The third appendix to Research and Development in Vocational and Technical Education for Non-Metropolitan Areas (VT 007 214) contains four major subdivisions: (1) a survey of projects funded by the U.S. Office of Education during 1965 and 1966, (2) a selected bibliography of books listing 329 references on occupational training and career guidance, (3) a selected bibliography of books giving 89 references on vocational and technical education, and (4) articles on vocational-technical education found in indexes and abstracts, dated 1945 to 1965. Related documents of this series are available as VT 007 129-VT 007 131, ED 011 068, and ED 011 069. (DM)
RESEARCH AND DEVELOPMENT IN VOCATIONAL AND TECHNICAL EDUCATION:
NON-METROPOLITAN AREAS: SURVEY OF REPORTED RESEARCH

APPENDIX THREE

June 1968

U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE

Office of Education
Bureau of Research
RESEARCH AND DEVELOPMENT IN VOCATIONAL AND TECHNICAL EDUCATION:
NON-METROPOLITAN AREAS: SURVEY OF REPORTED RESEARCH

APPENDIX THREE

Robert W. Thomas

Iowa State University
Ames, Iowa

June 1968

The research reported herein was performed pursuant to a contract with the Office of Education, U.S. Department of Health, Education, and Welfare. Contractors undertaking such projects under Government sponsorship are encouraged to express freely their professional judgment in the conduct of the project. Points of view or opinions stated do not, therefore, necessarily represent official Office of Education position or policy.

U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE

Office of Education
Bureau of Research
Appendix three, representing work done for the Sub-Committee on Research, has four major subdivisions. The first is a survey of projects funded which names projects and investigators for funded U.S. Office of Education projects during 1965 and 1966. The second major subdivision is a selected bibliography of books which lists 329 references dealing with occupational training and career guidance. Third is another selected bibliography of books giving 89 references dealing specifically with vocational and technical education. The fourth major subdivision gives articles on vocational-technical education and was prepared by Robert W. Thomas and Carolyn Taff with acknowledged assistance from 14 others who did most of the library search. These selected articles are organized into four groups, each group representing a five-year time period. Further details are given at the beginning of the major subdivisions.
ACKNOWLEDGEMENTS

For their editorial and secretarial assistance, the author wishes to thank Darlene Bucholz, Ann Hull, Lois McCormick, Susan Nissen, Carolyn Taff, and Mary Rae Van Dorn.

For substantive stimulation, the author wishes to thank his fellow members on the Sub-Committee on Research: Ernest W. Anderson, Donald E. Boles, Clarence E. Bundy, Earl O. Heady, Trevor G. Howe, and Edwin C. Lewis.

\[1/\]

Robert W. Thomas, Associate Professor of Economics, Department of Economics, Iowa State University, Ames, Iowa; serving as: (1) Chairman, Strategic Intelligence Unit of the Project for Research and Development in Vocational and Technical Education: Non-metropolitan Areas, and (2) Chairman, the Sub-Committee on Research.
SURVEY OF PROJECTS FUNDED, 1965 and 1966

United States Office of Education, Division of Adult and Vocational Research, Bureau of Research
### Type of Project

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<tr>
<th>Type</th>
<th>Description</th>
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<td>Res.</td>
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<td>Tng.</td>
<td>Training</td>
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<tr>
<td>E-D-P</td>
<td>Experimental, Development and Pilot</td>
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<tr>
<td>C</td>
<td>Research Center</td>
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<td>RCU</td>
<td>Research Coordinating Unit</td>
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### Priority Area

1. Program Evaluation
2. Curriculum Experimentation
3. Personal and Social Significance of Work
4. Personnel Recruitment and Development
5. Program Organization and Administration
6. Adult and Continuing Education
7. Occupational Information and Career Choice
8. Miscellaneous
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<tr>
<th>Institution and Principal Investigator(s)</th>
<th>Title</th>
<th>Priority Area</th>
<th>Contract or Grant Period</th>
<th>Federal Funds</th>
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<tr>
<td>Arthur M. Lee, Arizona State College, Flagstaff, Arizona</td>
<td>Establishment of a State Occupational Research and Development Coordinating Unit</td>
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<td>6/1/65-11/30/66</td>
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<td>Glen Teeter</td>
<td>Evaluation of the Effectiveness of Using Specialized Instructors in Providing Occupational Training for High School Vocational Agriculture Students</td>
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<td>Norman E. Watson</td>
<td>An Eight-Week Summer Institute Training Program to Retrain Office Education Teachers for Teaching Business Electronic Data Processing</td>
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<td>W. James Popham</td>
<td>Performance Tests of Instructor Competence for Trade and Technical Education</td>
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<td>Wesley P. Smith</td>
<td>A Proposal for the Establishment of a State Coordinating Unit for Occupational Research and Development</td>
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<td>Clayton L. Stouffer Bay Area Educational Television Association (KQED) Stanford, California</td>
<td>Preparation for Progress to the Future</td>
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<td>Patsy McMurtrie</td>
<td>Development and Evaluation of a One-Semester Stenography Course: Phase One of a Two-Phase Program</td>
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<td>Dwight Allen</td>
<td>Flexibility for Vocational Education Through Computer Scheduling</td>
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<td>Henry S. Breitrose</td>
<td>Production of a Motion Picture for the Inservice Training of Teachers in Problems of Human Relations in Teaching the Socio-economically Disadvantaged</td>
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<td>Harry V. Kincaid</td>
<td>Supply and Demand Factors Affecting Vocational Education Planning</td>
<td>Res.</td>
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<td>John D. Krumboltz</td>
<td>Vocational Problem-Solving Experiences for Stimulating Career Exploration and Interest</td>
<td>Res.</td>
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* Funds for total project duration. Project transferred to Educational Resources Development Branch pursuant to July 1, 1965 Office of Education Reorganization.
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<td>Forest C. Carter, Colorado State University, Ft. Collins, Colorado</td>
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<td>Donald L. Frick and Gordon G. McMahon, Colorado State University, Ft. Collins, Colorado</td>
<td>Training Program for Vocational Counselors</td>
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<td>6/1/65-11/30/65</td>
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<td>Douglas Sjogren, Colorado State University, Ft. Collins, Colorado</td>
<td>A Plan to Provide an Occupational Research Center at Colorado State University</td>
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<td>6/1/65-11/30/66</td>
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<td>Herman M. Weisman, Colorado State University, Ft. Collins, Colorado</td>
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<td>Paul M. Hodgson Delaware State Department of Public Instruction Vocational Technical Division</td>
<td>Teacher Education for Rural Low Achieving Disadvantaged Junior High School Students</td>
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<td>Nicholas H. Borata</td>
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<td>Huey E. Charlton Atlanta University Atlanta, Georgia</td>
<td>A Short Course for Secondary School Counselors on Vocational and Technical Training and Employment Opportunities</td>
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<td>Kenneth M. Loudermilk</td>
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<td>Anna Carol Fultz, Southern Illinois University, Carbondale, Illinois</td>
<td>Workshop for the Preparation of Home Economics Teachers to Teach Wage-Earning Programs in Food Service</td>
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<td>John E. Roam, Quincy Public Schools, Quincy, Illinois</td>
<td>A Demonstration Training Program for Potential School Dropouts</td>
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<td>Coordination and Promotion of Research and Development Activities in Vocational Education in Illinois</td>
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<td>Jerry S. Dobrovolny, University of Illinois, Urbana, Illinois</td>
<td>An Eight-Week Summer Training Program to Upgrade Subject Matter Competency of High School Drafting Teachers in Advanced Graphics, Statics, and Applied Mathematics</td>
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<td>Seminars for the Training of Researchers in Vocational Education</td>
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<td>Elizabeth Simpson, University of Illinois, Urbana, Illinois</td>
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<td>A Study of Recommendations for Technical Education Curricula</td>
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* Funds for total project duration. Project transferred to Educational Resources Development Branch pursuant to July 1, 1965 Office of Education Reorganization.
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<td>Establishment of an Occupational Research and Development Coordinating Unit for the State of Iowa</td>
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<td>Virgil S. Lagomarcino</td>
<td>Interdisciplinary Research and Development in Vocational and Technical Education; Non-Metropolitan Areas</td>
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<td>Ray Agan</td>
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<td>Carl R. Lamar</td>
<td>Structuring a Program of Research and Development for Kentucky Designed to Bring Together All Available Research Resources to Support a Continuing Program of Vocational Education</td>
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* Funds for total project duration. Project transferred to Educational Resources Development Branch pursuant to July 1, 1965 Office of Education Reorganization.
U.S. Office of Education  
Division of Adult and Vocational Research  
Bureau of Research

PROJECTS APPROVED AND FUNDED DURING FISCAL YEAR 1966  
(July 1 - November 30, 1965)

EDUCATIONAL RESOURCES DEVELOPMENT BRANCH

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<td>Identification and Development of Instruments for a Study of State Vocational-Technical Education Agencies and Their Influence Upon Local Programs</td>
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<td>James E. Bottoms, State Department of Education, Atlanta, Georgia</td>
<td>Developing a Program of Student Personnel Services for Area Vocational-Technical Schools</td>
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<td>A. O. Duncan, University of Georgia, Athens, Georgia</td>
<td>The Development of a Teacher's Guide on Keeping and Analyzing Supervised Farming Records in Vocational Education in Agriculture</td>
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<td>Kenneth Ertel</td>
<td>A Conference of Key Small School Administrators of the Northwest to Develop Vocational Education Programs for Small Isolated School Districts</td>
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- **Institution and Principal Investigator(s):** Kenneth Ertel, University of Idaho, Moscow, Idaho
- **Title:** A Conference of Key Small School Administrators of the Northwest to Develop Vocational Education Programs for Small Isolated School Districts
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- **Contract or Grant Period:** 7/1/65-8/31/65
- **No.:** 2
- **Federal Funds:** $6,116
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<td>A Proposal to Prepare Teachers and to Develop Instructional Materials for Food Service Occupations</td>
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**PROJECTS APPROVED AND FUNDED DURING FISCAL YEAR 1965**

**HUMAN RESOURCES AND DEVELOPMENT BRANCH**

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* Funds for total project duration. Project transferred to Human Resources and Development pursuant to July 1, 1965, Office of Education Reorganization.
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<td>An Experimental Research Demonstration Project in Pre-Retirement Education for Hourly-Rated Workers</td>
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* Funds for total project duration. Project transferred to Human Resources and Development pursuant to July 1, 1965, Office of Education Reorganization.
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U.S. Office of Education  
Division of Adult and Vocational Research  
Bureau of Research

PROJECTS APPROVED AND FUNDED DURING FISCAL YEAR 1966  
(July 1 - November 30, 1965)

HUMAN RESOURCES DEVELOPMENT BRANCH

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<td>R. Garry Shirts</td>
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<td>Daniel Katz</td>
<td>The Effectiveness of Experimental Conferences</td>
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<td>George Mallinson</td>
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<td>Interest and Ability Pattern Comparison of Successful and Unsuccessful Male College Students in Technical and Associate Degree Programs</td>
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<td>Environmental Influences on Occupational Programs of Public Junior Colleges</td>
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Division of Adult and Vocational Research  
Bureau of Research

PROJECTS APPROVED AND FUNDED DURING FISCAL YEAR 1965  
EMPLOYMENT OPPORTUNITIES BRANCH
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<td>C. L. Mondart</td>
<td>Development of Training Programs for Youth Preparing to Enter Nonfarm Jobs</td>
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<td>Otis D. Duncan</td>
<td>Socioeconomic Background and Occupational Achievement: Extension of a Basic Model</td>
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<td>Fred Cook</td>
<td>Opportunities and Requirements for Initial Employment of School Leaders with Emphasis on Office and Retail Jobs</td>
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* Funds for total project duration. Project transferred to Employment Opportunities Branch pursuant to July 1, 1965, Office of Education Reorganization.
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<td>Jerry M. Rosenberg</td>
<td>The Need for a Renewed Conception of Vocational Education</td>
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<td>5/1/65-8/31/65</td>
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<td>William G. Loomis</td>
<td>A System for Planning, Implementing and Evaluating Vocational Education</td>
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<td>Jacob Kaufman</td>
<td>Research, Development and Demonstration in Adult Training and Retraining</td>
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<td>Jacob Kaufman and Carl Schaefer</td>
<td>The Preparation of Youth for Effective Occupational Utilization</td>
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<td>J. Kenneth Little, University of Wisconsin, Madison, Wisconsin</td>
<td>Conference on Occupational Data Requirements for Education</td>
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U.S. Office of Education  
Division of Adult and Vocational Research  
Bureau of Research  

PROJECTS APPROVED AND FUNDED DURING FISCAL YEAR 1966  
(July 1 - November 30, 1965)  

EMPLOYMENT OPPORTUNITIES BRANCH

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<td>1. Program Evaluation</td>
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<td>2. Curriculum Experimentation</td>
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<td>E-D-P</td>
<td>3. Personal and Social Significance of Work</td>
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<td>4. Personnel Recruitment and Development</td>
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<td>6. Adult and Continuing Education</td>
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<td>7. Occupational Information and Career Choice</td>
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<td>8. Miscellaneous</td>
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Research  
Training  
Experimental, Developmental and Pilot  
Research Center  
Research Coordinating Unit
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<tr>
<td>James Albracht</td>
<td>Determining Vocational Competencies for the Performance of Essential Activities for Sales Personnel in the Feed Industry and the Sites at Which the Competencies Could Be Taught</td>
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PROJECTS APPROVED AND FUNDED DURING FISCAL YEAR 1966

EMPLOYMENT OPPORTUNITIES BRANCH
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<th>Institution and Principal Investigator(s)</th>
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<td>Maurice W. Roney, Oklahoma State University, Stillwater, Oklahoma</td>
<td>Development of Curriculum Guide in Electro-Mechanical Technology</td>
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<td>Ann Martin University of Pittsburgh Pittsburgh, Pennsylvania</td>
<td>A Multi-Media Approach to Communicating Occupational Information to Non-College Youth</td>
<td>E-D-P</td>
<td>7</td>
<td>10/1/65-11/30/67</td>
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<td>$124,390</td>
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</table>
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iacy of the Person*, D. C. Heath, Boston, Massachusetts, 1948.


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SELECTED BIBLIOGRAPHY OF ARTICLES ON VOCATIONAL-TECHNICAL EDUCATION

Robert W. Thomas
Carolyn Taff
PREFACE

This is a bibliography of journal articles for years 1945 - 1965 in the area of vocational-technical education. The articles which are included are those written in English and found in the indexes and abstracts listed on the next page. These articles were chosen for the bibliography on the basis of the following definitions of the words "vocational-technical education."

Vocational means the way someone makes his or her living. It is a job, not a hobby. Technical is defined as a specialized physical and/or mental skill which, to learn, requires less than four years after high school. This learning process may include one, two, or three year courses in a college or a university. For example, a technical institute at a university may be included. Education is defined as the teaching of these technical skills. Not included in this bibliography are articles dealing with the general philosophy of teaching. That is, there are no articles regarding where teaching fits into the social order or general pattern of world happenings.

The selected articles are grouped under four headings:

I) is a list of articles from 1961 - 1965;

II) is a list of articles from 1956 - 1960;

III) is a list of articles from 1951 - 1955; and

IV) is a list of articles from 1945 - 1950.

The work "thesis" was used to designate a Master's thesis and the word "dissertation" was used to designate a Ph. D. dissertation. Thus, "thesis" is only used when referring to a Master's degree.

The authors gratefully acknowledge the assistance of the following individuals in the bibliographic search: Sara Boys, Michel Coler, Jane Fink, William Grothus, Roger Hanson, Ann Hull, Annedale Key, Dale Mathre, Lois McCormick, Dierdre Peglar, Toni Pounds, Georgetta Seals, Ann Skogstrom, and Jerrold Soesbe.
LIST OF REFERENCES EXAMINED

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Biological and Agricultural Index.
British Technology Index.
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Computer Abstracts.
Dairy Science Abstracts.
Education Index.
Electrical Engineering Abstracts.
Engineering Index.
Forestry Abstracts.
General Foods Corporation Current Abstracts.
Government-Wide Index to Federal Research and Development Reports.
Industrial Arts Index.
New York Times Index.
Photographic Abstracts.
Rand Corporation - Selected Rand Abstracts.
Readers' Guide to Periodical Literature.
Research Studies in Education.
Social Sciences and Humanities Index.
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