

ERIC REPORT RESUME

ERIC ACC. NO. <i>ED 032 443</i>		IS DOCUMENT COPYRIGHTED? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
CH ACC. NO. <i>AA 000 409</i>	P.A.	PUBL. DATE <i>Jul 69</i>	ISSUE <i>SEVENTH</i>
		ERIC REPRODUCTION RELEASE? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
		LEVEL OF AVAILABILITY I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/>	

AUTHOR

TITLE
Science Education Information Report, General Bibliography Series 27, Science and Society, History of Science Education, Science History, General Studies and Surveys.

SOURCE CODE <i>RUF24927</i>	INSTITUTION (SOURCE) ERIC Information Analysis Center for Science Education, Columbus, Ohio
---------------------------------------	---

SP. AG. CODE	SPONSORING AGENCY
---------------------	--------------------------

EDRS PRICE <i>0.25;1.45</i>	CONTRACT NO.	GRANT NO.
---------------------------------------	---------------------	------------------

REPORT NO.	BUREAU NO.
-------------------	-------------------

AVAILABILITY

JOURNAL CITATION

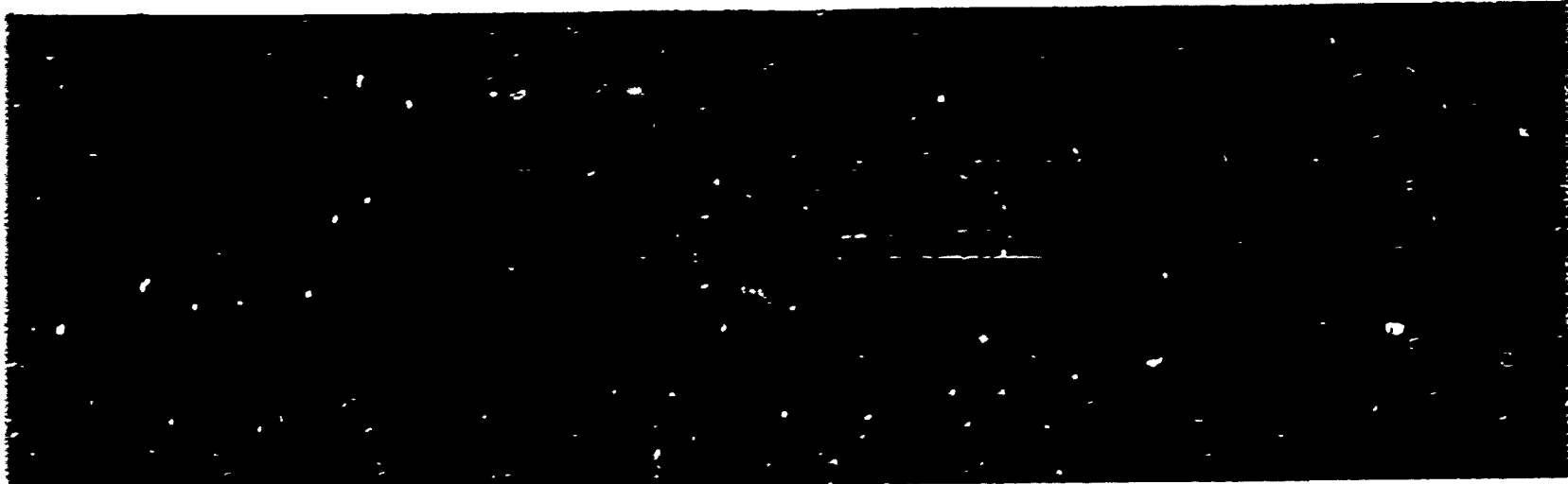
DESCRIPTIVE NOTE
27p.

DESCRIPTORS
*Bibliographies; *Science Education; *Science Education History; *Science History; *Socioeconomic Influences; Biology; College Science; Educational Research; Elementary School Science; International Education; Instruction; Physical Sciences; Secondary School Science; Scientific Literacy; Scientific Enterprise; Teacher Education

IDENTIFIERS

ABSTRACT
This is the seventh in the third series of general bibliographies developed to disseminate information on documents analyzed at the ERIC Information Analysis Center for Science Education. Reported are some 87 citations of selected documents in the areas of (1) science and society, (2) the history of science education, (3) science history, and (4) general studies and surveys. The documents included represent research reports, research reviews, manuals, textbooks, and other types. Citations are listed in alphabetical order by author and indicate sources, availability, and major ideas of the document. This bibliography updates, but does not replace, general bibliography 7 (ED 021 771) and general bibliography 17 (ED 026 283) produced earlier by this Center. (RH)

ED 032 445



**GENERAL BIBLIOGRAPHY SERIES
BIBLIOGRAPHY 27**

**SCIENCE AND SOCIETY
HISTORY OF SCIENCE EDUCATION
SCIENCE HISTORY, GENERAL STUDIES AND SURVEYS**

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE
PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS
STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION
POSITION OR POLICY.

SEIAC/SCIENCE EDUCATION INFORMATION ANALYSIS CENTER

... an information center to organize and disseminate information and materials on science education to teachers, administrators, supervisors, researchers, and the public. A joint project of The Ohio State University and the Educational Resources Information Center of USOE.

A 000 409

SCIENCE EDUCATION INFORMATION REPORT

**GENERAL BIBLIOGRAPHY SERIES
BIBLIOGRAPHY 27**

**SCIENCE AND SOCIETY
HISTORY OF SCIENCE EDUCATION
SCIENCE HISTORY, GENERAL STUDIES AND SURVEYS**

**ERIC Information Analysis Center
for Science Education
1460 West Lane Avenue
Columbus, Ohio 43210**

July, 1969

BIBLIOGRAPHY 27

	Page
Table of Contents	
A. Science and Society	1
B. History of Science Education	6
C. Science History	7
D. General Studies and Surveys	10
E. Author Index	20
F. Unauthored Index	21

SCIENCE EDUCATION INFORMATION REPORTS

The Science Education Information Reports are being developed to disseminate information concerning documents analyzed at the ERIC Information Analysis Center for Science Education. The Reports include five types of publications. General Bibliographies are being issued to announce most documents processed by the Information Analysis Center for Science Education. These bibliographies are categorized by topics and indicate the availability of the document and the major ideas included in the document. Special Bibliographies are being developed to announce availability of documents in selected interest areas. These bibliographies will list most significant documents that have been published in the interest area. Guides to Resource Literature for Science Teachers are bibliographies that identify references for the professional growth of teachers at all levels of science teaching. This series will include six separate publications. State-of-the-Art Papers will be issued periodically to indicate implications of research for science teaching. Research Reviews will be issued to analyze and synthesize research related to science education over a period of several years.

The Science Education Information Reports will be announced in the SEIAC Newsletter as they become available.

GENERAL BIBLIOGRAPHIES

The General Bibliographies are being developed to announce the documents acquired and processed by the ERIC Information Analysis Center for Science Education. The bibliographies will focus on general topics. This bibliography announces most documents related to the topic that were included in the third 2,000 documents processed by this Center. It supplements General Bibliography 7 and 17. Additional supplements will be issued as documents are processed.

USING BIBLIOGRAPHIC CITATIONS

All documents are listed by similar bibliographic citations. A sample citation is explained for your convenience. You will find it helpful to study the explanation of the sample citation before using this bibliography.

SAMPLE OF BIBLIOGRAPHIC CITATION

- (1) SE 004 904 (2) 3 (3) 10 31 15
(4) HELGESON, STANLEY L.
(5) LESSON PLANS AND TESTS OF KNOWLEDGE, COMPREHENSION, AND APPLICATION FOR
INSTRUCTION IN CONCEPTS OF FORCE, GRADES 2-6
(6) UNIVERSITY OF WISCONSIN, MADISON, RESEARCH AND DEVELOPMENT CENTER
(7) EDRS
(8) ED 020 907 MF \$0.25 HC \$2.35
(9) 03 00 68 (10) 45
(11) *ELEMENTARY SCHOOL SCIENCE, *FORCES (PHYSICAL), *INSTRUCTION, *PHYSICS, *TEACHING
GUIDES, ACADEMIC ACHIEVEMENT, COGNITIVE PROCESSES, CONCEPT FORMATION, EVALUATION,
LEARNING, PHYSICAL SCIENCES, TESTS, RESEARCH REPORTS
-

EXPLANATION OF BIBLIOGRAPHIC CITATION

- (1) SE 004 904

This is the Science Education Center's identification number for the document. It serves as the name for the document and provides a way of locating the material.

- (2) 3

This field indicates the level of processing of the document.

- 1--cataloged and indexed
- 2--cataloged, indexed, and annotated or abstracted
- 3--announced in Research in Education

- (3) 10 31 15

Field three is a code for developing bibliographies. By using this code several kinds of bibliographies can be structured by retrieval specialists or by computer programs.

- (4) HELGESON, STANLEY L.

The principal author, editor, or organization associated with the writing of the document is listed.

- (5) LESSON PLANS AND TESTS OF KNOWLEDGE, COMPREHENSION, AND APPLICATION FOR
INSTRUCTION IN CONCEPTS OF FORCE, GRADES 2-6

Title of document.

(6) UNIVERSITY OF WISCONSIN, MADISON, RESEARCH AND DEVELOPMENT CENTER

This indicates where the document was obtained by the Center.

(7) EDRS

Field seven indicates the source of the document. If the document is available from the ERIC Document Reproduction Service (EDRS) it can be ordered.

(8) ED 020 907 MF \$0.25 HC \$2.35

If a document is announced in Research in Education, the ED number of the document is indicated in this space. If the document is available from EDRS the price of the document is also indicated in this field. MF indicates microfiche and HC indicates hardcopy. This document would cost \$0.25 in microfiche or \$2.35 in hardcopy.

(9) 03 00 68

This field designates the publication date of the document (March, 1968). The first set of two numerics represents the month; the second, the day of the month; and the third, the year. In most cases the date is obtained from the document. In a few cases, when no date of publication is on the document, the date is estimated based on the best information available in the document.

(10) 45

Field ten identifies the number of pages in the document. This document contains 45 pages. Use of this field will provide information concerning the length of the document.

(11) *ELEMENTARY SCHOOL SCIENCE, *FORCES (PHYSICAL), *INSTRUCTION, *PHYSICS, *TEACHING GUIDES, ACADEMIC ACHIEVEMENT, COGNITIVE PROCESSES, CONCEPT FORMATION, EVALUATION, LEARNING, PHYSICAL SCIENCES, TESTS, RESEARCH REPORTS

This field provides an indication of the ideas included in the document. Each term, such as *INSTRUCTION, has been selected by an information analyst because the term is important for the identification of the document. Terms marked with an asterisk represent primary ideas in the document; the other terms represent ideas of lesser importance. You can use this information to narrow the number of documents you want to review.

A. SCIENCE AND SOCIETY

1. SE 004 626 3 20 54 19
ALDEN, JOHN D.
CRITICAL INTERFACES FOR ENGINEERS AND SCIENTISTS
ENGINEERING MANPOWER COMMISSION, NEW YORK
EDRS
ED 022 672 MF \$0.25 HC \$1.60
07 00 67 30
*COLLEGE SCIENCE, *ENGINEERING EDUCATION, *SCIENCE EDUCATION, *SOCIOECONOMIC
INFLUENCES, ADULT EDUCATION, ENGINEERS, INDUSTRY, SPEECHES, SCIENTISTS, TECHNOLOGY
2. SE 004 822 1 20 81 37
BLOUGH, GLENN
YOU AND YOUR CHILD AND SCIENCE
NATIONAL SCIENCE TEACHERS ASSOCIATION, WASHINGTON, D.C.
63 28
*ELEMENTARY SCHOOL SCIENCE, *EDUCATIONAL OBJECTIVES, *PARENT-CHILD RELATIONSHIP,
*PARENT-SCHOOL RELATIONSHIP, *SCIENCE EDUCATION, FIELD TRIPS, SCIENCE PROGRAMS,
MOTIVATION, PARENT RESPONSIBILITY, SCIENCES
3. SE 004 354 3 20 85 03
BRAINARD, ROBERT W.
SCIENCE POLICY BULLETIN NUMBER 1
BATTELLE MEMORIAL INSTITUTE, COLUMBUS LABORATORIES, COLUMBUS, OHIO
EDRS
ED 017 479 MF \$0.25 HC \$1.85
10 00 67 35
*BIBLIOGRAPHIES, *ENGINEERING, *FINANCIAL SUPPORT, *HIGHER EDUCATION, *POLICY
FORMATION, *RESEARCH, *SCIENTIFIC RESEARCH, *SCIENCES, *SOCIAL CHANGE, *TECHNOLOGY,
ADULT EDUCATION, ANNOTATED BIBLIOGRAPHIES, CONSERVATION EDUCATION, DEVELOPING
NATIONS, GRANTS, INTERNATIONAL PROGRAMS, INTERAGENCY COOPERATION, MANAGEMENT,
NATURAL RESOURCES, PUBLIC HEALTH, SCIENCE AND SOCIETY
4. SE 004 353 3 20 85 03
BRAINARD, ROBERT W.
SCIENCE POLICY BULLETIN NUMBER 2
BATTELLE MEMORIAL INSTITUTE, COLUMBUS LABORATORIES, COLUMBUS, OHIO
EDRS
ED 017 478 MF \$0.25 HC \$2.45
12 00 67 47
*BIBLIOGRAPHIES, *ENGINEERING, *FINANCIAL SUPPORT, *HIGHER EDUCATION, *POLICY
FORMATION, *RESEARCH, *SCIENCES, *SOCIAL CHANGE, *TECHNOLOGY, ADULT EDUCATION,
ANNOTATED BIBLIOGRAPHIES, CONSERVATION EDUCATION, GRANTS, INTERNATIONAL PROGRAMS,
INTERAGENCY COOPERATION, MANAGEMENT, NATURAL RESOURCES, SCIENTIFIC RESEARCH,
SCIENTIFIC MANPOWER

5. SE 004 352 3 20 85 03
 BRAINARD, ROBERT W.
 SCIENCE POLICY BULLETIN NUMBER 3
 BATTELLE MEMORIAL INSTITUTE, COLUMBUS LABORATORIES, COLUMBUS, OHIO
 EDRS
 ED 017 477 MF \$0.25 HC \$2.70
 02 00 68 52
 *BIBLIOGRAPHIES, *ENGINEERING, *HIGHER EDUCATION, *POLICY FORMATION, *RESEARCH,
 *SCIENCES, *TECHNOLOGY, ANNOTATED BIBLIOGRAPHIES, CONSERVATION EDUCATION, FINANCIAL
 SUPPORT, INDUSTRY, INTERAGENCY COOPERATION, MANAGEMENT, NATURAL RESOURCES, SOCIAL
 SCIENCES, SCIENTIFIC MANPOWER, SCIENTIFIC RESEARCH
6. SE 004 912 3 20 85 03
 BRAINARD, ROBERT W.
 SCIENCE POLICY BULLETIN NUMBER 5
 BATTELLE MEMORIAL INSTITUTE, COLUMBUS, OHIO
 EDRS
 ED 020 914 MF \$0.25 HC \$2.50
 06 00 68 48
 *BIBLIOGRAPHIES, *RESEARCH, *SCIENCES, *TECHNOLOGY, ANNOTATED BIBLIOGRAPHIES,
 CONFERENCE REPORTS, ENGINEERING, FEDERAL AID, FEDERAL GOVERNMENT, FINANCIAL SUPPORT,
 FOREIGN COUNTRIES, HIGHER EDUCATION, INDUSTRY, SCIENTIFIC MANPOWER, SOCIAL SCIENCES,
 SOCIOECONOMIC INFLUENCES
7. SE 005 422 3 20 85 03
 BRAINARD, ROBERT W.
 SCIENCE POLICY BULLETIN NUMBER 6
 BATTELLE MEMORIAL INSTITUTE, COLUMBUS, OHIO
 EDRS
 ED 023 605 MF \$0.25 HC \$2.60
 08 00 68 50
 *BIBLIOGRAPHIES, *RESEARCH, *SCIENCES, *TECHNOLOGY, ANNOTATED BIBLIOGRAPHIES,
 FOREIGN COUNTRIES, CONFERENCE REPORTS, ENGINEERING, FEDERAL AID, FEDERAL GOVERNMENT,
 FINANCIAL SUPPORT, HIGHER EDUCATION, INDUSTRY, SCIENTIFIC MANPOWER, SOCIAL SCIENCES,
 SOCIOECONOMIC INFLUENCES
8. SE 005 848 3 20 85 03
 BRAINARD, ROBERT W.
 SCIENCE POLICY BULLETIN NUMBER 7
 BATTELLE MEMORIAL INSTITUTE, COLUMBUS, OHIO
 EDRS
 ED 024 612 MF \$0.50 HC \$3.55
 10 00 68 69
 *ANNOTATED BIBLIOGRAPHIES, *ENGINEERING, *SCIENTIFIC RESEARCH, *SCIENCES, *TECHNOLOGY,
 BIBLIOGRAPHIES, CONFERENCE REPORTS, FEDERAL LEGISLATION, FINANCIAL SUPPORT,
 GOVERNMENT ROLE, HIGHER EDUCATION, INTERNATIONAL PROGRAMS, NATURAL RESOURCES,
 SOCIOECONOMIC INFLUENCES

9. SE 004 760 1 20 86 19
 BRONOWSKI, J.
 SCIENCE IN THE NEW HUMANISM
 THE SCIENCE TEACHER
 05 00 68 6
 *PHILOSOPHY, *SCIENTIFIC ATTITUDES, *SCIENCES, *SCIENTIFIC METHOD, ETHICS, LOGIC,
 SCIENCE HISTORY, SPEECHES, *VALUES, DAMON LECTURE, NATIONAL SCIENCE TEACHERS
 ASSOCIATION CONVENTION
10. SE 005 940 1 20 23 19
 KIEFFER, WILLIAM F.
 CHEMISTRY, CURIOSITY, AND CULTURE
 JOURNAL OF CHEMICAL EDUCATION
 09 00 68 6
 *COLLEGE SCIENCE, *CHEMISTRY, *CURRICULUM, *SPEECHES, *SCIENCE COURSES, TECHNOLOGY
11. SE 004 690 1 20 32 20
 KLOPPER, LEOPOLD E.
 TEACHING PHYSICS FOR THE 21ST CENTURY - SCIENCE AND ITS CULTURAL CONTEXT
 SCHOOL SCIENCE AND MATHEMATICS
 05 00 68 8
 *CULTURAL INTERRELATIONSHIPS, *CURRICULUM DEVELOPMENT, *EDUCATIONAL OBJECTIVES,
 *PHYSICS, *SECONDARY SCHOOL SCIENCE, PHYSICAL SCIENCES, SOCIOECONOMIC INFLUENCE,
 HARVARD PROJECT PHYSICS, IOWA SCIENCE AND CULTURE STUDY
12. SE 004 997 3 20 06 06
 LEEDS, MORTON
 WASHINGTON COLLOQUIUM ON SCIENCE AND SOCIETY, SECOND SERIES (HELD AT GEORGETOWN
 UNIVERSITY, WASHINGTON, D.C. 1965-1966)
 MONO BOOK CORPORATION, 2315 HOLLINS STREET, BALTIMORE, MARYLAND
 ED 023 586 NOT AVAILABLE FROM EDRS
 67 201
 *ECONOMIC DEVELOPMENT, *SOCIAL PROBLEMS, *SCIENTIFIC ENTERPRISE, *TECHNOLOGICAL
 ADVANCEMENT, CONFERENCE REPORTS, COMMUNICATION PROBLEMS, INTERNATIONAL EDUCATION,
 SOCIOECONOMIC PROBLEMS, SCIENTIFIC RESEARCH, *POLICY FORMATION, WASHINGTON
 COLLOQUIUM ON SCIENCE AND SOCIETY, NATIONAL SCIENCE FOUNDATION, 1965
13. SE 005 926 1 20 86 20
 O'HEARN, GEORGE T.
 SCIENCE, SOCIETY AND THE SCHOOL
 SCHOOL SCIENCE AND MATHEMATICS
 12 00 68 8
 *CURRICULUM, *SCIENTIFIC LITERACY, *SCIENTIFIC ENTERPRISE, *SCIENCE EDUCATION,
 *SOCIOECONOMIC INFLUENCES, NATIONAL SCIENCE FOUNDATION, CONGRESSIONAL COMMITTEE
 ON SCIENCE AND ASTRONAUTICS, BIOLOGICAL SCIENCES STUDY COMMITTEE, PHYSICAL
 SCIENCE STUDY COMMITTEE, SCIENCE A PROCESS APPROACH

14. SE 005 708 1 20 86 20
 OPPENHEIMER, J. ROBERT
 SOME REFLECTIONS ON SCIENCE AND CULTURE - PARTS I AND II
 JOURNAL OF SECONDARY EDUCATION
 03 00 66 14
 *CULTURAL CHANGES, *SOCIAL IMPLICATIONS, *SCIENTIFIC ENTERPRISE, *SOCIOECONOMIC
 INFLUENCES, CULTURAL FACTORS, SOCIAL VALUES, SOCIAL INFLUENCES, SCIENTIFIC
 DISCOVERIES, SCIENTIFIC LITERACY, TECHNOLOGICAL DEVELOPMENT, TECHNOLOGY
15. SE 004 373 3 20 86 14
 PERLMAN, JACOB
 CURRENT PROJECTS ON ECONOMIC AND SOCIAL IMPLICATIONS OF SCIENCE AND TECHNOLOGY
 1964
 NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
 GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C.
 EDRS
 ED 018 379 MF \$0.75 HARD COPY NOT AVAILABLE
 06 00 65 189
 *DIRECTORIES, *NATURAL SCIENCES, *RESEARCH PROJECTS, *SOCIOECONOMIC INFLUENCES,
 *SCIENTIFIC MANPOWER, ADMINISTRATIVE ORGANIZATION, AGRICULTURE, CULTURAL FACTORS,
 ECONOMIC FACTORS, ECONOMIC DEVELOPMENT, HISTORY, INDUSTRY, INTERNATIONAL PROGRAMS,
 MANPOWER NEEDS, MANAGEMENT, PSYCHOLOGY, TECHNOLOGICAL ADVANCEMENT, TECHNOLOGY,
 SOCIOLOGY, OFFICE OF ECONOMIC AND MANPOWER STUDIES
16. SE 004 243 2 20 86 02
 PRIOR, MOODY E.
 SCIENCE AND THE HUMANITIES
 NORTHWESTERN UNIVERSITY PRESS, EVANSTON, ILLINOIS
 62 124
 *BIBLIOGRAPHIES, *ESSAYS, *SCIENCE EDUCATION, *SCIENCES, EDUCATIONAL OBJECTIVES,
 HUMANITIES, SCIENCE HISTORY, SOCIAL INFLUENCES
17. SE 004 996 3 20 06 06
 SEYMOUR, S. FREDERICK
 WASHINGTON COLLOQUIUM ON SCIENCE AND SOCIETY, FIRST SERIES (HELD AT THE AMERICAN
 UNIVERSITY, WASHINGTON, D.C. 1964-1965)
 MONO BOOK CORPORATION, 2315 HOLLINS STREET, BALTIMORE, MARYLAND
 ED 023 585 NOT AVAILABLE FROM EDRS
 12 00 67 180
 *POLICY FORMATION, *SOCIAL PROBLEMS, *SCIENTIFIC ENTERPRISE, *TECHNOLOGICAL
 ADVANCEMENT, CONFERENCE REPORTS, INTERNATIONAL EDUCATION, SOCIOECONOMIC PROBLEMS,
 SCIENTISTS, SCIENTIFIC LITERACY, SCIENCE EDUCATION, SCIENTIFIC ATTITUDES,
 TECHNOLOGY, WASHINGTON COLLOQUIUM ON SCIENCE AND SOCIETY, NATIONAL SCIENCE FOUNDATION,
 1964, 1965
18. SE 004 160 2 20 86 19
 WHITEHEAD, ALFRED NORTH
 SCIENCE AND THE MODERN WORLD
 MACMILLAN COMPANY, NEW YORK, NEW YORK
 53 212
 *HISTORY, *MATHEMATICS, *NATURAL SCIENCES, *SCIENCE AND SOCIETY, LECTURE,
 PHILOSOPHY, RELIGION, LOWELL LECTURES, 1925

19. SE 004 877 3 20 46 17
 WITTMER, PAUL WILLIAM
 THE SECULARIZATION OF GEOLOGY TEXTBOOKS IN THE UNITED STATES IN THE NINETEENTH CENTURY
 NEW YORK UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 ED 022 684 NOT AVAILABLE FROM EDRS
 67 372
 *GEOLOGY, *INSTRUCTIONAL MATERIALS, *SCIENCE HISTORY, DOCTORAL THESES, EARTH SCIENCE, SCIENCES, TEXTBOOKS, RESEARCH REPORTS, KING JAMES VERSION OF THE HOLY BIBLE, BOOK OF GENESIS, UNITED STATES, NEW YORK UNIVERSITY
20. SE 005 851 1 20 36 17
 ZALTMAN, GERALD
 SCIENTIFIC RECOGNITION AND COMMUNICATION BEHAVIOR IN HIGH ENERGY PHYSICS
 JOHNS HOPKINS UNIVERSITY, BALTIMORE, MARYLAND
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 68 179
 *ATTITUDES, *COMMUNICATIONS, *PHYSICISTS, *SOCIAL STRUCTURE, DOCTORAL THESES, NUCLEAR PHYSICS, PHYSICS, RESEARCH REPORTS, SOCIOECONOMIC INFLUENCES, 1968, AMERICAN INSTITUTE OF PHYSICS, NATIONAL SCIENCE FOUNDATION
21. SE 004 709 1 20 36 31
 COMMITTEE ON PHYSICS AND SOCIETY FORMED BY AMERICAN INSTITUTE OF PHYSICS
 THE PHYSICS TEACHER
 05 00 68 1
 *DEVELOPMENT REPORT, *INDUSTRY, *PROFESSIONAL ASSOCIATIONS, *PHYSICS, *SOCIOECONOMIC INFLUENCES, *TECHNOLOGY, COMMITTEES
22. SE 005 045 3 20 95 03
 SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 7, SCIENCE AND SOCIETY, HISTORY OF SCIENCE EDUCATION, SCIENCE HISTORY, GENERAL STUDIES AND SURVEYS
 ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO
 EDRS
 ED 021 771 MF \$0.25 HC \$1.55
 05 00 68 29
 *BIBLIOGRAPHIES, *SCIENCE EDUCATION HISTORY, *SCIENCE HISTORY, BIOLOGY, BIOGRAPHIES, COLLEGE SCIENCE, CHEMISTRY, DOCTORAL THESES, EDUCATIONAL RESEARCH, ELEMENTARY SCHOOL SCIENCE, EARTH SCIENCE, INTERNATIONAL EDUCATION, PHYSICS, PHYSICAL SCIENCES, SECONDARY SCHOOL SCIENCE, SOCIOECONOMIC INFLUENCES, STUDENT ATTITUDES, SCIENTIFIC LITERACY, SCIENTIFIC ENTERPRISE, TEACHER EDUCATORS, TEACHER EDUCATION, STUDENT ENROLLMENTS, UNESCO

B. HISTORY OF SCIENCE EDUCATION

1. SE 004 677 1 21 86 20
ARLT, GUSTAVE
WHY DO WE NEED ANOTHER DEGREE?
BIOSCIENCE
03 00 68 3
*EDUCATIONAL PROBLEMS, *GRADUATE STUDY, *SCIENCE EDUCATION HISTORY, BACHELORS DEGREES, DOCTORAL DEGREES, EDUCATIONAL PROGRAMS, HIGHER EDUCATION, MASTERS DEGREES
2. SE 004 771 1 21 12 29
GILLESPIE, A. S.
PIONEERS OF SCHOOL BIOLOGY TEACHING
BIOLOGY OF HUMAN AFFAIRS
66 8
*BIOLOGY, *EDUCATIONAL PROGRAMS, *INTERNATIONAL EDUCATION, *SECONDARY SCHOOL SCIENCE, *SCIENCE EDUCATION HISTORY, COLLEGE SCIENCE, EDUCATIONAL CHANGE, INSTRUCTION, PROGRAM DESCRIPTIONS, ENGLAND, SCOTLAND
3. SE 004 937 3 21 36 17
GOLDBERG, STANLEY
THE EFFECTS OF NATIONAL SCIENTIFIC STYLE ON THE UNDERSTANDING OF SCIENTIFIC INNOVATION: SPECIAL RELATIVITY, A CASE HISTORY
ANTIOCH COLLEGE, YELLOW SPRINGS, OHIO
EDRS
ED 020 918 MF \$0.75 HC \$7.50
06 00 68 148
*CHANGE AGENTS, *PHYSICS, *RELATIVITY, *SCIENTIFIC ENTERPRISE, EDUCATIONAL HISTORY, INNOVATION, SCIENCE HISTORY, SCIENCE EDUCATION HISTORY, SCIENCE EDUCATION, RESEARCH REPORTS, GERMANY, FRANCE, ENGLAND, UNITED STATES, EINSTEIN
4. SE 005 617 1 21 95 31
STOLLBERG, ROBERT; AND OTHERS
THE NATIONAL SCIENCE TEACHERS ASSOCIATION SILVER YEAR REVIEW
THE SCIENCE TEACHER
10 00 68 8
*HISTORICAL REVIEWS, *OBJECTIVES, *PROFESSIONAL ASSOCIATIONS, *PHILOSOPHY, *SCIENCE EDUCATION HISTORY, INSTRUCTIONAL MATERIALS, SCIENCE FACILITIES, SCIENCE MATERIALS, NATIONAL SCIENCE TEACHERS ASSOCIATION
5. SE 004 792 1 21 35 19
WHITE, HARVEY E.
MY REFLECTIONS ON THE TEACHING OF PHYSICS
AMERICAN JOURNAL OF PHYSICS
05 00 68 6
*COLLEGE SCIENCE, *PHYSICS, *SCIENCE EDUCATION, PHYSICS TEACHERS, SECONDARY SCHOOL SCIENCE, *SCIENCE EDUCATION HISTORY

C. SCIENCE HISTORY

1. SE 005 107 1 23 36 17
BUCHANAN, BRUCE GARDNER
LOGICS OF SCIENTIFIC DISCOVERY
MICHIGAN STATE UNIVERSITY
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
66 217
*DISCOVERY PROCESSES, *LOGIC, *PHILOSOPHY, *RESEARCH METHODOLOGY, *SCIENTIFIC
METHODOLOGY, DOCTORAL THESES
2. SE 005 112 1 23 86 17
CHINN, EWING Y.
A CRITICAL APPRAISAL OF THE PREVALENT MODEL OF SCIENTIFIC EXPLORATION
UNIVERSITY OF SOUTHERN CALIFORNIA
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
66 277
*LOGIC, *NATURAL SCIENCES, *PHILOSOPHY, *SCIENTIFIC METHODOLOGY, DOCTORAL
THESES, DEDUCTIVE METHODS, PREDICTION, STATISTICS, CARL HEMPEL
3. SE 005 117 1 23 86 17
DROPPERS, GARRETT
THE QUESTIONS DE SPERA OF NICOLE ORESME - LATIN TEXT WITH ENGLISH TRANSLATION,
COMMENTARY AND VARIANTS
UNIVERSITY OF WISCONSIN
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
66 624
*PHYSICAL SCIENCES, *SCIENCE HISTORY, *SCIENTIFIC CONCEPTS, *TRANSLATION,
ASTRONOMY, DOCTORAL THESES, PHYSICS, RESEARCH REPORTS
4. SE 005 762 1 23 56 17
ELKANA, YEHUDA
THE EMERGENCE OF THE ENERGY CONCEPT
BRANDEIS UNIVERSITY
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
68 326
*ENERGY, *PHYSICAL SCIENCES, *SCIENCE HISTORY, *SCIENTIFIC PRINCIPLES, DOCTORAL
THESES, HERMANN VON HELMOLTZ
5. SE 004 937 3 23 36 17
GOLDBERG, STANLEY
THE EFFECTS OF NATIONAL SCIENTIFIC STYLE ON THE UNDERSTANDING OF SCIENTIFIC
INNOVATION: SPECIAL RELATIVITY, A CASE HISTORY
ANTIOCH COLLEGE, YELLOW SPRINGS, OHIO
EDRS
ED 020 918 MF \$0.75 HC \$7.50
06 00 68 148
*CHANGE AGENTS, *PHYSICS, *RELATIVITY, *SCIENTIFIC ENTERPRISE, EDUCATIONAL HISTORY,
INNOVATION, SCIENCE HISTORY, SCIENCE EDUCATION HISTORY, SCIENCE EDUCATION, RESEARCH
REPORTS, GERMANY, FRANCE, ENGLAND, UNITED STATES, EINSTEIN

6. SE 005 140 1 23 96 17
 LAWLESS, BROTZER DESALES
 A STUDY OF BASIC SCIENTIFIC RESEARCH IN THE LIFE SCIENCES UNDERTAKEN DURING
 WORLD WAR II IN ENGLAND AND IN THE UNITED STATES
 NEW YORK UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 66 229
 *BIOLOGICAL SCIENCES, *RESEARCH, *SCIENTIFIC RESEARCH, DOCTORAL THESES, PHYSICAL
 SCIENCES, RESEARCH REVIEWS, ENGLAND, UNITED STATES, NOBEL PRIZE, WORLD WAR II, 1966
7. SE 005 151 1 23 86 17
 MUNSON, JAMES RONALD
 THE SCIENCE OF SCIENCE - A CRITICAL EXAMINATION OF JOHN STUART MILL'S PHILOSOPHY
 OF SCIENCE
 COLUMBIA UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 67 312
 *PHILOSOPHERS, *PHILOSOPHY, *SCIENTIFIC METHODOLOGY, DOCTORAL THESES, *NATURAL
 SCIENCES, SOCIAL SCIENCES
8. SE 005 984 1 23 86 17
 OSLER, MARGARET JO
 JOHN LOCKE AND SOME PHILOSOPHICAL PROBLEMS IN THE SCIENCE OF BOYLE AND NEWTON
 INDIANA UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 68 208
 *PHYSICAL SCIENCES, *PHILOSOPHY, *SCIENTIFIC ENTERPRISE, *SCIENCE HISTORY,
 DOCTORAL THESES, SCIENCE EDUCATION, JOHN LOCKE, ROBERT BOYLE, ISSAC NEWTON
9. SE 005 441 1 23 33 21
 PARK, DAVID
 RESOURCE LETTER SP-1 ON SYMMETRY IN PHYSICS
 AMERICAN JOURNAL OF PHYSICS
 07 00 68 8
 *BIBLIOGRAPHIES, *COLLEGE SCIENCE, *SYMMETRY, *SCIENCE HISTORY, NATIONAL
 SCIENCE FOUNDATION
10. SE 005 157 1 23 86 17
 PEARL, PHILIP DAVID
 WILLIAM WHEWELL'S CONCEPTION OF THE PHILOSOPHY OF SCIENCE
 NEW SCHOOL FOR SOCIAL RESEARCH
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 66 273
 *PHILOSOPHY, *SCIENCES, *SCIENCE HISTORY, DOCTORAL THESES, LOGIC
11. SE 005 986 1 23 86 17
 POLINSKY, GERALD RUDMAN
 BENJAMIN FRANKLIN: SCIENTIST-INVENTOR
 ST. LOUIS UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 68 410
 *SCIENTISTS, *SCIENCE HISTORY, DOCTORAL THESES, PHYSICAL SCIENCES, RESEARCH
 REPORTS, SCIENTIFIC ENTERPRISE, BENJAMIN FRANKLIN, AMERICAN PHILOSOPHICAL SOCIETY

12. SE 005 167 1 23 86 17
 SCHAGRIN, MORTON LOUIS
 WILLIAM WHEWELL - PHILOSOPHER OF SCIENCE
 UNIVERSITY OF CALIFORNIA, BERKELEY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 66 166
 *NATURAL SCIENCES, *PHILOSOPHY, DOCTORAL THESES, PHILOSOPHERS, PROBABILITY,
 SEMANTICS, SCIENTIFIC TERMINOLOGY, SCIENTIFIC LAWS, WILLIAM WHEWELL
13. SE 004 070 2 23 95 17
 STANTON, WILLIAM RAGAN
 THE LEOPARD'S SPOTS - SCIENCE AND THE AMERICAN IDEA OF EQUALITY - 1815-1860
 BROWN UNIVERSITY, RHODE ISLAND
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 56 334
 *BIOLOGY, *EVOLUTION, *SCIENCE HISTORY, DARWINISM, SAMUEL MORTON, JOHN BACHMAN
14. SE 005 761 1 23 56 17
 STUEWER, ROGER HARRY
 THE HISTORY OF THE COMPTON EFFECT
 UNIVERSITY OF WISCONSIN, MADISON
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 68 586
 *PHYSICS, *PHYSICAL SCIENCES, *QUANTUM MECHANICS, *SCIENCE HISTORY, DOCTORAL
 THESES, RESEARCH METHODOLOGY, RADIATION, ARTHUR HOLLY COMPTON
15. SE 004 877 3 23 46 17
 WITTMER, PAUL WILLIAM
 THE SECULARIZATION OF GEOLOGY TEXTBOOKS IN THE UNITED STATES IN THE NINETEENTH
 CENTURY
 NEW YORK UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 ED 022 684 NOT AVAILABLE FROM EDRS
 67 372
 *GEOLOGY, *INSTRUCTIONAL MATERIALS, *SCIENCE HISTORY, DOCTORAL THESES, EARTH
 SCIENCE, SCIENCES, TEXTBOOKS, RESEARCH REPORTS, KING JAMES VERSION OF THE HOLY
 BIBLE, BOOK OF GENESIS, UNITED STATES, NEW YORK UNIVERSITY

5. SE 004 118 3 22 33 14
 AMERICAN INSTITUTE OF PHYSICS
 DIRECTORY OF PHYSICS AND ASTRONOMY FACULTIES 1967-1968, UNITED STATES - CANADA -
 MEXICO
 AMERICAN INSTITUTE OF PHYSICS, NEW YORK, NEW YORK
 ED 018 368 NOT AVAILABLE FROM EDRS
 68 201
 *ASTRONOMY, *COLLEGE SCIENCE, *COLLEGES, *DIRECTORIES, *FACULTY, *PHYSICS,
 *UNIVERSITIES, COLLEGE TEACHERS, PHYSICAL SCIENCES, TEACHERS, UNITED STATES,
 NATIONAL SCIENCE FOUNDATION, AMERICAN ASSOCIATION OF PHYSICS TEACHERS,
 AMERICAN INSTITUTE OF PHYSICS, CANADA, MEXICO
6. SE 005 397 1 22 86 37
 AMERICAN INSTITUTE OF PHYSICS
 PHYSICS AS A CAREER
 AMERICAN INSTITUTE OF PHYSICS
 67 24
 *CAREERS, *PHYSICS, *SCIENCE CAREERS, BIOPHYSICS, GEOPHYSICS, NUCLEAR PHYSICS,
 OPTICS, TEACHING, AIP, NATIONAL SCIENCE FOUNDATION
7. SE 005 102 1 22 86 17
 BAILS, JERRY GWIN
 A STUDY OF THE FUNCTIONAL RELATIONSHIPS BETWEEN LOGIC AND PRAGMATICS IN POLEMIC
 DISCOURSE
 UNIVERSITY OF MISSOURI
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 60 186
 *LOGIC, *LANGUAGE, *SCIENCES, DOCTORAL THESES, INQUIRY, PHILOSOPHY, RESEARCH
 REPORTS, SEMANTICS, 1960
8. SE 004 579 1 22 84 18
 BLUM, ZAHAVA D.; ROSSI, PETER H.
 SOCIAL CLASS RESEARCH AND IMAGES OF THE POOR, A BIBLIOGRAPHIC REVIEW
 JOHNS HOPKINS UNIVERSITY, CENTER FOR THE STUDY OF SOCIAL ORGANIZATION OF SCHOOLS,
 BALTIMORE, MARYLAND
 03 00 68 94
 *ACHIEVEMENT, *BIBLIOGRAPHIES, *SOCIOECONOMIC STATUS, ATTITUDES, DELINQUENCY
 CAUSES, FAMILY ATTITUDES, NEGRO EDUCATION, *PERSONALITY DEVELOPMENT, SOCIAL
 ATTITUDES, SOCIAL VALUE
9. SE 005 528 1 22 92 37
 BOERCKER, FRED
 PRELIMINARY DATA ON ENROLLMENTS IN SCIENCE AND MATHEMATICS IN UNITED STATES
 PUBLIC HIGH SCHOOLS, 1964-65
 NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C.
 11 00 66 2
 *SECONDARY SCHOOL SCIENCE, *STUDENT ENROLLMENT, *SCIENCES, BIOLOGY, CHEMISTRY,
 EARTH SCIENCE, GENERAL SCIENCE, MATHEMATICS, PHYSICAL SCIENCES, PHYSICS, SURVEYS,
 UNITED STATES OFFICE OF EDUCATION

10. SE 005 619 1 22 86 06
 BROOKES, WILLIAM J.
 STANYS OUTLINES GOOD WORKING CONDITIONS
 THE SCIENCE TEACHER
 10 00 68 2
 *CONFERENCE REPORTS, *GUIDELINES, *PROFESSIONAL ASSOCIATIONS, *TEACHING CONDITIONS,
 PHYSICAL FACILITIES, SCIENCE EQUIPMENT, TEACHER ROLE, SCIENCE TEACHERS
 ASSOCIATION OF NEW YORK STATE, INC., 1968
11. SE 004 330 1 22 93 25
 BURKHART, BRUCE
 A SURVEY OF JUNIOR COLLEGE CERTIFICATION REQUIREMENTS IN THE UNITED STATES
 THE AMERICAN BIOLOGY TEACHER
 11 00 67 5
 *COLLEGE SCIENCE, *JUNIOR COLLEGES, *TEACHER CERTIFICATION, CERTIFICATION,
 TEACHER QUALIFICATIONS, TEACHER EDUCATION
12. SE 005 427 1 22 15 20
 BUSSER, JOHN H.
 THE BIOTECHNICIAN
 BIOSCIENCE
 05 00 68 3
 *BIOLOGY, *COLLEGE SCIENCE, *SECONDARY SCHOOL SCIENCE, *TECHNICIANS, EDUCATIONAL
 TRAINING, LABORATORY TECHNOLOGY, LABORATORY TECHNIQUES, AAAS COMMISSION ON SCIENCE
 EDUCATION, SCIENCE - A PROCESS APPROACH
13. SE 005 437 1 22 86 31
 CARLETON, ROBERT H.
 THE NATIONAL SCIENCE TEACHERS ASSOCIATION SILVER YEAR REVIEW
 SCIENCE AND CHILDREN
 09 00 68 7
 *PROFESSIONAL ASSOCIATIONS, *SCIENCE TEACHERS, *SCIENCE EDUCATION HISTORY,
 MEMBERSHIP, OPERATING EXPENSES, PUBLICATIONS, SCIENCE EDUCATION, NATIONAL SCIENCE
 TEACHERS ASSOCIATION, SILVER YEAR REVIEW
14. SE 004 846 2 22 95 17
 CASTRO, BARRY
 THE SCIENTIFIC OPPORTUNITIES FOREGONE BECAUSE OF THE SELECTIVE AVAILABILITY OF
 FEDERAL SUPPORT FOR UNIVERSITY-BASED RESEARCH IN PHYSICS (68-6048)
 NEW YORK UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 67 103
 *FEDERAL SUPPORT, *PHYSICS, *RESEARCH, DOCTORAL THESES, FUNDING, 1967

15. SE 004 359 2 22 85 22
 CONANT, JAMES BRYANT
 GENERAL EDUCATION IN A FREE SOCIETY
 HARVARD UNIVERSITY PRESS, CAMBRIDGE, MASSACHUSETTS
 45 267
 *EDUCATIONAL OBJECTIVES, *EDUCATIONAL PHILOSOPHY, *GENERAL EDUCATION, *HIGHER
 EDUCATION, *SECONDARY EDUCATION, ADULT EDUCATION, CURRICULUM, HUMANITIES,
 MATHEMATICS, SCIENCE EDUCATION, SCIENCE AND SOCIETY, SOCIAL STUDIES
16. SE 005 747 1 22 43 17
 DOWNS, GEORGE R.; HENDERSON, BONNIE C.
 STUDENT ENROLLMENT IN EARTH SCIENCE 1967-1968
 GEOTIMES
 11 00 68 2
 *COLLEGE SCIENCE, *CAREER OPPORTUNITIES, *EARTH SCIENCE, *STUDENT ENROLLMENT,
 BACHELORS DEGREES, DOCTORAL DEGREES, GRADUATE STUDY, MASTERS DEGREES, RESEARCH
 REPORTS, UNDERGRADUATE STUDY, AMERICAN GEOLOGICAL INSTITUTE
17. SE 002 269 2 22 83 01
 ENGINEERING MANPOWER COMMISSION
 ANNUAL REPORT, 1966
 ENGINEERING MANPOWER COMMISSION, NEW YORK, NEW YORK
 02 00 67 20
 *ENGINEERING, *SCIENTIFIC MANPOWER, ANNUAL REPORTS, EMPLOYMENT TRENDS,
 PROFESSIONAL ORGANIZATIONS, MANPOWER, SOCIOECONOMIC INFLUENCES, SALARIES
18. SE 004 499 3 22 95 01
 ENGINEERING MANPOWER COMMISSION
 ANNUAL REPORT, 1967
 ENGINEERING MANPOWER COMMISSION, NEW YORK, NEW YORK
 EDRS
 ED 018 395 MF \$0.25 HC \$1.45
 02 00 68 27
 *ANNUAL REPORTS, *ENGINEERING TECHNICIANS, *ENGINEERING, *EMPLOYMENT STATISTICS,
 *ENGINEERS, *SCIENTIFIC MANPOWER, DIRECTORIES, FINANCIAL SUPPORT, PROFESSIONAL
 ASSOCIATIONS, PHYSICAL SCIENCES, SALARIES, SCIENTISTS, ENGINEERING MANPOWER
 COMMISSION, ENGINEERS JOINT COUNCIL
19. SE 004 810 1 22 08 17
 ENTWISLE, DORIS R.; GREENBERGER, ELLEN
 DIFFERENCES IN THE LANGUAGE OF NEGRO AND WHITE GRADE-SCHOOL CHILDREN 1, 2
 JOHNS HOPKINS UNIVERSITY, CENTER FOR THE STUDY OF SOCIAL ORGANIZATION OF SCHOOLS,
 BALTIMORE, MARYLAND
 05 00 68 57
 *ELEMENTARY EDUCATION, *LANGUAGE DEVELOPMENT, CULTURALLY ADVANTAGED, DISADVANTAGED
 YOUTH, NEGRO STUDENTS, RESEARCH REPORTS, SOCIOECONOMIC INFLUENCES, SOCIALLY
 DISADVANTAGED, VERBAL DEVELOPMENT, NATIONAL INSTITUTE OF CHILD HEALTH AND DEVELOPMENT

20. SE 005 749 2 22 86 17
 GLASER, EDWARD M.
 A PILOT STUDY TO DETERMINE THE FEASIBILITY OF PROMOTING THE USE OF A SYSTEMATIZED
 CARE PROGRAM FOR PATIENTS WITH CHRONIC OBSTRUCTURE PULMONARY DISEASE
 HUMAN INTERACTION RESEARCH INSTITUTE, LOS ANGELES, CALIFORNIA
 07 00 68 151
 *DISEASE CONTROL, *HEALTH EDUCATION, *HEALTH PROGRAMS, *RESEARCH REPORTS, MEDICINE,
 PHYSICAL THERAPY, VOCATIONAL REHABILITATION, EMPHYSEMA
21. SE 005 123 1 22 86 17
 GRAHAM, LOREN RAYMOND
 THE TRANSFORMATION OF RUSSIAN SCIENCE AND THE ACADEMY OF SCIENCES, 1927-32
 COLUMBIA UNIVERSITY, NEW YORK, NEW YORK
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 64 399
 *GOVERNMENT ROLE, *ORGANIZATIONAL CHANGE, *PROFESSIONAL ASSOCIATIONS, *SCIENCE
 HISTORY, DOCTORAL THESES, OBJECTIVES, ACADEMY OF SCIENCE, 1964, RUSSIA
22. SE 004 253 1 22 43 20
 HENDERSON, BONNIE C.
 TOP SALARIES IN GEOSCIENCE
 GEOTIMES
 02 00 68 2
 *EARTH SCIENCE, *GEOLOGY, *SCIENTISTS, *SALARIES, BACHELORS DEGREES, DOCTORAL
 DEGREES, FEDERAL GOVERNMENT, INDUSTRY, MASTERS DEGREES
23. SE 005 139 1 22 86 17
 LAUTER, HERMAN ALFRED
 ON REICHENBACH'S ANALYSIS OF SCIENTIFIC LAWS
 UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 67 262
 *LOGIC, *PHILOSOPHY, *SCIENCES, DOCTORAL THESES, RESEARCH REPORTS, SEMANTICS,
 SCIENTIFIC CONCEPTS, HANS REICHENBACH
24. SE 005 140 1 22 96 17
 LAWLESS, BROTHER DESALES
 A STUDY OF BASIC SCIENTIFIC RESEARCH IN THE LIFE SCIENCES UNDERTAKEN DURING
 WORLD WAR II IN ENGLAND AND IN THE UNITED STATES
 NEW YORK UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 66 229
 *BIOLOGICAL SCIENCES, *RESEARCH, *SCIENTIFIC RESEARCH, DOCTORAL THESES, PHYSICAL
 SCIENCES, RESEARCH REVIEWS, ENGLAND, UNITED STATES, NOBEL PRIZE, WORLD WAR II, 1966

25. SE 003 987 1 22 93 17
 NATIONAL SCIENCE FOUNDATION
 SCIENTIFIC MANPOWER BULLETIN
 NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
 03 00 64 4
 *FEDERAL PROGRAMS, *FEDERAL SUPPORT, *MANPOWER DEVELOPMENT, *NATIONAL SURVEYS,
 *PROFESSIONAL OCCUPATIONS, *SCIENTIFIC MANPOWER, *SALARIES, ASTRONOMY, BIOLOGICAL
 SCIENCES, CHEMISTRY, EARTH SCIENCE, MATHEMATICS, METEOROLOGY, PHYSICS,
 PSYCHOLOGY, NATIONAL SCIENCE FOUNDATION, NATIONAL REGISTER OF SCIENTIFIC AND
 TECHNICAL PERSONNEL
26. SE 004 625 2 22 86 01
 NATIONAL SCIENCE FOUNDATION
 ANNUAL REPORT - OFFICE OF ECONOMIC AND MANPOWER STUDIES, FISCAL YEAR 1964
 NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
 64 44
 *PROGRAM ADMINISTRATION, *SCIENCES, *SCIENTIFIC MANPOWER, *SCIENCE EDUCATION,
 *TECHNOLOGY, ADMINISTRATIVE POLICY, HUMAN RESOURCES, OBJECTIVES, RESEARCH
27. SE 004 375 3 22 55 37
 NATIONAL SCIENCE FOUNDATION
 REVIEWS OF DATA ON SCIENCE RESOURCES
 NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
 GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C.
 EDRS
 ED 020 130 MF \$0.25 HC \$1.10
 08 00 66 20
 *EMPLOYMENT STATISTICS, *ENGINEERS, *FINANCIAL SUPPORT, *PHYSICAL SCIENCES,
 *SCIENTISTS, *SCIENTIFIC MANPOWER, *SCIENTIFIC RESEARCH, FEDERAL GOVERNMENT,
 FEDERAL AID, GRADUATE STUDY, MEDICAL SCHCOLS, UNDERGRADUATE STUDY
28. SE 004 371 3 22 86 17
 NATIONAL SCIENCE FOUNDATION
 FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND OTHER SCIENTIFIC ACTIVITIES, FISCAL
 YEARS 1965, 1966, AND 1967
 NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
 GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C.
 EDRS
 ED 018 377 MF \$1.00 HC \$10.25
 66 203
 *FEDERAL AID, *FEDERAL GOVERNMENT, *FEDERAL PROGRAMS, *INFORMATION DISSEMINATION,
 *INFORMATION CENTERS, *RESEARCH, *SCIENTIFIC RESEARCH, PROGRAM COSTS, RESEARCH
 REPORTS, TECHNOLOGICAL ADVANCEMENT, DEPARTMENT OF DEFENSE, NATIONAL AERONAUTICS
 AND SPACE ADMINISTRATION, ATOMIC ENERGY COMMISSION, DEPARTMENT OF HEALTH, EDUCATION,
 AND WELFARE, NATIONAL INSTITUTE OF HEALTH

29. SE 005 155 1 22 94 17
 NOLL, ROBERT FRANCIS
 MATHEMATICS AND SCIENCE REQUIREMENTS FOR DRAFTING TECHNICIANS
 ARIZONA STATE UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 67 277
 *DRAFTING, *MATHEMATICS, *SCIENCE, *TECHNICIANS, DOCTORAL THESES, RESEARCH
 REPORTS, TASK PERFORMANCE
30. SE 005 485 2 22 24 17
 PASSER, MOSES
 CONTINUING EDUCATION FOR THE CHEMIST, THE ROLE OF THE AMERICAN CHEMICAL SOCIETY
 AMERICAN CHEMICAL SOCIETY, WASHINGTON, D.C.
 12 00 64 47
 *CHEMISTRY, *CHEMISTS, *EDUCATIONAL PROGRAMS, *INSTRUCTION, *PROFESSIONAL
 CONTINUING EDUCATION, INDUSTRY
31. SE 005 157 1 22 86 17
 PEARL, PHILIP DAVID
 WILLIAM WHEWELL'S CONCEPTION OF THE PHILOSOPHY OF SCIENCE
 NEW SCHOOL FOR SOCIAL RESEARCH
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 66 273
 *PHILOSOPHY, *SCIENCES, *SCIENCE HISTORY, DOCTORAL THESES, LOGIC
32. SE 005 773 1 22 86 17
 PEWITT, JAMES DUDLEY
 CAREER PROGRESSION DILEMMA FACING SCIENTISTS
 UNIVERSITY OF SOUTHERN CALIFORNIA
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 68 233
 *CAREER CHOICE, *MANAGEMENT, *RESEARCH, *SCIENTISTS, DOCTORAL THESES, RESEARCH
 REPORTS
33. SE 004 484 2 22 35 17
 STRASSENBURG, ARNOLD A.
 AMERICAN INSTITUTE OF PHYSICS PROGRAMS IN EDUCATION - PRESENT AND FUTURE
 AMERICAN JOURNAL OF PHYSICS
 09 00 67 11
 *COLLEGE SCIENCE, *PHYSICS, *SECONDARY SCHOOL SCIENCE, COLLEGES, CURRICULUM
 DEVELOPMENT, EDUCATIONAL PROGRAMS, EMPLOYMENT STATISTICS, ENROLLMENT TRENDS,
 JUNIOR COLLEGES, PHYSICS TEACHERS, SCIENTIFIC MANPOWER, UNDERGRADUATE STUDY,
 NATIONAL SCIENCE FOUNDATION, AMERICAN INSTITUTE OF PHYSICS

34. SE 005 179 2 22 92 17
 SWANN, ALBERT HENRY
 A STUDY OF PHYSICAL SCIENCE INSTRUCTION IN THE PUBLIC HIGH SCHOOLS OF MISSISSIPPI
 UNIVERSITY OF MISSISSIPPI
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 67 188
 *COURSE CONTENT, *SECONDARY SCHOOL SCIENCE, *SURVEYS, *SCIENCE COURSES,
 CHEMISTRY, DOCTORAL THESES, PHYSICS, PHYSICAL SCIENCES, RESEARCH REPORTS,
 SCIENCE FACILITIES, TEACHER EDUCATION, MISSISSIPPI
35. SE 004 324 2 22 86 17
 TESCONI, CHARLES ALEXANDER
 A COMPARISON OF THE PHILOSOPHY OF EDUCATION WITH THE PHILOSOPHIES OF ART,
 HISTORY AND SCIENCE
 CINCINNATI UNIVERSITY, OHIO
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 65 462
 *EDUCATIONAL PHILOSOPHY, *PHILOSOPHY, *PROFESSIONAL EDUCATION, *TEACHER EDUCATION,
 ART, DOCTORAL THESES, HISTORY, HIGHER EDUCATION, RESEARCH REPORTS, SCIENCE
36. SE 003 757 3 22 83 25
 UNITED NATIONS EDUCATIONAL SCIENTIFIC, AND CULTURAL ORGANIZATION
 SCIENCE POLICY AND ORGANIZATION OF RESEARCH IN NORWAY
 UNITED NATIONS EDUCATIONAL SCIENTIFIC, AND CULTURAL ORGANIZATION, PARIS, FRANCE
 UNESCO PUBLICATIONS CENTER, 317 EAST 34 STREET, NEW YORK, NEW YORK
 ED 023 569 NOT AVAILABLE FROM EDRS
 66 100
 *COLLEGE SCIENCE, *INTERNATIONAL EDUCATION, *RESEARCH, *SCIENTIFIC RESEARCH,
 *SCIENCE EDUCATION, ADMINISTRATION, POLICY, SCIENTIFIC PERSONNEL, NORWAY
37. SE 004 229 3 22 15 17
 VAN COTT, HAROLD P.; KINKADE, ROBERT G.
 A FEASIBILITY STUDY DETERMINING REQUIREMENTS OF BIOLOGICAL INFORMATION SERVICES
 AND SYSTEMS
 NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
 EDRS
 ED 017 466 MF \$0.25 HC \$1.10
 11 00 67 20
 *INFORMATION CENTERS, *INFORMATION NEEDS, *INFORMATION SYSTEMS, BIOLOGY, COLLEGE
 SCIENCE, INFORMATION STORAGE, SCIENTISTS, SECONDARY SCHOOL SCIENCE, RESEARCH
 REPORTS, SCIENCE INFORMATION SERVICE, AMERICAN INSTITUTES FOR RESEARCH
38. SE 004 252 1 22 44 14
 WESTERMANN, G. E. G.
 NORTH AMERICAN PALEONTOLOGISTS IN 1967
 GEOTIMES
 02 00 68 2
 *DIRECTORIES, *PALEONTOLOGY, *SCIENTISTS, ARCHAEOLOGY, EARTH SCIENCE, GEOLOGY,
 SCIENTIFIC RESEARCH

39. SE 005 653 1 22 83 17
 WILLIAMSON, HUGH; JOHNSON, PHILIP
 CHEMICAL RESEARCH AND THE SMALL COLLEGE
 JOURNAL OF RESEARCH IN SCIENCE TEACHING
 68 3
 *CHEMISTRY, *COLLEGE SCIENCE, *RESEARCH OPPORTUNITIES, *SCIENTIFIC RESEARCH,
 NATIONAL SCIENCE FOUNDATION
40. SE 004 624 3 22 86 20
 WOOD, DONALD A.; LEBOLD, WILLIAM K.
 THE MULTIVARIATE NATURE OF PROFESSIONAL JOB SATISFACTION. PAPER PRESENTED AT THE
 ANNUAL CONFERENCE OF THE INDIANA MANPOWER RESEARCH ASSOCIATION, NOVEMBER 30, 1967
 PURDUE UNIVERSITY, LAFAYETTE, INDIANA
 EDRS
 ED 023 578 MF \$0.25 HC \$1.05
 11 00 67 19
 *CAREERS, *ENGINEERS, *EMPLOYMENT, *JOB SATISFACTION, ENGINEERING, PHYSICAL
 SCIENCES, SCIENTISTS, SOCIOECONOMIC INFLUENCES, INDIANA MANPOWER RESEARCH ASSOCIATION
41. SE 005 466 1 22 86 17
 WOOD, ROGER L.; AND OTHERS
 RESEARCH REPORT - SCIENTIFICALLY AND/OR TECHNOLOGICALLY ORIENTED ARTICLES FOR
 SELECTED NEWSPAPERS
 JOURNAL OF RESEARCH IN SCIENCE TEACHING
 68 3
 *SCIENTIFIC LITERACY, *SCIENCES, *TECHNOLOGY, RESEARCH REPORTS, SCIENTIFIC
 LITERACY RESEARCH CENTER, UNIVERSITY OF WISCONSIN
42. SE 005 565 1 22 94 32
 ENGINEERING MANPOWER COMMISSION NEWS
 ENGINEERS JOINT COUNCIL, NEW YORK, NEW YORK
 10 10 68 4
 *CONTINUING EDUCATION, *COLLEGE GRADUATES, *EMPLOYMENT TRENDS, *ENGINEERS,
 *SURVEYS, ENGINEERING, GRADUATE STUDENTS, NEWSLETTERS
43. SE 005 697 1 22 34 03
 RECENT MEETINGS
 AMERICAN JOURNAL OF PHYSICS
 10 00 68 4
 *BIBLIOGRAPHIES, *CONFERENCES, *PHYSICS, *REGIONAL PROGRAMS, PROFESSIONAL
 CONTINUING EDUCATION, PROFESSIONAL ASSOCIATIONS, AMERICAN ASSOCIATION OF PHYSICS
 TEACHERS, ARKANSAS-OKLAHOMA-KANSAS-SECTION, WESTERN PENNSYLVANIA SECTION,
 KENTUCKY SECTION, MICHIGAN SECTION

44. SE 005 897 1 22 93 06
REPORT OF A SEMINAR ON OPPORTUNITIES IN BUSINESS FOR B.S. GRADUATES OF COLLEGES
OF AGRICULTURE
NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C.
12 00 63 20
*AGRICULTURE, *COLLEGE SCIENCE, *CONFERENCE REPORTS, *CAREER OPPORTUNITIES,
BUSINESS, EDUCATIONAL TRENDS, NATURAL RESOURCES, COMMITTEE ON EDUCATIONAL POLICY
IN AGRICULTURE
45. SE 005 395 1 22 35 37
REWARDING CAREERS FOR WOMEN IN PHYSICS
AMERICAN INSTITUTE OF PHYSICS
67 18
*CAREERS, *PHYSICS, *SCIENCE CAREERS, BIOPHYSICS, COMMUNICATION, SALARIES,
NATIONAL SCIENCE FOUNDATION

E. AUTHOR INDEX

Authors or organizations responsible for documents are listed alphabetically. The document number of each publication listed is entered after the name of the author or organization. The letter indicates the section of the bibliography and the numeral represents the document number in that section.

ALDEN, JOHN (D1)

ALDEN, JOHN D. (A1, D2, D3, D4)

AMERICAN INSTITUTE OF
PHYSICS (D5, D6)

ARLT, GEORGE (B1)

BAILS, JERRY GWIN (D7)

BLOUGH, GLENN (A2)

BLUM, ZAHAVA D. (D8)

BOERCKER, FRED (D9)

BRAINARD, ROBERT W. (A3, A4, A5,
A6, A7, A8)

BROOKES, WILLIAM J. (D10)

BRONOWSKI, J. (A9)

BUCHANAN, BRUCE GARDNER (G1)

BURKHART, BRUCE (D11)

BUSSER, JOHN H. (D12)

CARLETON, ROBERT H. (D13)

CASTRO, BARRY (D14)

CHINN, EWING Y. (C2)

CONANT, JAMES BRYANT (D15)

DOWNS, GEORGE R. ;
HENDERSON, BONNIE C. (D16)

DROPPERS, GARRETT (C3)

ELKANA, YEHUDA (C4)

ENGINEERING MANPOWER COMMISSION
(D17, D18)

ENTWISLE, DORIS R. ;
GREENBERGER, ELLEN (D19)

GILLESPIE, A. S. (B2)

GLASER, EDWARD M. (D20)

GOLDBERG, STANLEY (B3, C5)

GRAHAM, LOREN RAYMOND (D21)

HENDERSON, BONNIE C. (D22)

KIEFFER, WILLIAM F. (A10)

KLOPFER, LEOPOLD E. (A11)

LAUTER, HERMAN ALFRED (D23)

LAWLESS, BROTHER DESALES (C6, D24)

LEEDS, MORTON (A12)

MUNSEN, JAMES RONALD (C7)

NATIONAL SCIENCE FOUNDATION
(D25, D26, D27, D28)

NOLL, ROBERT FRANCIS (D29)

O'HEARN, GEORGE T. (A13)

OPPENHEIMER, J. ROBERT (A14)

OSLER, MARGARET JO (C8)

PARK, DAVID (C9)

PASSER, MOSES (D30)

PEARL, PHILIP DAVID (C10, D31)

PERLMAN, JACOB (A15)

PEWITT, JAMES DUDLEY (D32)

POLINSKY, GERALD REIDMAN (C11)

PRIOR, MOODY E. (A16)

SCHAGRIN, MORTON LOUIS (C12)

SEYMOUR, S. FREDERICK (A17)

STANTON, WILLIAM RAGAN (C13)

STOLLBERG, ROBERT;
AND OTHERS (B4)

STRASSENBURG, ARNOLD A. (D33)

STUEWER, ROGER HARRY (C14)

SWANN, ALBERT HENRY (D34)

TESCONI, CHARLES ALEXANDER (D35)

UNITED NATIONS EDUCATIONAL SCIENTIFIC,
AND CULTURAL ORGANIZATION (D36)

VAN COTT, HAROLD P. ;
KINKADE, ROBERT G. (D37)

WESTERMANN, G. E. G. (D38)

WHITE, HARVEY E. (B5)

WHITEHEAD, ALFRED NORTH (A18)

WILLIAMSON, HUGH;
JOHNSON, PHILIP (D39)

WITTMER, PAUL WILLIAM (A19, C15)

WOOD, DONALD A. ;
LEBOLD, WILLIAM K. (A40)

WOOD, ROGER L. ;
AND OTHERS (D41)

ZALTMAN, GERALD (A20)

F. UNAUTHORED INDEX

ENGINEERING MANPOWER COMMISSION (D42)

COMMITTEE ON PHYSICS AND SOCIETY FORMED BY AIP (A21)

RECENT MEETINGS (D43)

REPORT OF A SEMINAR ON OPPORTUNITIES IN BUSINESS FOR B.S. GRADUATES OF COLLEGES OF
AGRICULTURE (D44)

REWARDING CAREERS FOR WOMEN IN PHYSICS (D45)

SCIENCE EDUCATION INFORMATION REPORT, GENERAL BIBLIOGRAPHY SERIES 7, SCIENCE AND SOCIETY,
HISTORY OF SCIENCE EDUCATION, SCIENCE HISTORY, GENERAL STUDIES AND SURVEYS (A22)