLEARINGHOUSES JULY 1969-JUNE 1970. August 1970. 47pp. (Annotated Bibliography) ED 041 598 RIE December 1970 MF-\$0.65 HC-\$3.29

The third annual bibliography of ERIC clearinghouse publications reflects information analysis activities of each Clearinghouse. The 366 annotated items for Fiscal Year 1970 include substantial bibliographies, review papers and state-of-the-art papers identified as ERIC publications.

- 71-239 Klempner, Irving M. AUDIOVISUAL MATERIALS IN SUPPORT OF INFORMATION SCIENCE CURRICULA: AN ANNOTATED LISTING WITH SUBJECT INDEX. June 1971. 27pp. (Annotated Listing) ED 051 819 RIE October 1971 MF-\$0.65 HC-\$3.29

The 195 audiovisual aids cited aim toward introducing students of library science to the rapidly evolving theory and technology of information science. Each item lists the title, length of film in minutes, a brief description of content, and the current availability. A subject index is provided.

- 71-240 Olsen, Harold A. THE ECONOMICS OF INFORMATION: BIBLIOGRAPHY AND COMMENTARY ON THE

LITERATURE. January 1971. 32pp. (Literature Review) ED 044 545 RIE April 1971 MF-\$0.65 HC-\$3.29

The report consists of (1) a short section on the economists' framework for analysis, (2) a table that divides the pertinent literature into 14 categories, briefly defines each category, and explains why it is important to information activities, (3) a brief commentary on the state of this literature and (4) a selected bibliography of over 300 items.

- 71-241 Pan, Elizabeth. LIBRARY SERIALS CONTROL SYSTEMS: A LITERATURE REVIEW AND BIBLIOGRAPHY. December 1970. 49pp. (Literature Review) ED 044 538 RIE April 1971 MF-\$0.65 HC-\$3.29

The literature on automated serials control systems and related subjects is reviewed and conclusions are drawn on the

issues raised. In addition to descriptions of the major serials systems, topics of concern include user studies, technological developments, emerging national standards, and costs.

- 71-242 Veazie, Walter H. and Connolly, Thomas F. THE MARKETING OF INFORMATION ANALYSIS CENTER PRODUCTS AND SERVICES. June 1971. 33pp. (Monograph) ED 050 772 RIE September 1971 MF-\$0.65 HC-available from American Society for Information Science, 1140 Connecticut Ave., N.W., Washington, D.C. 20036 (\$2.00)

Two case studies, reflecting the experience of two centers which have implemented service charges, and the comments of managers on proposed methods of information center cost recovery provide a basis on which decisions for service charges can be made. A bibliography of 33 references provides an overview of relevant literature.

EARLY CHILDHOOD EDUCATION (PS)

- 71-243 HEAD START CURRICULUM MODELS: A REFERENCE LIST. November 1970. 26pp. (Bibliography) ED 046 517 RIE May 1971 MF-\$0.65 HC-\$3.29

Books, articles, curriculum aids, progress reports and other papers related to the 11 Head Start curriculum models now being tested experimentally in many communities are listed. Addresses of educators responsible for the models are given.

- 71-244 Allgaier, Janet F., comp. A BRIEF GUIDE TO NEWSLETTERS IN EARLY CHILDHOOD EDUCATION. March 1971. 13pp. (Annotated Bibliography) ED 048 932 RIE July 1971 MF-\$0.65 HC-\$3.29

The 31 informative newsletters and bulletins listed are concerned directly with, or related to, the field of early childhood education. Each listing contains the publication's title, scope, frequency of publication, and subscription information.

- 71-245 Bluth, Linda, and others. EMOTIONAL DISTURBANCE: PRESCHOOL INTERVENTION AND PREVENTION. May 1971. 17pp. (Bibliography) PS 004 655 RIE issue unknown MF-\$0.65 HC-\$3.29

Articles, books, and films published between 1960 and 1970 which deal with early identification of and intervention for preschool emotionally disturbed children are listed. Materials are keyed to show appropriateness for teachers, social workers, psychologists, administrators, and parents.

- 71-246 Collier, Alan R. REPORT FOR ERIC/TM: AN ANNOTATED BIBLIOGRAPHY OF SELF-CONCEPT MEASURES FOR THE EARLY CHILDHOOD YEARS. November 1970. 44pp. (Annotated Bibliography) ED 051 305 RIE September 1971 MF-\$0.65 HC-\$3.29

A variety of self-concept measures currently employed in the assessment of children in the early childhood grades are described. (This product is a cooperative effort of ERIC/PS and ERIC/TM.)

- 71-247 Elliott, David L. "Needed: A New Early Childhood Educator." EDUCATIONAL LEADERSHIP, v28 n8, pp.835-839, May 1971. 5pp. (Journal Article)

This article includes a partial description of a broader educational context needed to improve children's lives, proposes a new role of children's advocates for the professional educator, and suggests steps to take toward development of this role.

- 71-248 Griffin, Louise. BOOKS IN PRESCHOOL: A GUIDE TO SELECTING, PURCHASING, AND USING CHILDREN'S BOOKS. November 1970. 68pp. (Booklet) ED 038 178 RIE August 1970 MF-\$0.65 HC-\$3.29

Sections of this guide include information on selecting, making, and using books with young children; books in other languages; using the public library; and book buying. Annotated bibliographic citations are given for specific children's books.

- 71-249 Griffin, Louise, comp. MULTI-ETHNIC BOOKS FOR YOUNG CHILDREN: ANNOTATED BIBLIOGRAPHY FOR PARENTS AND TEACHERS. 1970. 77pp. (Annotated Bibliography) ED 046 519 RIE May 1971 MF-\$0.65 HC-\$3.29

Listed in this bibliography are books now available for children whose race, national background, ethnic group, or life style is not white, middle class. Included are books in languages other than English, books for parents and teachers, and a directory of publishers.

- 71-250 Howard, Norma K., comp. DAY CARE: AN ANNOTATED BIBLIOGRAPHY. June 1971. 14pp. (Annotated Bibliography) PS 004 806 RIE issue unknown MF-\$0.65 HC-\$3.29

Recent research reports, papers, booklets, and journal articles dealing with all aspects of day care are listed. This bibliography covers financing, licensing and standards, staff, building, equipment, program, and community involvement.

- 71-251 Johnson, Adele, comp. PRESCHOOL PROGRAMS: AN ANNOTATED BIBLIOGRAPHY. June 1971. 40pp. (Annotated Bibliography) PS 004 805 RIE issue unknown MF-\$0.65 HC-\$3.29

Annotated citations of recent research

reports, papers, and journal articles which discuss various aspects of preschool programs are provided.

- 71-252 Kamii, Constance and Elliott, David L. "Evaluation of Evaluations." EDUCATIONAL LEADERSHIP, v28 n8, pp.827-834, May 1971. 8pp. (Journal Article)

As a summative and comparative evaluation, this article discusses some of the practical and theoretical reasons why educators are not yet able to determine what kind of program is best for what kinds of children.

- 71-253 Katz, Lillian G. CONDITION WITH CAUTION: THINK THRICE BEFORE CONDITIONING. February 1971. 7pp. (Paper) ED 046 539 RIE May 1971 MF-\$0.65 HC-\$3.29

Although several children may exhibit the same behavior, the underlying causes of that behavior may be very different for each child. Therefore, behavior modification techniques should be approached with caution. A paradigm shows possible phenotype/genotype/treatment relationships.

- 71-254 Katz, Lillian G. "Early Childhood Education as a Discipline." YOUNG CHILDREN, v26 n2, pp.82-89, September 1970. 15pp. (Journal Article) ED 043 396 RIE February 1971 MF-\$0.65 HC-\$3.29

Early childhood education is defined as group settings which are deliberately intended to effect developmental changes in children in the age range from birth to age of first grade entrance. Parameters of

early childhood education are proposed and explored.

- 71-255 Katz, Lillian G. "Four Questions on Early Childhood Education." CHILD STUDY JOURNAL, v1 n2, pp.43-51, Winter/970/1971. 9pp. (Journal Article)

The distinction between academic and intellectual goals, and the qualities of program, teachers, and administrators needed in the field of early childhood education are described.

- 71-256 Katz, Lillian G. TEACHER-CHILD RELATIONSHIPS IN DAY CARE CENTERS. WORKING PAPER. September 1970. 40pp. (Paper) ED 046 494 RIE May 1971 MF-\$0.65 HC-\$3.29

Teacher-child relationships are complex phenomena which can be described and observed from a variety of angles, on many different levels. Four types of teacher functions or duties are defined: material, therapeutic, facilitator, and instructional. Needed research is discussed.

- 71-257 Lay, Margaret and Dopyera, John. ANALYSIS OF EARLY CHILDHOOD PROGRAMS: A SEARCH FOR COMPARATIVE DIMENSIONS. May 1971. 14pp. (Paper) ED 051 877 RIE October 1971 MF-\$0.65 HC-\$3.29

The following dimensions to be used in analyzing and comparing early childhood programs are proposed and discussed: density, variety, complexity, sequencing, regularity, emergence, uniformity, contrast, pacing, scope and controllability.

RURAL EDUCATION AND SMALL SCHOOLS (RC)

- 71-258 MANUAL FOR PROVIDING LIBRARY SERVICES TO INDIANS AND MEXICAN AMERICANS. March 1971. 60pp. (Manual) ED 047 872 RIE June 1971 MF-\$0.65 HC-\$3.29

The librarians' manual contains criteria for selecting books for Mexican Americans and American Indians; reader's interest and library-interest forms; criteria for judging library services to rural communities; steps for implementing relevant library services; and lists of bibliographies, supplementary reading materials, and resource materials on Indians and Mexican Americans.

- 71-259 Altus, David M., comp. BILINGUAL EDUCATION, A SELECTED BIBLIOGRAPHY. December 1970. 228pp. (Annotated Bibliography) ED 047 853 RIE June 1971 MF-\$0.65 HC-\$9.87

Compiled to provide access to the latest findings on bilingualism and bilingual education, the bibliography contains 176 relevant *Research in Education* abstracts and 28 relevant journal citations. Subject indices are included.

- 71-260 Altus, David M., comp. MEXICAN AMERICAN EDUCATION, A SELECTED BIBLIOGRAPHY. SUPPLEMENT NUMBER 1. April 1971. 206pp. (Annotated Bibliography) ED 048 961 RIE July 1971 MF-\$0.65 HC-\$9.87

Updating the basic bibliography on Mexican American education (ED 031 352), this

supplement contains approximately 150 abstracts appearing in *Research in Education* from June 1969 through December 1970. Also cited are 23 relevant journal articles. Subject indices are included.

- 71-261 Burdin, Joel L., and others. eds. SCHOOL PERSONNEL PREPARATION FOR AMERICAN INDIANS: PRESENT STATE AND NEEDED STEPS. May 1971. 76pp. (Conference Report) ED 051 074 RIE September 1971 MF-\$0.65 HC-\$3.29

After a summary of a workshop for training educational personnel to work with American Indians, papers are presented on (1) meaningful education for Indian students, (2) a conceptual model of a teacher training program for teachers of Indians, and (3) six perspectives on Indian education. Two excerpts from major research studies are appended. (Joint publication with ERIC Clearinghouse on Teacher Education. 71-329)

- 71-262 Carter, Thomas P. SCHOOL DISCRIMINATION: THE MEXICAN AMERICAN CASE. April 1971. 20pp. (Paper) ED 048 969 RIE July 1971 MF-\$0.65 HC-\$3.29

The school, often inadvertently and unconsciously, subordinates Mexican Americans and other minority groups by imposing mechanisms such as ability grouping or curricular or extracurricular offerings with

middle-class-based grade, academic, or behavioral requirements. This opinion paper provides suggestions for dealing with the mechanisms which perpetuate discrimination.

- 71-263 Coombs, W. Madison. THE EDUCATIONAL DISADVANTAGE OF THE INDIAN AMERICAN STUDENT. July 1970. 159pp. (Literature Review) ED 040 815 RIE November 1970 MF-\$0.65 HC-\$6.58

This significant research synthesis serves to point out research findings relative to the educationally disadvantaged Indian American student. Disadvantage is investigated in terms of its nature and magnitude, suggested causes, and proposed remedies. Unresolved issues and problems, such as the controversy at Rough Rock Demonstration School, are also examined.

- 71-264 Donaldson, George W. A POSITION PAPER: RESEARCH INFORMATION IN OUTDOOR EDUCATION. September 1970. 13pp. (Monograph) ED 042 554 RIE January 1971 MF-\$0.65 HC-\$3.29

Designed as a guide for outdoor-education researchers, this paper provides discussion of research needs and priorities in terms of history and philosophy, curriculum and learning, administration, and teacher education. An action program is suggested for augmenting research in the field and for channeling this research into areas of priority concern.

- 71-265 Edington, Everett D. "Disadvantaged Rural Youth." REVIEW OF EDUCATIONAL RESEARCH, v40 n1, pp.69-85, February 1971. 17pp. (Journal Article)

In this research review, characteristics of rural disadvantaged youth--low socioeconomic status, low level of aspiration, attitudes unsupportive of educational progress, and low educational achievement--are discussed in terms of implications for improvement.

- 71-266 Edington, Everett D. and Willey, Darrell S. "Occupational Training for America's Forgotten Minority." JOURNAL OF AMERICAN INDIAN EDUCATION, v10 n2, pp.15-20, January 1971. 6pp. (Journal Article)

As a result of a national conference conducted to encourage development of vocational education programs for American Indians, follow-up of 11 randomly selected participants was done in terms of implementation of recommendations. Noticeable changes in providing vocational training programs for Indians had taken place 6 months after the conference.

- 71-267 Heathman, James E. and Nafziger, Alyce J., comps. MIGRANT EDUCATION, A SELECTED BIBLIOGRAPHY. SUPPLEMENT NUMBER 1. June 1970. 44pp. (Annotated Bibliography) ED 040 002 RIE October 1970 MF-\$0.65 HC-\$3.29

Updating the basic CRESS bibliography on migrant education (ED 028 011), this supplement contains approximately 75 Research in Education abstracts. A subject index using ERIC descriptors is provided.

- 71-268 Heathman, James E. STUDENT ACTIVISM--AN OVERVIEW. December 1970. 11pp. (Literature Review) ED 045 250 RIE April 1971 MF-\$0.65 HC-\$3.29

Methods for bringing about greater student involvement in school affairs, along with handling of different forms of student protest, are offered.

- 71-269 Heathman, James E. THE VOLUNTEER--AN EDUCATIONAL RESOURCE. February 1971. 9pp. (Literature Review) ED 048 981 RIE July 1971 MF-\$0.65 HC-\$3.29

This paper discusses the use of volunteer workers (non-working mothers, senior citizens, university students) as a low-cost educational improvement. In the paper, specific volunteer programs are described, and suggestions are presented for teachers working with volunteers and possible activities with which a volunteer might assist.

- 71-270 Leitka, Eugene. RELATIONSHIP OF POWER AND AUTHORITY IN RURAL AREAS. March 1971. 12pp. (Literature Review) ED 048 980 RIE July 1971 MF-\$0.65 HC-\$3.29

Methods of obtaining social power and identifying community power holders, the political nature of the school, the superintendent's role, political ties of school administrators with respect to educational decision-making, and implementation of change and public reaction to that change are explored in terms of the small rural community.

- 71-271 Link, Albert D. A PLANNER'S REFERENCE GUIDE RELATING TO SOCIOECONOMIC FACTORS WITHIN APPALACHIA AS APPLIED TO PUBLIC EDUCATION. December 1970. 46pp. (Reference Guide with Narrative) ED 045 279 RIE April 1971 MF-\$0.65 HC-\$3.29

Ninety citations related to planning for change are categorized under 10 headings: delinquency, health services, dropouts, job opportunities, age factors, labor force, population characteristics, resources, disadvantage, and related documents. Citations include relevant abstracts from *Research in Education* (through March 1970) and annotated entries from CRESS local files.

- 71-272 Link, Albert D. RURAL AND SMALL SCHOOL CONSOLIDATION--SOME PROBLEMS AND SUGGESTED PROCEDURES. February 1971. 42pp. (Literature Review) ED 048 979 RIE July 1971 MF-\$0.65 HC-\$3.29

Rural school districts need to look seriously at school consolidation as a strategy for solving educational problems arising from change, technology, and increasing student needs. Thus, redistricting is examined under the headings Why Consolidate?, Problems Associated with School Consolidation, and Suggested Procedures.

- 71-273 Link, Albert D. "The VIEW of Texas." VOCATIONAL GUIDANCE QUARTERLY, pp.134-139, December 1970. 6pp. (Journal Article)

Using microfilming, low-cost vocational guidance information, specifically designed to meet the needs of high school students who are not likely to earn a college degree, is made available to students through Vital Information for Education and Work (VIEW), which is now operant in Texas high schools.

- 71-274 McClurkin, W.D. RURAL EDUCATION IN THE UNITED STATES. September 1970. 54pp. (Report) ED 043 408 RIE February 1971 MF-\$0.65 HC-\$3.29

In this status report on rural education, criteria of adequacy and needs, persistent critical problems, promising practices, and rural education as related to poverty are explored. Ways to expand innovative programs in nonurban schools are also discussed.

- 71-275 Miller, Peggy L. SCHOOL GARDENS AND FARMS--ASPECTS OF OUTDOOR EDUCATION. December 1970. 28pp. (Monograph) ED 045 249 RIE April 1971 MF-\$0.65 HC-\$3.29

Guidelines are given for implementing school gardens, school farms, orchards, and berry patches since today's youth are often denied opportunities for meaningful physical work experiences. Such programs are appropriate for students at all grade levels, as well as preschool and handicapped children.

- 71-276 Nafziger, Alyce J., comp. AMERICAN INDIAN EDUCATION, A SELECTED BIBLIOGRAPHY. SUPPLEMENT NUMBER 1. October 1970. 132pp. (Annotated Bibliography) ED 044 213 RIE March 1971 MF-\$0.65 HC-\$6.58

Updating the basic CRESS bibliography (ED 030 780) on American Indian education, Part I contains 176 relevant *Research in Education* abstracts. Part II contains 81 relevant journal citations. Subject indices are included. (ERIC Document Reproduction Service pricing was changed after publication of the basic bibliography and supplement but may be recomputed.)

READING (RE)

- 71-281 Berridge, Wayne E. and Siedow, Mary D., comps. GUIDE TO MATERIALS FOR READING INSTRUCTION. 1971 Edition. May 1971. 200pp. (Bibliography) ED 049 024 RIE July 1971 MF-\$0.65 HC-\$6.58

This guide updates earlier editions and contains approximately 2,300 entries of materials from 114 publishers. Items are described by a classification system, including (1) designation as basal or non-basal; (2) type (reader, workbook, audio aid, etc.); (3) reading difficulty level; and (4) interest level. No evaluations are made.

- 71-282 Farr, Roger, comp. MEASUREMENT OF READING ACHIEVEMENT. AN ANNOTATED BIBLIOGRAPHY. April 1971. 96pp. (Annotated Bibliography) ED 049 906 RIE August 1971 MF-\$0.65 HC-available from International Reading Association, 6 Tyre Ave., Newark, Delaware 19711 (\$1.00 to member, \$1.50 to nonmembers)

- 71-277 Nafziger, Alyce J. ANALYSIS OF ATTITUDES RELATIVE TO EDUCATION IN THE APPALACHIAN REGION. January 1971. 18pp. (Literature Review) ED 048 982 RIE July 1971 MF-\$0.65 HC-\$3.29

Heritage and characteristics of Appalachian people are discussed in terms of their educational attitudes and vocational aspirations. It is concluded that educational attitudes of this population are related to level of income, occupational aspiration, and family influence.

- 71-278 Stout, Larry. AN OVERVIEW OF FEDERAL PROGRAMS AND THEIR IMPACTS ON APPALACHIA. February 1971. 20pp. (Literature Review) ED 048 978 RIE July 1971 MF-\$0.65 HC-\$3.29

Social change in Appalachia, regional education centers, educational cooperatives, vocational education, teacher education, and other Federal programs are reviewed.

- 71-279 Trujillo, Rupert. RURAL NEW MEXICANS: THEIR EDUCATIONAL AND OCCUPATIONAL ASPIRATIONS. January 1971. 34pp. (Paper) ED 046 572 RIE May 1971 MF-\$0.65 HC-\$3.29

In a study to determine if there is a positive relationship between amount of experience in an educational-occupational program and level of educational and occupational aspirations, 200 rural subjects (110 students and 90 adults) were assessed. It was found that a positive relationship does exist.

- 71-280 Wilson, Alfred P. EDUCATIONAL INNOVATIONS IN RURAL AMERICA. December 1970. 70pp. (Literature Review) ED 045 241 RIE April 1971 MF-\$0.65 HC-\$3.29

The role of rural education, innovative programs which have had major impacts on rural schools, specific innovations which might be implemented in the small school, and a conceptual model of individualized inservice training geared to promoting effective change in the rural setting are discussed.

The articles and reports cited deal with organismic, test composition, and environmental factors which affect validity and reliability, and problems of tests of vocabulary, word attack, comprehension, rate, study skills, and other subareas of reading.

- 71-283 Fay, Leo, comp. ORGANIZATION AND ADMINISTRATION OF SCHOOL READING PROGRAMS. January 1971. 63pp. (Annotated Bibliography) ED 046 677 RIE May 1971 MF-\$0.65 HC-\$3.29

Contained in this bibliography are citations and annotations of articles and papers on school organization, classroom organization, administrative and supervisory policies, and organization and administration of special school programs and services. Studies cover the years 1950-1969.

- 71-284 Fay, Leo and Blanton, William. "Rallying to the Reading Challenge." THE PTA MAGAZINE, v65n5, pp.9-12, January 1971. 4pp. (Journal Article)

The extent of reading deficiency in the United States, and the changes that will have to be made in school practices if the goals of the Right-to-Read program are to be attained are discussed. It is suggested that scores on aptitude tests be used as a prediction of how fast a child will learn, and not of his ultimate achievement.

- 71-285 Fay, Leo, comp. **READING RESEARCH: METHODOLOGY, SUMMARIES, AND APPLICATION. AN ANNOTATED BIBLIOGRAPHY.** May 1971. 76pp. (Annotated Bibliography) ED 049 023 RIE July 1971 MF-\$0.65 HC-available from International Reading Association, 6 Tyre Ave., Newark, Delaware 19711 (\$1.00 to members, \$1.50 to nonmembers)

Reading research studies from 1950 to 1969 are selected for inclusion in this bibliography. It is divided into three sections: methodology (for the researcher), summaries (for the student), and applications (for the practitioner).

- 71-286 Laffey, James L., comp. **METHODS OF READING INSTRUCTION. AN ANNOTATED BIBLIOGRAPHY.** March 1971. 88pp. (Annotated Bibliography) ED 047 930 RIE June 1971 MF-\$0.65 HC-available from International Reading Association, 6 Tyre Ave., Newark, Delaware 19711 (\$1.00 to members, \$1.50 to nonmembers)

Contained in this bibliography are citations and annotations of articles published from 1950-1970, in three sections: elementary school reading (constituting the major part of the bibliography), junior and senior high school reading, and college and adult reading.

- 71-287 Laffey, James L. "Some Bright Children Can't Read." **THE PTA MAGAZINE**; v65 n2; pp.9-11, 36; October 1970. 4pp. (Journal Article)

Causes of reading disability in normally-intelligent children are divided into three broad classes: physical, psychological, and educational. Examples of physical factors are hearing or vision difficulties. Psychological factors include timidity, and anxiety. The most important educational factor is the teacher, who may be poorly prepared for teaching reading. Suggestions for remediation are offered.

- 71-288 Miller, ChloëAnn, comp. **RESEARCH ON ELEMENTARY READING: INTERESTS AND TASTES.** ERIC/CRIER Reading Review Series, Bibliography 29. August 1970. 129pp. (Annotated Bibliography) ED 042 593 RIE January 1971 MF-\$0.65 HC-\$5.58

Studies are cited of reader preference which emphasize enumeration or classification of what was read, or discuss readers' demands for quality.

- 71-289 Siffin, Catherine F., and others. **AUTHOR'S GUIDE AND STYLE MANUAL TO PUBLICATIONS OF THE ERIC CLEARINGHOUSE ON READING. PRELIMINARY EDITION.** November 1970. 76pp. (Style Manual) ED 042 935 RIE February 1971 MF-\$0.65 HC-\$3.29

Part I gives guidelines for identifying topic and audience, treatment of research, and organization for monographs, short interpretive papers, and bibliographies. Part II, the Style Manual, describes manuscript preparation, writing style, preparation of tables, and referencing.

SCIENCE AND MATHEMATICS EDUCATION (SE)

- 71-290 **ACHIEVEMENT.** Science and Mathematics Education Information Report, General Bibliography Series, Bibliography 35. May 1970. 24pp. (Bibliography) ED 041 742 RIE December 1970 MF-\$0.65 HC-\$3.29

Seventy-one documents related to achievement in science and mathematics are cited. Documents include research reports, journal articles, and other materials. This bibliography supplements, but does not replace, bibliographies 5, 15 and 25 previously released by this center.

- 71-291 **CURRICULUM.** Science and Mathematics Education Information Report, General Bibliography Series, Bibliography 34. April 1970. 91pp. (Bibliography) ED 041 741 RIE December 1970 MF-\$0.65 HC-\$3.29

Reported in this bibliography are 386 citations of selected documents related to curriculum for science and mathematics education. Documents include research reports, journal articles, textbooks, and other materials. This bibliography supplements, but does not replace, bibliographies 4, 14, and 24 previously released by this center.

- 71-292 **DOCUMENTS ON SCIENCE AND MATHEMATICS EDUCATION IN RESEARCH IN EDUCATION, 1969.**

Science and Mathematics Education Information Report, Special Bibliography Series, Bibliography 2. August 1970. 52pp. (Bibliography) ED 045 389 RIE April 1971 MF-\$0.65 HC-\$3.29

This bibliography includes citations to nearly all documents listed in *Research in Education* related to science and mathematics education. The bibliography is divided into separate sections for science education and for mathematics education.

- 71-293 **EVALUATION AND EDUCATIONAL OBJECTIVES, LEARNING THEORIES AND PROCESSES, RESEARCH METHODOLOGY.** Science and Mathematics Education Information Report, General Bibliography Series, Bibliography 39. May 1970. 66pp. (Bibliography) ED 050 932 RIE September 1971 MF-\$0.65 HC-\$3.29

The documents cited are concerned with evaluation and educational objectives related to science and mathematics education, learning theories and processes related to science and mathematics education, and research methodology. Documents include research reports, journal articles, and other materials. This bibliography supplements, but does not replace, bibliographies 9, 19, and 29 previously released by this center.

- 71-294 INSTRUCTIONAL EQUIPMENT AND MATERIALS. Science and Mathematics Education Information Report, General Bibliography Series, Bibliography 33. May 1970. 78pp. (Bibliography) ED 043 490 RIE February 1971 MF-\$0.65 HC-\$3.29
- Documents related to equipment and materials for teaching science and mathematics are cited. Documents include research reports, journal articles, textbooks, and other materials. This bibliography supplements, but does not replace, bibliographies 3, 13, and 23 previously released by this center.
- 71-295 INSTRUCTIONAL PROCEDURES. Science and Mathematics Education Information Report, General Bibliography Series, Bibliography 31. April 1970. 96pp. (Bibliography) ED 047 933 RIE June 1971 MF-\$0.65 HC-\$3.29
- Contained in this bibliography are 428 citations to documents concerning instructional procedures in science and mathematics education. Documents include research reports, journal articles, and textbooks. This bibliography supplements, but does not replace bibliographies 1, 11, and 21 released by this center.
- 71-296 LEGISLATIVE ACTS AND REPORTS. ADMINISTRATION AND SUPERVISION, SCIENCE FACILITIES. Science and Mathematics Education Information Report, General Bibliography Series, Bibliography 38. May 1970. 19pp. (Bibliography) ED 043 491 RIE February 1971 MF-\$0.65 HC-\$3.29
- Contained in this bibliography are fifty-three citations to documents concerned with legislative acts and reports, administration and supervision, and mathematics and science facilities. Documents include research reports, journal articles, textbooks, and other materials. This bibliography supplements, but does not replace, bibliographies 8, 18, and 28 previously released by this center.
- 71-297 PACESETTERS IN INNOVATION, FEBRUARY 1969. Science and Mathematics Education Information Report, Special Bibliography Series, Bibliography 3. August 1970. 67pp. (Bibliography) ED 050 937 RIE September 1971 MF-\$0.65 HC-\$3.29
- Citation data and descriptive terms are provided for documents selected from *Pace-setters in Innovation* arranged in three sections--(1) documents related to science education, (2) documents related to mathematics education, and (3) documents related to both science and mathematics education.
- 71-298 SCIENCE AND SOCIETY. HISTORY OF SCIENCE AND MATHEMATICS EDUCATION, SCIENCE AND MATHEMATICS HISTORY, GENERAL STUDIES AND SURVEYS. Science and Mathematics Education Report, General Bibliography Series, Bibliography 37. May 1970. 41pp. (Bibliography) ED 044 271 RIE March 1971 MF-\$0.65 HC-\$3.29
- Contained in this bibliography are 48 citations to documents concerning science and mathematics history, history of mathematics education and science education,

interaction of science and mathematics and society, and general studies and surveys. Documents include research reports, journal articles, textbooks, and other materials. This bibliography supplements but does not replace, bibliographies 7, 17 and 27 previously released by this center.

- 71-299 TEACHER CHARACTERISTICS, STUDENT CHARACTERISTICS. Science and Mathematics Education Information Report, General Bibliography Series, Bibliography 40. April 1970. 22pp. (Bibliography) ED 043 492 RIE February 1971 MF-\$0.65 HC-\$3.29
- The documents cited concern teacher characteristics and student characteristics related to teaching and learning science and mathematics. Documents include research reports, journal articles and other materials. This bibliography supplements, but does not replace, bibliographies 10, 20 and 30 released earlier by this center.
- 71-300 TEACHER EDUCATION. Science and Mathematics Education Information Report. General Bibliography Series, Bibliography 32. April 1970. 37pp. (Bibliography) ED 041 740 RIE December 1970 MF-\$0.65 HC-\$3.29
- Reported in this bibliography are some 132 citations of selected documents related to education of science and mathematics teachers. Documents include research reports, journal articles, textbooks, and other materials. This bibliography supplements, but does not replace, bibliographies 2, 12, and 22 previously released by this center.
- 71-301 TEACHER RESOURCE MATERIALS. Science and Mathematics Education Information Report, General Bibliography Series, Bibliography 36. May 1970. 119pp. (Bibliography) ED 050 931 RIE September 1971 MF-\$0.65 HC-\$6.58
- Documents cited relate to resource materials for teaching and learning science and mathematics. Documents include research reports, journal articles, textbooks, and other materials. This bibliography supplements, but does not replace, bibliographies 6, 16, and 26 previously released by this center.
- 71-302 Ausubel, David P. THE USE OF IDEATIONAL ORGANIZERS IN SCIENCE TEACHING. March 1970. 21pp. (Paper) ED 050 930 RIE September 1971 MF-\$0.65 HC-\$3.29
- This paper was presented at the 43rd annual meeting of NARST. The nature and theoretical rationale for the use of ideational organizers presented prior to learning tasks to aid in anchoring new concepts in the learner's cognitive structure are explained. The paper was sponsored jointly by NARST and the ERIC Center for science and mathematics education.
- 71-303 Crosswhite, F. Joe and Higgins, Jon, eds. RESEARCH REPORTING SECTIONS, NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS. ANNUAL MEETING (49TH, ANAHEIM, CALIFORNIA, APRIL 14-17, 1971). 37pp. (Conference Report) ED 049 920 RIE August 1971 MF-\$0.65 HC-\$3.29

- Abstracts of research reports presented at the Research Reporting Sections at the 1971 National Conference of the National Council of Teachers of Mathematics are included. Topics include concept formation, instruction, learning, teacher behaviors, and evaluation.
- 1-304 Gallagher, James. A SUMMARY OF RESEARCH IN SCIENCE EDUCATION FOR THE YEARS 1968-69, ELEMENTARY SCHOOL LEVEL. Research Review Series, Science Paper Number 6. June 1971. 70pp. (Literature Review) ED 050 999 RIE September 1971 MF-\$0.65 HC-\$3.29
Research related to teaching and learning elementary school science for the period 1968-69 is reviewed.
- 1-305 Glass, Eugene. THE IMPLICATIONS OF RECENT DEVELOPMENTS IN EDUCATIONAL RESEARCH TO SCIENCE EDUCATORS. March 1971. 35pp. (Paper) SE 012 031 RIE issue unknown MF-\$0.65 HC-\$3.29
This paper reviews research designs and suggests promising approaches for future research.
- 71-306 Howe, Robert W. and Blosser, Patricia, eds. NATIONAL ASSOCIATION FOR RESEARCH IN SCIENCE TEACHING 44TH ANNUAL MEETING, ABSTRACTS OF PRESENTED PAPERS. February 1971. 247pp. (Abstract Journal) ED 051 000 RIE September 1971 MF-\$0.65 HC-\$9.87
Included in this journal are abstracts of nearly all research reports presented at the National Conference of the National Association for Research in Science Teaching. Abstracts are grouped as presented at the conference and include such topics as instruction, concept formation, teacher education, and evaluation.
- 71-307 Lindsay, R. Bruce. A UNIFIED APPROACH TO SCIENCE TEACHING. March 1970. 14pp. (Paper) ED 039 133 RIE September 1970 MF-\$0.65 HC-\$3.29
Address presented at the 43rd annual meeting of the National Association for Research in Science Teaching and published in *Journal of Research in Science Teaching*, 7:209-215, 1970. Suggests the introduction into advanced secondary school and elementary college programs of courses of study which emphasize science as a method for the description, creation and understanding of all aspects of human experience. Sponsored jointly by NARST and the Science and Mathematics Education Information Analysis Center.
- 71-308 Lovell, Kenneth. INTELLECTUAL GROWTH AND UNDERSTANDING MATHEMATICS. MATHEMATICS EDUCATION REPORTS. February 1971. 25pp. (Paper) ED C49 069 RIE July 1971 MF-\$0.65 HC-\$3.29
Twenty-five years of Piaget research in intellectual growth as it pertains to the learning and understanding of mathematics is reviewed. An extensive bibliography is included.
- 71-309 Lucas, Arthur. THE AUSTRALIAN SECONDARY SCHOOL PROJECT. June 1971. 13pp. (Report) SE 012 028 RIE issue unknown MF-\$0.65 HC-\$3.29
Current developmental efforts of the Australian Secondary School Science Project are described.
- 71-310 Siegelman, Irwin. RESEARCH IN SCIENCE EDUCATION AND THE DEVELOPMENT OF INSTRUCTIONAL MATERIALS. March 1971. 26pp. (Paper) SE 012 030 RIE issue unknown MF-\$0.65 HC-\$3.29
Important relationships between research and development of instructional materials are reviewed.
- 71-311 Suydam, Marilyn N. and Weaver, Fred. MATHEMATICS AND THE DISADVANTAGED. February 1971. 8pp. (Literature Review) ED 051 001 RIE September 1971 MF-\$0.65 HC-\$3.29
This literature review summarizes research related to mathematics for disadvantaged students and indicates implications for instruction.
- 71-312 Suydam, Marilyn N. and Weaver, J. Fred. THE RESEARCH FROM 1970. WHAT DID IT ADD? USING RESEARCH: A KEY TO ELEMENTARY SCHOOL MATHEMATICS. February 1971. 8pp. (Literature Review) ED 049 078 RIE July 1971 MF-\$0.65 HC-\$3.29
A review of the research reported in 1970, which might be used by the elementary teacher in facilitating mathematics education is presented.
- 71-313 Suydam, Marilyn N. RESEARCH IN ELEMENTARY SCHOOL MATHEMATICS--1970: ANNOTATED LIST OF RESEARCH REFERENCES. MATHEMATICS EDUCATION REPORTS. April 1971. 50pp. (Annotated Bibliography) ED 049 079 RIE July 1971 MF-\$0.65 HC-\$3.29
A compilation of research reports completed during 1970 related to teaching and learning elementary school mathematics is listed. Each annotation contains the major conclusions of the research, the age or grade level of subjects, the unit of analysis, and the number of units of analysis in the study.
- 71-314 Suydam, Marilyn N. TEACHING MATHEMATICS TO DISADVANTAGED PUPILS: A SUMMARY OF RESEARCH. MATHEMATICS EDUCATION REPORTS. April 1971. 68pp. (Literature Review) ED 049 934 RIE August 1971 MF-\$0.65 HC-\$3.29
This literature review summarizes research concerning teaching mathematics to disadvantaged students, and contains an extensive bibliography on the topic.
- 71-315 Tanner, James. MODELS AND RESEARCH IN SCIENCE EDUCATION CURRICULUM DEVELOPMENT. March 1971. 20pp. (Paper) SE 012 032 RIE issue unknown MF-\$0.65 HC-\$3.29
The contributions of research and curriculum development to the solution of practical school problems are reviewed, and criteria for assessing relevant research and curriculum development are identified.

- 71-316 Theiss, Frances C. SCIENCE AND MATHEMATICS FOR YOUNG CHILDREN: AN ANNOTATED BIBLIOGRAPHY. Science and Mathematics Education Information Report, Special Bibliography Series, Bibliography 4. August 1970. 42pp. (Annotated Bibliography) ED 050 938 RIE September 1971 MF-\$0.65 HC-\$3.29

Presented in the bibliography are citations and annotations for selected references related to science and mathematics for young children. This is a revision of ED 033 259; includes references published in 1969.

- 71-317 Welch, Wayne. A SUMMARY OF RESEARCH IN SCIENCE EDUCATION FOR THE YEARS OF 1968-69 SECONDARY SCHOOL LEVEL. Science and Mathematics Education Information Report, Research Review Series, Science Paper Number 7. June 1971. 66pp. (Literature Review) ED 052 051 RIE October 1971 MF-\$0.65 HC-\$3.29

Research related to teaching and learning secondary school science for the period 1968-69 is reviewed.

SOCIAL SCIENCE EDUCATION (SO)

- 71-318 Binkley, Joanne. OFF THE AFRICAN SHELF: AN ANNOTATED BIBLIOGRAPHY ON SOCIETY AND EDUCATION. Reference Series, Number 1. 1970. 39pp. (Annotated Bibliography) ED 044 349 RIE March 1971 MF-\$0.65 HC-\$3.29

A large proportion of the 39 items, drawn from RIE and CIJE are teaching guides and curriculum materials for elementary and secondary courses including study of Africa. Also listed are bibliographies, resource guides, reports of education in Africa, purpose and general structure of African studies in the curriculum, and information about Africa.

- 71-319 Ervin, Sharon B. EVERYMAN'S GUIDE: AN ERIC SEARCH SYSTEM FOR SOCIAL STUDIES TEACHERS, CONSULTANTS, AND LIBRARIANS. Reference Series, Number 2. April 1971. 16pp. (Guide) ED 049 960 RIE August 1971 MF-\$0.65 HC-\$3.29

There are four phases and one optional phase in this self-instruction guide: Problem Statement, Subject Index Search, Review of the Documents, Finding the Documents, and Using the ERIC Thesaurus. Subscription or ordering information for RIE, CIJE, ERIC Microfiche or Hard Copy, and the Thesaurus is included.

- 71-320 Helburn, Suzanne W. PREPARING TO TEACH ECONOMICS: SOURCES AND APPROACHES. Interpretive Series, Number 2. April 1971. 27pp. (Paper) ED 049 997 RIE August 1971 MF-\$0.65 HC-\$3.29

This is a tip sheet for teachers setting up a high school course in economics. Included are suggestions for fitting it into the curriculum, good introductory books on economics, suggestions for a textbook-oriented course, agencies with helpful materials, and a bibliography of reference and library materials.

- 71-321 Henderson, Martha T. ENVIRONMENTAL EDUCATION: SOCIAL STUDIES SOURCES AND APPROACHES.

Review Series, Number 1. October 1970. 43pp. (State-of-the-Art Review) ED 042 062 RIE January 1971 MF-\$0.65 HC-\$3.29

Elementary and secondary social studies teachers are alerted to new approaches to projects and materials in environmental education. Included are descriptions of programs which encourage individual inquiry; emphasize interaction between man and his environment; utilize the local environment or community; and, programs emphasizing "man in society"--the study of values, and related political, social, economic, legal and ethical ideas.

- 71-322 Hertzberg, Hazel W. HISTORICAL PARALLELS FOR THE SIXTIES AND SEVENTIES: PRIMARY SOURCES AND CORE CURRICULUM REVISITED. Interpretive Series, Number 1. April 1971. 30pp. (Paper) ED 051 066 RIE September 1971 MF-\$0.65 HC-\$3.29

The author is intent on alerting curriculum developers to cyclical elements in social studies trends during the last 90 years. She reviews the two most pervasive national movements at the secondary level. Sources cited are annotated in a six-page bibliography.

- 71-323 Turner, Mary Jane. MATERIALS FOR CIVICS, GOVERNMENT, AND PROBLEMS OF DEMOCRACY: POLITICAL SCIENCE IN THE NEW SOCIAL STUDIES. April 1971. 211pp. (State-of-the-Art Review) ED 048 071 RIE June 1971 MF-\$0.65 HC-available from Social Science Education Consortium, Inc., 970 Aurora Avenue, Boulder, Colorado 80302. (Clothbound \$5.95; Paperbound \$3.95)

A review of 49 packages developed by 42 curriculum development projects in the new social studies is presented in text and chart form. Data include availability and cost, nature of content and educational objectives, teaching strategies, appropriateness for varying teaching-learning situations, and evaluation.

TEACHER EDUCATION (SP)

- 71-324 Barbour, Chandler, comp. SCHOOL-COLLEGE RELATIONS IN PREPARING SCHOOL PERSONNEL: A BIBLIOGRAPHY. February 1971. 32pp. (Annotated Bibliography) ED 048 122 RIE June 1971 MF-\$0.65 HC-\$3.29

Although this updates an earlier bibliography developed by Helen Suchara, the new material is so extensive that it can be regarded as essentially a new publication. The 140 entries are divided into four sections.

- 71-325 Burdin, Joel L. and others, eds. ACCREDITATION AND EVALUATION OF BASIC TEACHER EDUCATION PROGRAMS: RESEARCH PROBLEMS AND PROSPECTS. May 1971. 70pp. (Collection of Speeches) ED 050 021 RIE August 1971 MF-\$0.65 HC-\$3.29

The five papers collected in this document were delivered at the 1970 American Educational Research Association symposium sponsored by the Special Interest Groups on Teacher Preparation Curriculum. All five focus on developing a research base for teacher education standards, in particular for the *Recommended Standards for Teacher Education* by the American Association of Colleges for Teacher Education.

- 71-326 Burdin, Joel L., and others, eds. COMPREHENSIVE PROPOSALS FOR TEACHER EDUCATION: A CONCISE GUIDE DERIVED FROM DONALD R. CRUICKSHANK'S STUDY OF PROPOSALS FOR SECOND-PHASE COMPREHENSIVE ELEMENTARY TEACHER EDUCATION MODELS PROJECT. April 1971. 48pp. (Summary) ED 049 165 RIE July 1971 MF-\$0.65 HC-\$3.29

This review of 27 Phase 2 proposals for the CETEM program reveals, in part, that most applicants were state colleges and universities; that they varied in their responses to guidelines; and that they found the Phase 1 work of Michigan State, Syracuse, Massachusetts, and Florida State most useful.

- 71-327 Burdin, Joel L. and Reagan, Margaret T., eds. PERFORMANCE-BASED CERTIFICATION OF SCHOOL PERSONNEL. April 1971. 132pp. (Conference Report) ED 049 152 RIE July 1971 MF-\$0.65 HC-\$6.58

The 1970 Miami Beach Training Session for National Leaders in Teacher Education was conducted by the Florida Department of Education on the invitation of the U.S. Office of Education to consider the techniques needed for using performance criteria to determine an individual's ability to perform as a teacher in public schools and thus qualify for certification.

- 71-328 Burdin, Joel L. and Reagan, Margaret T., eds. PREPARING SCHOOL PERSONNEL FOR AMERICAN INDIANS: SOME EXPLORATORY QUESTIONS AND RESPONSES WITH AN ANNOTATED BIBLIOGRAPHY. November 1970. 46pp. (Annotated Bibliography) ED 045 560 RIE April 1971 MF-\$0.65 HC-\$3.29

Topics discussed include current conditions in Indian education; the desirable

objectives in Indian education; the special needs in the education of teachers for Indian schools; the need for instructional materials which will be meaningful to the students; the organization, research, and financing involved in building an effective educational program. An 80-item bibliography is divided into 6 sections.

- 71-329 Burdin, Joel L., and others, eds. SCHOOL PERSONNEL PREPARATION FOR AMERICAN INDIANS: PRESENT STATE AND NEEDED STEPS. May 1971. 76pp. (Conference Report) ED 051 074 RIE September 1971 MF-\$0.65 HC-\$3.29

After a summary of a workshop for training educational personnel to work with American Indians, papers are presented on (1) meaningful education for Indian students, (2) a conceptual model of a teacher training program for teachers of Indians, and (3) six perspectives on Indian education. Two excerpts from major research studies are appended. (Joint Publication with ERIC Clearinghouse on Rural Education and Small Schools. 71-261,

- 71-330 Lierheimer, Alvin P. PARSING THE PARADOX: ASSURING QUALITY IN SCHOOL PERSONNEL PREPARATION. March 1971. 17pp. (Monograph) ED 048 125 RIE June 1971 MF-\$0.65 HC-\$3.29

Despite recent calls for changes in teacher certification, there are many questions to be considered before changes are made. Accountability and performance criteria are steps, but such approaches need further consideration in order to develop rationale and workable procedures. Teacher control of entry into the profession is another change being demanded.

- 71-331 Mathieson, Moira B. and Tatis, Rita M., comps. MULTICULTURAL EDUCATION: A SELECTED ANNOTATED BIBLIOGRAPHY. September 1970. 18pp. (Annotated Bibliography) ED 043 572 RIE February 1971 MF-\$0.65 HC-\$3.29

Seventy documents dealing with cultural differences and cross-cultural educational problems on the elementary-secondary-collegiate level are listed. It does not include material on the economically disadvantaged or inner city problems as such. Most items are dated 1968 or 1969.

- 71-332 Mathieson, Moira B. and Tatis, Rita M., comps. SOCIAL CHANGE AND TEACHER EDUCATION: AN ANNOTATED BIBLIOGRAPHY. August 1970. 29pp. (Annotated Bibliography) ED 043 558 RIE February 1971 MF-\$0.65 HC-\$3.29

Listed in this annotated bibliography are 137 published and unpublished documents, the majority of them dated between 1967 and 1969. Included are research reports, program descriptors, addresses, articles, and conference papers.

- 71-333 Mathieson, Moira B. and Tatis, Rita M., comps. UNDERSTANDING DISADVANTAGED YOUTH: THEIR PROBLEMS AND POTENTIALS. AN ANNOTATED BIBLIOGRAPHY. October 1970. 22pp. (Annotated Bibliography) ED 044 380 RIE

March 1971 MF-\$0.65 HC-\$3.29

Most of the 102 citations contained in this annotated bibliography are dated between 1968 and 1970. Materials were selected from those processed by ERIC; each entry includes information on microfiche and hardcopy availability.

- 71-334 Olsen, Hans C. SCHOOL-COLLEGE RELATIONS IN PREPARING SCHOOL PERSONNEL. February 1971. 53pp. (Monograph) ED 048 124 RIE June 1971 MF-\$0.65 HC-\$3.29

This monograph analyzes the current situation in the school-college relationship in preparing school personnel and suggests some future developments. The growth of this cooperation is traced; the rationale for cooperation is examined; some of the current issues and problems, as well as promising developments, considered; and four probable future developments are identified.

- 71-335 Poliakoff, Lorraine, comp. THE DISADVANTAGED. PART 2 OF A BIBLIOGRAPHIC SERIES ON MEETING SPECIAL EDUCATIONAL NEEDS. October 1970. 36pp. (Classified Bibliography) ED 044 382 RIE March 1971 MF-\$0.65 HC-\$3.29

Cited in this bibliography on the disadvantaged are 165 documents acquired and processed by the ERIC Clearinghouse on Teacher Education from July 1968 to December 1969. It is the second part of a five-part bibliography focusing on the kinds of preparation programs which enable school personnel to serve the special educational needs of all the people.

- 71-336 Poliakoff, Lorraine, comp. ETHNIC GROUPS: NEGROES, SPANISH SPEAKING, AMERICAN INDIANS, AND ESKIMOS. PART 4 OF A BIBLIOGRAPHIC SERIES ON MEETING SPECIAL EDUCATIONAL NEEDS. October 1970. 29pp. (Classified Bibliography) ED 044 384 RIE March 1971 MF-\$0.65 HC-\$3.29

This is part four of a five-part bibliography focusing on the kinds of preparation programs which enable school personnel to serve the special educational needs of all the people. As do the citations in each of the other parts, the 117 citations here include the descriptors used to index the document and information regarding availability of the document from the original publisher or through the Educational Resources Information Center.

- 71-337 Poliakoff, Lorraine, comp. INDIVIDUALIZED INSTRUCTION. Part I OF A BIBLIOGRAPHIC SERIES ON MEETING SPECIAL EDUCATIONAL NEEDS. October 1970. 23pp. (Classified Bibliography) ED 044 381 RIE March 1971 MF-\$0.65 HC-\$3.29

Cited in this bibliography are 88 documents acquired and processed by the ERIC Clearinghouse on Teacher Education from July 1968 until December 1969. It is organized in terms of document type: bibliography manual, program, research, review, conference reports and speeches. It is the first part of a five-part bibliography focusing on the kinds of preparation pro-

grams which enable school personnel to serve the special educational needs of all the people.

- 71-338 Poliakoff, Lorraine, comp. PREPARING SCHOOL PERSONNEL: EARLY CHILDHOOD EDUCATION. September 1970. 12pp. (Classified Bibliography) ED 043 581 RIE February 1971 MF-\$0.65 HC-\$3.29

Contained in this bibliography are 25 citations of published and unpublished documents ranging from 1964 through 1969 on "the means and methods by which school personnel are prepared to work with preschool age children in such settings as Head Start Programs and nursery and kindergarten classes."

- 71-339 Poliakoff, Lorraine, comp. SOME SELECTED TOPICS. PART 5 OF A BIBLIOGRAPHIC SERIES ON MEETING SPECIAL EDUCATIONAL NEEDS. October 1970. 21pp. (Classified Bibliography) ED 044 385 RIE March 1971 MF-\$0.65 HC-\$3.29

Part five of the five-part bibliography on the kinds of preparation programs which enable school personnel to serve the special educational needs of all the people includes the following subheads: rural and migrant people, intergroup education, gifted people, compensatory education, dropouts, veterans, delinquents, psychologically and physiologically handicapped, junior college education, off-campus education, and international education.

- 71-340 Poliakoff, Lorraine, comp. STRUCTURED PRACTICE IN TEACHING: A BIBLIOGRAPHY OF ERIC DOCUMENTS. February 1971. 75pp. (Classified Bibliography) ED 048 123 RIE June 1971 MF-\$0.65 HC-\$3.29

This 414-item bibliography contains citations of published and unpublished documents and journal articles processed by the Clearinghouse between July 1968 and June 1970 related to the "means and methods by which pre- and in-service school personnel can secure structured practice in developing skills and insights."

- 71-341 Poliakoff, Lorraine, comp. URBAN SOCIETY. PART 3 OF A BIBLIOGRAPHIC SERIES ON MEETING SPECIAL EDUCATIONAL NEEDS. October 1970. 26pp. (Classified Bibliography) ED 044 383 RIE March 1971 MF-\$0.65 HC-\$3.29

This is the third of a five-part bibliography focusing on the kinds of preparation programs which enable school personnel to serve the special educational needs of all the people. It cites 111 documents.

- 71-342 Tatis, Rita M. A REPORT ON THE UTILIZATION OF THE COMPUTER PROGRAM QUERY BY THE ERIC CLEARINGHOUSE ON TEACHER EDUCATION. October 1970. 35pp. (Report) ED 045 589 RIE April 1971 MF-\$0.65 HC-\$3.29

This paper reports the results of the testing and use of a batch-mode program, QUERY, in three large computer runs performed by the ERIC Clearinghouse on Teacher Education from March through August 1970. Focus is on the behavior of QUERY as a search tool, not on cost benefit analysis or comparison with alternative search tools.

TEACHING OF ENGLISH (TE)

- 71-343 Harvey, Linda, comp. ELECTIVE ENGLISH PROGRAMS IN JUNIOR AND SENIOR HIGH SCHOOLS; ELEVEN PROGRAM DESCRIPTIONS. April 1971. 114pp. (Program Descriptions) ED 049 267 RIE July 1971 MF-\$0.65 HC-\$6.58

Eleven program outlines of elective English curriculum for grades 7-12 are collected in this package to serve as a convenient resource of examples of a variety of elective programs in English.

- 71-344 Harvey, Robert C. and Denby, Robert V., comps. HUMAN RELATIONS IN THE SCHOOLS, SENSITIVITY TRAINING, AND SELF-IMAGE ENHANCEMENT. September 1970. 53pp. (Annotated Bibliography) ED 044 400 RIE March 1971 MF-\$0.65 HC-\$3.29

Abstracts of 115 ERIC documents on human relations activities for the schools, including sensitivity training and self image enhancement activities are presented.

- 71-345 Harvey, Robert C. and Denby, Robert V. "Life at an Early Age: Nourishing Self-Concept in the Classroom." ELEMENTARY ENGLISH, v47, pp.993-1001, November 1970. 9pp. (Literature Review)

This interpretive summary reviews current literature on the nature and importance of self-image enhancement and then describes several ERIC documents that discuss the problem and/or give guidance on the development of programs to aid in self-image enhancement.

- 71-346 Harvey, Robert C. and Denby, Robert V. "On Humanizing Teacher-Pupil Relations." ELEMENTARY ENGLISH, v47, pp.1121-1134, December 1970. 14pp. (Literature Review)

This interpretive summary reviews current literature on the need for human relations training for teachers and on the nature of various kinds of human relations activities (including "sensitivity training") and describes several ERIC documents that can guide the development of human relations activities for language arts teachers.

- 71-347 Harvey, Robert C. and Denby, Robert V. "A Reference Shelf for Curriculum Planning. Part I: Perspectives." ENGLISH JOURNAL, v59, pp.1177-1185, November 1970. 9pp. (Literature Review)

Significant events in the theory of English instruction in the last decade are discussed, and documents that can provide both historical and current awareness--providing, altogether, a perspective from which English teachers can view their own curriculum planning--are cited.

- 71-348 Harvey, Robert C. "Teaching ERIC." ENGLISH EDUCATION, v1, pp.25-30, November 1970. 6pp. (Journal Article)

Presented in this article are various ways the ERIC system can be taught to prospective English teachers, and how students can make the best use of ERIC products even while they are students.

- 71-349 Kinnick, B. Jo., comp. BASIC ANNOTATED BIBLIOGRAPHY ON CREATIVE WRITING. September 1970. 9pp. (Annotated Bibliography) HC--available from the ERIC Clearinghouse on the Teaching of English

The twenty-seven books and articles cited in this bibliography can aid teachers at all levels to make creative writing integral to English teaching and part of every student's experience.

- 71-350 Kirkton, Carole M. "Class Discussion and the Craft of Questioning." ENGLISH JOURNAL v60; pp.408-413, 421; March 1971. 7pp. (Literature Review)

The current literature discussing the theory of the importance of class discussion in the learning process is reviewed and several ERIC documents on the subject are described.

- 71-351 Kirkton, Carole M. "Classroom Dramatics: Developing Oral Language Skills." ELEMENTARY ENGLISH, v48, pp.254-261, February, 1971. 8pp. (Literature Review)

The current theory on the importance of oral language practice in developing linguistic competence among elementary school children is reviewed and several ERIC documents on the subject are described.

- 71-352 Kirkton, Carole M. "An ERIC Guide to Micro-teaching Evaluation." ENGLISH EDUCATION, v2, pp.142-149, May 1971. 8pp. (Journal Article)

Using several ERIC documents that deal with the effectiveness of microteaching, this article demonstrates the use of the ERIC system to professors of English education.

- 71-353 Kirkton, Carole M. "Language Acquisition and Development: Some Implications for the Classroom." ELEMENTARY ENGLISH, v48, pp.406-412, March 1971. 7pp. (Literature Review)

The current literature is reviewed in this summary in order to inform language arts teachers of some of the recent findings in research into language acquisition and development and to indicate some of the implications of that research for the teaching of reading and writing and for the selection of textbooks. Several ERIC documents that provide further guidance are also described.

- 71-354 Kirkton, Carole M. "Learning to Write: Steps in the Process." ELEMENTARY ENGLISH, v48, pp.303-311, April 1971. 9pp. (Literature Review)

The findings of recent research as to the stages of development in children's writing are reviewed, and several ERIC documents that will assist teachers in capitalizing on what is known about how children learn to write as they are peer teaching other children is described.

- 71-355 Kirkton, Carole M. "The Play's the Thing: Theatre and Dramatic Arts in Secondary Schools." ENGLISH JOURNAL, v60, pp.533-539, April 1971. 7pp. (Literature Review)

The current theory about the function of dramatic arts in the language arts programs of secondary schools is reviewed, and several documents are cited which suggest how those theories can be put into practice.

- 71-356 Kirkton, Carole M. "Reading to Teach: Summer in Professional Lit." ENGLISH JOURNAL, v60, pp.670-677, May 1971. 8pp. (Literature Review)

The effectiveness of outside reading on improving teaching performance is reviewed, and several recent books (announced through ERIC) are recommended for inservice and preservice teacher education.

- 71-357 Kirkton, Carole M. "A Reference Shelf for Curriculum Planning. Part II: Elective English." ENGLISH JOURNAL, v59, pp.1306-1312, December 1970. 7pp. (Literature Review)

The rationale for and the components of phase-elective English programs is discussed, and documents that can provide further guidance and additional resource material for developing and implementing phase-elective English programs in secondary schools are described.

- 71-358 Kirkton, Carole M. "A Reference Shelf for Curriculum Planning: Part III--Behavioral Objectives." ENGLISH JOURNAL, v60, pp.142-150, January 1971. 9pp. (Literature Review)

The advantages and disadvantages of writing behavioral objectives for English instruction are reviewed, and several ERIC documents that can provide additional guidance and resource material are described.

- 71-359 Kirkton, Carole M. "Summer Read-in: Professional Lit." ELEMENTARY ENGLISH, v48, pp. 563-570, May 1971. 8pp. (Literature Review)

The effectiveness of outside professional reading on improving teaching performance is reviewed, and several books are recommended for inservice and preservice education for elementary teachers.

- 71-360 Kubicek, Linda A., comp. ELECTIVE ENGLISH PROGRAMS IN JUNIOR AND SENIOR HIGH SCHOOLS. September 1970. 125pp. (Program Descriptions) ED 041 182 RIE December 1970 MF-\$0.65 HC-\$6.58

Fourteen program outlines of elective English curriculums, representing thirteen school systems, are collected in one package to serve as a convenient resource for examples of elective programs in English--two junior high school programs and twelve programs from senior high schools.

- 71-361 Larson, Richard L. THE EVALUATION OF TEACHING COLLEGE ENGLISH. May 1971. 101pp. (Monograph) ED 049 268 RIE July 1971 MF-\$0.65 HC-\$6.58

A review of theory and various procedures of evaluation as reflected in the professional literature and in correspondence

from chairmen of departments of English and the Humanities is presented. This monograph also contains appendixes of samples of different types of evaluation forms, and a selected bibliography.

- 71-362 Malkoc, Anna Maria and Roberts, A. Hood. "Bi-Dialectalism: A Special Report from CAL/ERIC." ELEMENTARY ENGLISH, v48, pp.125-136, January 1971. ENGLISH JOURNAL, v60, pp.279-288, February 1971. 10pp. (Literature Review)

Current literature on the advantages of teaching English as a second "dialect" to pupils in the elementary grades is reviewed, and several ERIC documents that give practical guidance to the elementary English teacher are described.

- 71-363 O'Donnell, Bernard. "Priority Projects for the Teaching of English: 1970." ENGLISH JOURNAL, v59, pp.868-874, September 1970. ELEMENTARY ENGLISH, v47, pp.769-776, October 1970. 7pp. (Journal Article)

This article acquaints the English-teaching profession with the results of NCTE/ERIC's six-month (Jan.-June 1970) survey to identify priority needs in the profession. It lists and describes projects in research and in information analysis which would meet needs in teaching reading, instructing the disadvantaged, and educating young children.

- 71-364 Scannell, William J., ed. RECOMMENDED ENGLISH CURRICULUM GUIDES K-12 AND CRITERIA FOR PLANNING AND EVALUATION. November 1970. 35pp. (Annotated Bibliography) ED 044 419 RIE March 1971 MF-\$0.65 HC-\$3.29

Informative and evaluative annotations for thirty-three elementary and secondary curriculum guides are provided. These guides, reviewed and recommended in 1966-1967, are presented to provide models for schools and agencies in developing curricula and in writing guides.

- 71-365 Sheldon, William D., and others. A SUMMARY OF INVESTIGATIONS RELATING TO THE ENGLISH LANGUAGE ARTS IN ELEMENTARY AND SECONDARY EDUCATION: 1969. April 1971. 48pp. (Literature Review) ED 049 266 RIE July 1971 MF-\$0.65 HC-\$3.29

Part 1 of this report presents a summary of 111 research studies relating to language arts in elementary education in 1969; Part 2 summarizes the results of research reported in 100 journals in 1969 on the teaching of English in secondary schools.

- 71-366 Thiess, Carolyn W. and Butler, Donna L., eds. ERIC DOCUMENTS ON THE TEACHING OF ENGLISH. VOLUME 4: JANUARY-JUNE 1970. September 1970. 77pp. (Bibliography) ED 043 645 RIE February 1971 MF-\$0.65 HC-\$3.29

Listed in this bibliography are 1138 documents and journal articles of interest to teachers of English, all processed by ERIC and announced in RIE or indexed in CIJE from January through June 1970. The entries are classified under fourteen subject headings and indexed by author.

TESTS, MEASUREMENT, AND EVALUATION (TM)

- 71-367 Jackson, Rex. DEVELOPING CRITERION-REFERENCED TESTS. June 1970. 18pp. (Paper) ED 041 052 RIE November 1970 MF-\$0.65 HC-\$3.29

Present definitions of the criterion-referenced test are discussed, insufficiencies noted, and a new definition proposed. Some examples of criterion-referenced tests are examined and used to

educate some general principles for the development of such tests. Problems and doubts with regard to the development of criterion-referenced tests for complex behavior domains are noted and in addition, some empirical methods for dealing with item analysis, test reliability, and test validity difficulties are advanced.

DISADVANTAGED (UD)

- 71-368 Baronberg, Joan. BLACK REPRESENTATION IN CHILDREN'S BOOKS. ERIC-IRCD Urban Disadvantaged Series, Number 21. May 1971. 27pp. (Paper) ED 050 188 RIE August 1971 MF-\$0.65 HC-\$3.29

This paper considers evidence for the "birth," development, and incidence of racial attitudes in children, and reviews the nature and extent of the appearance of blacks in children's books. Included is an annotated bibliography of 56 books with recommended items asterisked.

- 71-369 Esposito, Dominick. STRUCTURE AND FUNCTION: A BEHAVIORAL AND SYSTEMIC INTERPRETATION. ERIC-IRCD Urban Disadvantaged Series, Number 20. May 1971. 118pp. (Paper) ED 050 187 RIE August 1971 MF-\$0.65 HC-\$6.58

This paper presents: (1) evidence which indicates that in a relatively desegregated school setting, the practice of assigning students according to homogeneous ability grouping tends to separate them along ethnic and socioeconomic dimensions, and (2) a theoretical discussion of the process underlying the interrelationships between structure and functional characteristics of objects interacting in an environment.

- 71-370 Goldstein, Ellen R., comp. PRINCIPAL SOURCES FOR THE STUDY OF THE MUTABILITY OF INTELLIGENCE AND THE EPIDEMIOLOGY OF MILD MENTAL RETARDATION. ERIC-IRCD Urban Disadvantaged Series, Number 19. September 1970. 71pp. (Annotated Bibliography) ED 042 837 RIE January 1971 MF-\$0.65 HC-\$3.29

Resource materials listed focus on: cognitive and social changes in the feeble minded; mental and scholastic tests for retarded children; early education of the retarded and disadvantaged; verbal development of imbecile children; growth and development of mongoloids in childhood; and, intelligence increments in families of dull children.

- 71-371 Gordon, Edmund W. "Compensatory Education: Evaluation in Perspective." IRCD Bulletin v6 n5, December 1970. 12pp. (Journal Article) UD 011 520 RIE issue unknown MF-\$0.65 HC-\$3.29

A theoretical formulation of the special problems of evaluating compensatory education programs is developed.

- 71-372 Jablonsky, Adelaide. "Media for Teaching Afro-American Studies." IRCD Bulletin, v6 n1 and 2, Spring, Summer 1970, September

1970. 23pp. (Literature Review) ED 042 856 RIE January 1971 MF-\$0.65 HC-\$3.29

This issue of the Bulletin is devoted to media and media resources for teaching Afro-American studies. Contains reviews of media resources as evaluated for relevance and effectiveness by a number of participating black reviewers. Units consisting of filmstrips with records were considered more effective than either of these alone.

- 71-373 Gussow, Joan D. "Bodies, Brains and Poverty: Poor Children and the Schools." IRCD BULLETIN, v6 n3, September 1970. 20pp. (State-of-the-Art Review) ED 047 025 RIE May 1971 MF-\$0.65; HC-\$3.29

This issue reviews the status of research relating to health, nutrition, and learning as pertaining to children from economically disadvantaged families. Also includes an article on recommendations for child health care, and excerpts from the testimony of a superintendent of schools before the Senate Select Committee on Nutrition and Human Needs, January 1969.

- 71-374 Gordon, Edmund W., ed. "Access and Appraisal: Continuing Education, Higher Education, Career Entry. The Report of the Commission on Tests to the College Entrance Examination Board." IRCD BULLETIN, v6 n4, November 1970. 12pp. (Report) ED 049 324 RIE July 1971 MF-\$0.65 HC-\$3.29

This issue is comprised of Part I of the Report of the Commission on Tests, College Entrance Examination Board, 1970, and is a review of the Commission's recommendations to the Board.

- 71-375 Gordon, Edmund W. SIGNIFICANT TRENDS IN THE EDUCATION OF THE DISADVANTAGED. ERIC-IRCD Urban Disadvantaged Series, Number 17. August 1970. 24pp. (State-of-the-Art Review) ED 040 305 RIE November 1970 MF-\$0.65 HC-\$3.29

This paper reviews the wide variety of approaches and issues in research relating to the education of the disadvantaged in the decade of the sixties. Relevant works are designated in two categories: the study of population characteristics and the description and evaluation of programs and practices.

- 71-376 Jayatilleke, Raja, comp. HUMAN RELATIONS IN THE CLASSROOM: AN ANNOTATED BIBLIOGRAPHY. ERIC-IRCD Urban Disadvantaged Series, Number 22. June 1971. 65pp. (Annotated Bibli-

ography) ED 051 315 RIE September 1971 MF-\$0.65 HC-\$3.29

This bibliography covers materials relating to the period November 1966-March 1971 (ERIC documents) and January 1969-April 1971 (Articles), and dealing with such issues as: race relations, racial attitudes and recognition, human relations, classroom environment, ethnic and African American studies, activism, teacher and student attitudes, student-teacher relationships, teacher education, and psychological identification.

71-377 Stein, Zena and Susser, Mervyn. "Mutability of Intelligence and Epidemiology of Mild Mental Retardation." ERIC-IRCD Urban Disadvantaged Series, Number 18. September 1970. REVIEW OF EDUCATIONAL RESEARCH, v40 n1, pp. 29-67, February 1970. 41pp. (State-of-the-Art Review) UD 010 589 HC-limited quantities also available for ERIC Clearinghouse for the Disadvantaged

The objective of this paper is to find a secure basis for statements about mutability of intelligence and to set those statements out as testable propositions.

VOCATIONAL AND TECHNICAL EDUCATION (VT)

71-378 ABSTRACTS OF INSTRUCTIONAL MATERIALS IN VOCATIONAL AND TECHNICAL EDUCATION (AIM), Spring 1970. 1970. 166pp. (Abstract Journal) ED 041 159 RIE November 1970 MF-\$0.65 HC-\$6.58

Instructional materials acquired and processed by the Clearinghouse for Vocational and Technical Education are classified by vocational or supporting service areas (e.g. Agricultural Education, Business and Office Education, etc.) Each item is also indexed by personal and institutional author, major subjects and identifiers. AIM is issued quarterly (Fall, Winter, Spring, Summer) and began Fall 1967.

71-379 ABSTRACTS OF INSTRUCTIONAL MATERIALS IN VOCATIONAL AND TECHNICAL EDUCATION (AIM), Summer 1970. 1970. 170pp. (Abstract Journal) ED 042 930 RIE January 1971 MF-\$0.65 HC-\$6.58

Instructional materials acquired and processed by the Clearinghouse for Vocational and Technical Education are classified by vocational or supporting service areas (e.g. Agricultural Education, Business and Office Education, etc.) Each item is also indexed by personal and institutional author, major subjects and identifiers. AIM is issued quarterly (Fall, Winter, Spring, Summer) and began Fall 1967.

71-380 ABSTRACTS OF INSTRUCTIONAL MATERIALS IN VOCATIONAL AND TECHNICAL EDUCATION (AIM), Fall 1970. 1970. 175pp. (Abstract Journal) ED 045 853 RIE April 1971 MF-\$0.65 HC-\$6.58

Instructional materials acquired and processed by the Clearinghouse for Vocational and Technical Education are classified by vocational or supporting service areas (e.g. Agricultural Education, Business and Office Education, etc.) Each item is also indexed by personal and institutional author, major subjects and identifiers. AIM is issued quarterly (Fall, Winter, Spring, Summer) and began Fall 1967.

71-381 ABSTRACTS OF INSTRUCTIONAL MATERIALS IN VOCATIONAL AND TECHNICAL EDUCATION (AIM), Winter 1970. 1971. 153pp. (Abstract Journal) ED 048 514 RIE June 1971 MF-\$0.65 HC-\$6.58

Instructional materials acquired and processed by the Clearinghouse for Vocational and Technical Education are classified by vocational or supporting service

areas (e.g. Agricultural Education, Business and Office Education, etc.) Each item is also indexed by personal and institutional author, major subjects and identifiers. AIM is issued quarterly (Fall, Winter, Spring, Summer) and began Fall 1967.

71-382 ABSTRACTS OF RESEARCH AND RELATED MATERIALS IN VOCATIONAL AND TECHNICAL EDUCATION (ARM), Summer 1970. 1970. 227pp. (Abstract Journal) ED 042 036 RIE December 1970 MF-\$0.65 HC-\$9.87

Research and research related materials acquired and processed by the Clearinghouse for Vocational and Technical Education are classified by topical areas (e.g. administration and supervision, employment and occupations, evaluation and measurement, etc.) Each report is also indexed by personal and institutional author, major subjects and identifiers, and vocational or supporting services. ARM is issued quarterly (Fall, Winter, Spring, Summer) and began Fall 1967.

71-383 ABSTRACTS OF RESEARCH AND RELATED MATERIALS IN VOCATIONAL AND TECHNICAL EDUCATION (ARM), Fall 1970. 1971. 563pp. (Abstract Journal) ED 045 857 RIE April 1971 MF-\$0.65 HC-\$19.74

Research and research related materials acquired and processed by the Clearinghouse for Vocational and Technical Education are classified by topical areas (e.g. administration and supervision, employment and occupations, evaluation and measurement, etc.) Each report is also indexed by personal and institutional author, major subjects and identifiers, and vocational or supporting services. ARM is issued quarterly (Fall, Winter, Spring, Summer) and began Fall 1967.

71-384 ABSTRACTS OF RESEARCH AND RELATED MATERIALS IN VOCATIONAL AND TECHNICAL EDUCATION (ARM), Winter 1970. 1971. 237pp. (Abstract Journal) ED 048 516 RIE June 1971 MF-\$0.65 HC-\$9.87

Research and research related materials acquired and processed by the Clearinghouse for Vocational and Technical Education are classified by topical areas (e.g. administration and supervision, employment and occupations, evaluation and measurement, etc.) Each report is also indexed by personal and institutional author, major sub-

jects and identifiers, and vocational or supporting services. ARM is issued quarterly (Fall, Winter, Spring, Summer) and began Fall 1967.

- 71-385 ABSTRACTS OF INSTRUCTIONAL MATERIALS IN VOCATIONAL AND TECHNICAL EDUCATION AND ABSTRACTS OF RESEARCH AND RELATED MATERIALS IN VOCATIONAL AND TECHNICAL EDUCATION. ANNUAL INDEX, 1969-70. 1970. 134pp. (Abstract Journal) ED 042 929 RIE January 1971 MF-\$0.65 HC-\$6.58

This annual publication includes cumulative indexes to the Fall 1969-Summer 1970 issues of the quarterly publications: "Abstracts of Instructional Materials in Vocational and Technical Education" (AIM) and "Abstracts of Research and Related Materials in Vocational and Technical Education." (ARM)

- 71-386 Bailey, Lena C. REVIEW AND SYNTHESIS OF RESEARCH ON CONSUMER AND HOMEMAKING EDUCATION. Information Series, Number 33. April 1971. 79pp. (State-of-the-Art Review) ED 048 482 RIE June 1971 MF-\$0.65 HC-\$3.29

Legislation enacted during 1968 gave new focus and special emphasis to consumer and homemaking education. Much recent research has also been concerned with this important priority topic. Discussed within the publication are the topical areas of consumer education, disadvantaged, homemaking, teacher education, and research methodology.

- 71-387 Beasley, Gary F. and Russell, Earl B. "Environment-Related Research in Agricultural Education, 1969-70." THE AGRICULTURAL EDUCATION MAGAZINE, v43 n9, pp.229-230, March 1971. 2pp. (Journal Article)

This article cites agricultural education research completed and in progress related to environment.

- 71-388 Bick, Garry R. WORKING WITH OPINION LEADERS TO ACCELERATE CHANGE IN VOCATIONAL-TECHNICAL EDUCATION, AN APPLICATION OF RESEARCH. Information Series, Number 26. November 1970. 27pp. (Paper) ED 044 502 RIE March 1971 MF-\$0.65 HC-\$3.29

The compact nature of the review and its organization into guideline format should be of assistance to practitioners in identifying current research findings in innovative practices to improve operating programs. The content includes suggestions for identifying opinion leaders, influencing opinion leaders, assisting opinion leaders in dissemination, and achieving mass adoption.

- 71-389 Brandon, George L., ed. "Research Visibility: Educating Women for the World of Work." AMERICAN VOCATIONAL JOURNAL, v45 n9, pp.33-48, December 1970. 16pp. (Journal Article) ED 045 849 RIE April 1971 MF-\$0.65 HC-\$3.29

The eleven research reports presented deal with the work situation of women in the United States, England and France. Twenty-two additional studies are cited in the bibliography.

- 71-390 Brandon, George L., ed. "Research Visibility: Improving Vocational Education." AMERICAN VOCATIONAL JOURNAL, v45 n7, pp.41-56, October 1970. 16pp. (Journal Article) ED 043 775 RIE February 1971 MF-\$0.65 HC-\$3.29

The 14 research reviews presented deal with training of educational personnel, and curriculum and classroom technique. An additional 27 studies are included.

- 71-391 Brandon, George L., ed. "Research Visibility: Manpower Development, Vo-Ed for the Disadvantaged." AMERICAN VOCATIONAL JOURNAL, v43 n6, pp.41-56, September 1970. 16pp. (Journal Article) ED 042 916 RIE January 1971 MF-\$0.65 HC-\$3.29

The 16 research reviews describe manpower development forecasting, prevocational training and family service counseling for the disadvantaged, and a review of the neighborhood Youth Corps. A bibliography of 18 additional items are cited.

- 71-392 Brandon, George L., ed. "Research Visibility: Research and Evaluation." AMERICAN VOCATIONAL JOURNAL, v46 n2, pp.79-86, February 1971. 4pp. (Journal Article) ED 048 488 RIE June 1971 MF-\$0.65 HC-\$3.29

A brief review is presented of 18 selected studies in vocational, technical and practical arts education.

- 71-393 Brandon, George L., ed. "Research Visibility: Vocational Education Research." AMERICAN VOCATIONAL JOURNAL, v46 n1, pp.65-68, January 1971. 4pp. (Journal Article) ED 047 150 RIE May 1971 MF-\$0.65 HC-\$3.29

The 16 selected studies cover: human potential and human resources, reports from voc-tec centers, careers and new careers, disadvantaged adults and the handicapped, and reports from universities.

- 71-394 Brandon, George L., ed. "Research Visibility: Vocational Education Research: A Status Report." AMERICAN VOCATIONAL JOURNAL, v45 n8, pp.65-80, November 1970. 16pp. (Journal Article) ED 044 522 RIE March 1971 MF-\$0.65 HC-\$3.29

A brief review of 12 selected studies in vocational, technical and practical arts education is presented.

- 71-395 Budke, Wesley E. "Occupational Exploration--An Aspect of Vocational Education." THE AGRICULTURAL EDUCATION MAGAZINE, v43 n12, pp.310-311, June 1971. 2pp. (Journal Article)

This article gives current program status and recommendations for further development of occupational exploration programs. Based on Clearinghouse publication, *Review and Synthesis of Information on Occupational Exploration*, June 1971.

- 71-396 Budke, Wesley. REVIEW AND SYNTHESIS OF INFORMATION ON OCCUPATIONAL EXPLORATION. June 1971. (State-of-the-Art Review) VT 012 730 RIE issue unknown

The aim of this review is to serve as a useful reference for educators who will be

developing occupational exploration programs in kindergarten through Grade 12. The primary focus is on total school responsibility in organizing, implementing, and operating occupations exploration programs.

- 71-397 Butler, Roy and York, Edwin. WHAT SCHOOL ADMINISTRATORS SHOULD KNOW ABOUT COOPERATIVE VOCATIONAL EDUCATION. June 1971. (Paper) VT 012 906 RIE issue unknown
The focus of this brief paper is on the review of key administrative concepts relative to cooperative vocational education. A key reference for administrators is included.
- 71-398 Butler, Roy and York, Edwin. WHAT TEACHER-COORDINATORS SHOULD KNOW ABOUT COOPERATIVE VOCATIONAL EDUCATION. June 1971. (Paper) VT 012 905 RIE issue unknown
This publication is designed to serve teacher coordinators interested in reviewing the key concepts relative to cooperative vocational education. The paper is written to the teacher and provides suggestions for planning the program, coordinating the program, and evaluating the program. Key references are provided in a bibliography.
- 71-399 Carpenter, Earl T. and Rodgers, John H. REVIEW AND SYNTHESIS OF RESEARCH IN AGRICULTURAL EDUCATION, SECOND EDITION. Research Series, Number 59. June 1970. 90pp. (State-of-the-Art Review) ED 040 275 RIE October 1970 MF-\$0.65 HC-\$3.29
A major purpose of the work was to serve as a convenience source for obtaining an overview of research reported during the past three years in agricultural education. Major content areas include philosophy and objectives, manpower needs, teacher education, learning processes, instructional materials, curriculum development, administration and supervision, education programs, facilities and equipment, student personnel services, and evaluation.
- 71-400 Clary, Joseph R. REVIEW AND SYNTHESIS OF RESEARCH AND DEVELOPMENTAL ACTIVITIES CONCERNING STATE ADVISORY COUNCILS ON VOCATIONAL EDUCATION. Information Series, Number 22. September 1970. 55pp. (State-of-the-Art Review) ED 043 744 RIE February 1971 MF-\$0.65 HC-\$3.29
A review and synthesis of research and developmental activities on the background, legal status, composition, organization, and problems and questions concerning state advisory councils on vocational and technical education.
- 71-401 Hensel, J.W. THE CHANGE PROCESS IN EDUCATION: A SELECTED AND ANNOTATED BIBLIOGRAPHY. FINAL REPORT. Bibliography Series, Number 5. 1970. 97pp. (Annotated Bibliography) ED 041 108 RIE November 1970 MF-\$0.65 HC-\$3.29
This effort was designed to identify literature which might reveal viable alternatives for managing change as it occurs in man's social, technological, and occupa-

tional environment. The bibliography was compiled for use by researchers interested in studying the change process. The bibliography is selective rather than inclusive.

- 71-402 Kintgen, Jean. INTERPRETATION OF LITERATURE ON CAREER LADDERS AND LATTICES IN HEALTH OCCUPATIONS EDUCATION. Information Series, Number 23. September 1970. 29pp. (Literature Review) ED 042 919 RIE January 1971 MF-\$0.65 HC-\$3.29
The need for personnel in the health areas at various levels seems to be unquestioned. There is growing concern about the lack of provisions for vertical and horizontal mobility in the emerging educational patterns. This brief review, analysis, and bibliography was designed to show where such ladders and lattices have been under development and to report on information related to such programs.
- 71-403 Lewis, Wiley B. REVIEW AND ANALYSIS OF CURRICULA FOR OCCUPATIONS IN CONSTRUCTION. Information Series, Number 24. October 1970. 34pp. (State-of-the-Art Review) ED 044 496 RIE March 1971 MF-\$0.65 HC-\$3.29
This *Review and Analysis of Curricula for Occupations in Construction* was designed to aid curriculum development specialists, researchers and practitioners in assessing the current state-of-the-art related to curriculum development for construction occupations. The compact nature of the review should be of assistance to practitioners in identifying current curriculum offerings and useful materials to improve operating programs.
- 71-404 Lewis, Wiley B. REVIEW AND ANALYSIS OF CURRICULA FOR OCCUPATIONS IN ENVIRONMENTAL CONTROL. Information Series, Number 30. December 1970. 36pp. (State-of-the-Art Review) ED 045 817 RIE April 1971 MF-\$0.65 HC-\$3.29
This *Review and Analysis of Curricula for Occupations in Environmental Control* was designed to aid curriculum development specialists, researchers, and practitioners in assessing the current state-of-the-art in the field. The compact nature of the review should be of assistance to practitioners in identifying current curriculum offerings and useful materials to improve operating programs.
- 71-405 Lewis, Wiley B. REVIEW AND ANALYSIS OF CURRICULA FOR OCCUPATIONS IN FOOD PROCESSING AND DISTRIBUTION. Information Series, Number 32. December 1970. 39pp. (State-of-the-Art Review) ED 045 820 RIE April 1971 MF-\$0.65 HC-\$3.29
This *Review and Analysis of Curricula for Occupations in Food Processing and Distribution* was designed to aid curriculum development specialists, researchers, and practitioners in assessing the current state-of-the-art in the field. The compact nature of the review should be of assistance to practitioners in identifying current curriculum offerings and useful materials to improve operating programs.

- 71-406 Lewis, Wiley B. REVIEW AND ANALYSIS OF CURRICULA FOR OCCUPATIONS IN HEALTH. Information Series, Number 27. November 1970. 38pp. (State-of-the-Art Review) ED 044 507 RIE March 1971 MF-\$0.65 HC-\$3.29

This *Review and Analysis of Curricula for Occupations in Health* was designed to aid curriculum development specialists, researchers, and practitioners in assessing the current state-of-the-art in the field. The compact nature of the review should be of assistance to practitioners in identifying current curriculum offerings and useful materials to improve operating programs.

- 71-407 Lewis Wiley B. REVIEW AND ANALYSIS OF CURRICULA FOR OCCUPATIONS IN PUBLIC SERVICES. Information Series, Number 29. November 1970. 39pp. (State-of-the-Art Review) ED 045 813 RIE April 1971 MF-\$0.65 HC-\$3.29

This *Review and Analysis of Curricula for Occupations in Public Services* was one of a series of information analysis papers designed to aid curriculum development specialists, researchers, and practitioners in assessing the current state-of-the-art in the field. The compact nature of the review should be of assistance to practitioners in identifying current curriculum offerings and useful materials to improve operating programs.

- 71-408 Lewis, Wiley B. REVIEW AND ANALYSIS OF CURRICULA FOR OCCUPATIONS IN TRANSPORTATION. Information Series, Number 28. December 1970. 38pp. (State-of-the-Art Review) ED 045 814 RIE April 1971 MF-\$0.65 HC-\$3.29

This *Review and Analysis of Curricula for Occupations in Transportation* was designed to aid curriculum development specialists, researchers, and practitioners in assessing the current state-of-the-art in the field. The compact nature of the review should be of assistance to practitioners in identifying current curriculum offerings and useful materials to improve operating programs.

- 71-409 Mason, Emmett. INDUSTRIAL ARTS CURRICULUM IMPROVEMENTS: A CHANGE AGENT'S GUIDE. June 1971. (Paper) VT 012 875 RIE issue unknown

Contained with this publication are various industrial arts curriculum alternatives and suggestions for achieving their adoption. The document is written in guideline form for use by practitioners.

- 71-410 McCracken, J. David. "From the Research Editor's Desk." THE AGRICULTURAL EDUCATION MAGAZINE, v43 n8, p.190, February 1971. 1p. (Journal Article)

This article discusses research problems and procedures for studies dealing with follow-up studies of vocational and technical education. A section of ED 037 543, a review and synthesis of research developed

by Kenneth Little for the ERIC Clearinghouse on Vocational and Technical Education is summarized.

- 71-411 McCracken, J. David. "Research in Agricultural Education: A Critique." THE AGRICULTURAL EDUCATION MAGAZINE, v43 n5, pp.109-111, November 1970. 3pp. (Journal Article)

This article critiques research in terms of substantive focus, persons conducting research, design and methodology, and application of research to practice.

- 71-412 Robinson, Oliver W. and Schmitt, Henry. WHAT SCHOOL ADMINISTRATORS SHOULD KNOW ABOUT VOCATIONAL EDUCATION FOR DISADVANTAGED YOUTH IN RURAL AREAS. June 1971. (Paper) VT 012 965 RIE issue unknown

This publication is designed to serve school administrators interested in reviewing the key administrative concepts relative to the vocational education programs for disadvantaged youth in rural areas.

- 71-413 Snyder, Thomas R. and Butler, Roy L. REVIEW AND ANALYSIS OF CURRICULA FOR OCCUPATIONS IN METALWORKING. Information Series, Number 25. October 1970. 31pp. (State-of-the-Art Review) ED 044 495 RIE March 1971 MF-\$0.65 HC-\$3.29

This *Review and Analysis of Curricula for Occupations in Metalworking* was designed to aid curriculum development specialists, and practitioners in assessing the current state-of-the-art in the field. The compact nature of the review should be of assistance to practitioners in identifying available curriculum materials to improve operating programs.

- 71-414 Wallace, Harold R. REVIEW AND SYNTHESIS OF RESEARCH ON COOPERATIVE VOCATIONAL EDUCATION. Research Series, Number 60. June 1970. 124pp. (State-of-the-Art Review) ED 040 274 RIE October 1970 MF-\$0.65 HC-\$6.58

This paper is one aspect of an effort to report the state-of-the-art concerning cooperative vocational education. The content includes basic concepts, the student learner, the employment community, educational technology, program implementation, and priorities, problems, and issues. Discussed within the report are various types of work experience programs and their contribution to student development.

- 71-415 Warmbrod, Catherine P. REVIEW AND SYNTHESIS OF LITERATURE ON RESIDENTIAL SCHOOLS IN VOCATIONAL AND TECHNICAL EDUCATION. Information Series, Number 31. December 1970. 41pp. (State-of-the-Art Review) ED 045 821 RIE April 1971 MF-\$0.65 HC-\$3.29

It is the purpose of this publication to identify and describe from available literature the residential vocational programs that have been established. Their contributions, problems, successes, diver-

sity and needs served are analyzed and presented. The legislative history and historical context of these provisions also are documented.

71-416 York, Edwin and Butler, Roy. WHAT STATE LEADERS SHOULD KNOW ABOUT COOPERATIVE VOCATIONAL EDUCATION. June 1971. (Paper)

VT 012 907 RIE issue unknown

Key concepts relative to cooperative vocational education are reviewed. The content includes essential elements of successful programs, planning and implementation, extension and improvement of programs, recruitment and training of coordinators, promotional activities, and evaluation.

SUBJECT INDEX

This index was compiled by using the major descriptors and identifiers assigned by the ERIC Clearinghouses.

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