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AUTHOR Huber, Jake
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ABSTRACT

Intended to stimulate and foster better communication, cooperation, and understanding between the National Institute of Education (NIE) and Research Coordinating Units (RCU) personnel, this report documents the compatibility between NIE's objectives and the current activities of the RCU's. In both general and specific terms, the activities of NIE are related to the complementary efforts of the RCU's. The major strengths of the RCU's lie in their inter-agency cooperation and positive administrative relations with local education agencies (LEA's) and national centers. One of the major achievements of the RCU program is the focusing of attention upon research in the field of vocational education. The following RCU functions among others are observed: (1) stimulating, facilitating, and coordinating innovative research and developmental efforts of individuals and groups, (2) producing and evaluating prototype innovative curriculums, (3) administering research-related grants and contracts with agencies and institutions, and (4) disseminating the results of research-related activities to facilitate further research and development, improve the rationality of educational decision-making, and speed the application of new knowledge and the adoption of worthy innovation practice.
(Author/MU)

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**THE ROLE OF THE NATIONAL SYSTEM OF
RESEARCH COORDINATING UNITS IN THE
RESEARCH - TO - PRACTICE CONTINUUM**

by

Jake Huber



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THE ROLE OF THE NATIONAL
SYSTEM OF RESEARCH
COORDINATING UNITS IN THE
RESEARCH-TO-PRACTICE CONTINUUM

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by
Jake Huber, Coordinator
Nevada Research
Coordinating Unit

The following people generously devoted their time
to review and contribute to this position paper:

Mr. James Ray Barber, Director
Texas Occupational Research
Coordinating Unit

Dr. Charles Rogers, Director
North Carolina Occupational
Research Unit

Dr. Virginia Bert
Consultant for Vocational Research
Florida Bureau of Research and
Evaluation

Dr. Ronald J. Saris, Director
Massachusetts Research
Coordinating Unit

Mr. Larry Braaten, Coordinator
State Vocational Research Programs
Bureau of Adult, Vocational, and
Technical Education
U. S. Office of Education

Dr. Wayne Schroeder, Assistant
Director
Product Utilization
The Center for Vocational and
Technical Education
Columbus, Ohio

Dr. Ronald McCage, Coordinator
Illinois Research and Development
Unit

Mr. Glenn E. Smith, Director
West Virginia Research
Coordinating Unit

Dr. Ferman B. Moody, Director
Pennsylvania Research Coordinating
Unit

FOREWORD

This paper was conceived and developed in response to a presentation made by Thomas Israel and David Hampson at the National RCU Personnel Conference held in Atlanta, Georgia on March 19-22, 1973. The remarks made by these two gentlemen from the National Institute of Education (NIE) in their presentation provided two immediate results. First, the participants were advised of the intents and processes of the emerging NIE. Second, the participants were able to identify areas of mutual interest. There exists a compatibility between NIE's objectives and the current activities of the various Research Coordinating Units (RCUs). The recognition of this compatibility brought about the need for a position paper to be written which would assist NIE personnel in recognizing how the national system of RCUs could help them in their efforts.

It should be borne in mind that the RCUs owe their very existence to the U. S. Office of Education, Bureau of Adult, Vocational, and Technical Education. Our relationship has been both long and fruitful, and we will continue to maintain it as such! It is intended that this paper will stimulate and foster better communication, cooperation, and understanding between NIE personnel and RCU personnel.

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BACKGROUND

The call for establishment of Research Coordinating Units for vocational education represented an attempt to meet concerns voiced in Congressional hearings on P.L. 88-210. These concerns indicated that research in vocational education was intermittent, uncoordinated, and primarily directed toward the administration and operation of programs. It should be noted that until this time most research in vocational education had been done by students as part of their degree programs. Consequently, the Vocational Education Act of 1963 (P.L. 88-210) carried special provisions to meet the need for developing a conscientious and systematic thrust to research in vocational-technical education.

For the first time in the fifty year history of Federal involvement in this area of education, specific recognition was given an aspect of program development and implementation which previously had received only token acknowledgement. Never before had vocational education acts spelled out so clearly the need for coordination of efforts on the part of vocational educators everywhere; never before had there been such a strong focus on the needs of local and state agencies for involvement in coordinated research and development efforts.
Goldhammer, et. al., 1969

Research Coordinating Units (RCUs) were created to stimulate, encourage, and coordinate research activities among state departments of education, universities, local school districts, and others with an interest in vocational and technical education. Operated and funded with monies made available through research appropriations for vocational education, these units undertook the following activities.

1. Review vocational programs within the states.
2. Disseminate research information.

3. Identify competent research resources within the state.
4. Formulate research priorities.
5. Review research proposals and make recommendations for funding.
6. Provide technical consultative service to those conducting research; management, and coordination of vocational R&D efforts.

The rationale for the Research Coordinating program recognized that many state departments of education were not adequately staffed to assure the management and coordination of desirable research and training programs under the 1963 Act. It was suggested that an appropriate first step be the establishment of occupational research and development units.

Some RCUs were established on university campuses where sophisticated research scholarship and training of vocational education researchers could be accomplished. Other RCUs were located in state departments of education where they could relate to the users, coordinate the development activities, and disseminate research information most appropriately.

Functionally, several RCUs have developed highly regarded research capabilities while others have developed sophisticated research dissemination operations. The remaining RCUs operate at various levels between these functions depending on their perception of the needs within their own state.

These differences make generalization about RCUs difficult for no two are exactly alike. However, in practice, the RCUs, whether located in universities or state departments of education, have evolved as a group into a unified national system of research information dissemination and a valuable technical consultant resource for their users.

RESEARCH

No discussion of RCUs would be complete without an attempt to delineate a generalized philosophy of research. While definitions of research are always dangerous to state, it is regarded as necessary in this case. This is primarily because the RCUs operate within a narrow spectrum of the total research to practice continuum.

In the classical sense, research is often defined as the pursuit of knowledge for the sake of knowledge, no immediate usage of the knowledge being intended. This may also be called "pure research." The classical disciplines would argue that education is not a discipline; it is a practicing field drawing knowledge from the various recognized disciplines. Therefore, educational research is by definition the pursuit of knowledge for the sake of application of practice. Analyses of research and development in any field draw upon a varied body of knowledge. Research and development for vocational education is no exception. For analyses of this kind to be acceptable, education (and vocational education) cannot be regarded as a discipline. Quite the contrary, it must be a podium for the expression and interaction of diverse social, technical, and political forces which can allow for investigation, study, and improvement. Consequently, the conceptualizations of vocational education research and development are actually linked to the goals and activities that vocational education is called upon to perform by society. Therefore, research in vocational education reacts to society's call and is applied research (action research, development, etc.) in the general sense.

The role of the RCUs in this "paradigm of semantics adnauseum" is to provide their best coordinating services by locating and bringing together all the separate specialities that exist in educational research. The RCUs must then attempt to package the specialty concepts, characteristics, and materials and establish flow-through mechanisms to direct this "new knowledge" to potential users. As a group, the RCUs have not attempted to become solely research-generation organizations. This is as it should be for there are currently in existence some very capable organizations with more than adequate facilities, staff, and other resources to do the "more basic" research. As a system of administrative agencies, the RCUs are much more capable of organizing and planning on the local or state level and testing the results of "more basic" research in their own settings. They have demonstrated both the capability and the experience of monitoring research and exemplary projects, and they, as a group, have demonstrated their ability to disseminate research on vocational, technical, and career education.

The RCUs possess some unique features which have implications for educational change. They are in close proximity to much of the local operational level of education. Their actions relate to the total decision-making framework within an individual state. The sometimes individual interests of state managers, local schools, and universities can be transcended by an overall perspective on the part of RCUs.

Both educational research and dissemination can benefit from the peculiar vantage point of RCUs.

Educational research starts with problem identification which is dependent upon accurate context assessment through observations and other means. The normal close contacts between RCUs and other educational agencies within a state provides much valuable insight to problems in education. This perspective, plus staff expertise, could be utilized further to the identification of researchable problems in education.

Educational change depends upon the applications of solutions to problems. Frequently, those who are confronted by the problems have little direct access to solutions. RCUs play a vital role in the acquisition, selection, and channeling of solutions within the statewide educational system.

DISSEMINATION

A major intent of the monies allocated under Part "C" of the Vocational Education Act has been the dissemination of research and development information to stimulate change. These funds have been significantly effective both locally and nationally.

The individual RCUs comprising the National Association of RCU Personnel have served to further increase the impact of these funds through their individual and collective efforts.

Project Baseline reports that "all of the research coordinating units provide information dissemination services in response to specific requests or in the form of mailings of reports and documents. Most units publish periodically a newsletter containing reviews of recent research and development projects and other information related to change and innovation. In addition, many units publish bibliographies and compile abstracts of research in specific areas of interest. Although data on the total number of users benefiting from this dissemination effort is lacking, it is safe to assume that it is a large percentage indeed of the educators across the nation. ...Although hard data on the actual impact of these dissemination systems to educators across the nation defies collection, to say nothing of measurement, there can be little doubt that the impact is there. Perhaps one of the best examples of this impact is Career Education. The present status of this concept, in terms of interest, discussion, program implementation, and program modification, is due to basic research performed with vocational education money. One of the major conduits through which information about this research flows has been the dissemination network established through the effort of research coordinating units across the nation."
(Lee, 1973)

RCUs have been given responsibility for coordinating the dissemination of research findings. They have acted as a depository for state research findings and as a request center for information on national projects. This information has originated from different sources within the state and from relevant projects outside the state. By actively serving as a linkage

system between LEA personnel and technical systems, RCUs continually attempt to provide up-to-date information critical to innovation.

Dissemination can have passive as well as active forms. It may be important to have repositories of information that can be tapped, as well as to have agencies, programs, or activities designed to carry diverse messages derived from research and development activities to a variety of educators.

The more active forms of RCU dissemination functions include selective dissemination of information systems, information-packaging (or analysis and synthesis) systems, newsletters, publishing, or simulation activities. Yet another form of dissemination is demonstration, the rationale for which is the development of a critical mass of innovations within a given location. Assuming that the innovations have applications outside of their immediate setting, the demonstration center may then become a showplace for other schools to view. Such demonstration centers are frequently "advertised," sponsored, and assisted in their operations by the RCU in a given state.

SUMMARY

The major strengths of RCUs center around inter-agency cooperation and positive administrative relations that have been carefully and systematically built up over the last six years. Both the relations between RCUs and LEAs and the relations between RCUs and national centers are given high priorities.

Goldhammer (et al., 1969) indicates that one:

major achievement of the RCU program is the focusing of attention upon research in the field of occupational education. Comments indicate a fairly strong feeling among at least the occupational education personnel responding in our study that occupational education suffered from an image which placed it in an unfavorable position relative to other areas of education. The RCU program, by stimulating and focusing attention upon occupational education research and development, has undoubtedly influenced the image of occupational education. There is more information and more attention focused upon occupational education today than has previously been true.

Drawing upon the work of Guba and Clark¹, Hull (et al., 1969) has identified RCU functions necessary to the systematic improvement of vocational education. The suggested RCU functions listed below are very much in evidence today.

1. Conducting operational and applied research.
2. Developing new and updating existing curriculums and instructional materials.
3. Evaluating the effectiveness of occupational education programs including: (a) the extent to which certain pilot experimental programs are attaining their goals; (b) the cost/effectiveness of alternative ways of providing occupational instruction; and (c) the total impact of the occupational education program in relation to societal needs and goals.

¹Egon Guba and David Clark, "An Examination of Potential Change Roles in Education." Paper presented at the N.E.A. Conference on Innovation in Planning School Curricula, Airlehouse, Virginia, October 2-4, 1965.

4. Stimulating, facilitating, and coordinating the innovative research and development efforts of individuals and groups.
5. Inventing, engineering, producing, and evaluating prototype innovative curriculums and instructional materials.
6. Administering research-related grants and contracts with agencies and institutions.
7. Disseminating the results of research-related activities to: (a) facilitate further research and development; (b) improve the rationality of educational decision-making; and (c) speed the application of new knowledge and the adoption of worthy innovative practices.
8. Coordinating and conducting training activities designed to increase the number and improve the competence of producers and consumers of occupational education research-related activities.

The reader will note that the conduct of basic research is not included above. This function is best left to those agencies financially and physically capable of performing such work. State departments of education, vocational educators, teachers, students, and LEA administrators require applied research results now. They can ill afford research which does not relate to existing or anticipated needs. The RCUs have been providing for these needs while at the same time they disseminate the results of applied research and the results of basic research. In this manner, they supply a needed service in the basic research to practice continuum.

IMPLICATIONS

It is noted that the N.I.E. is considering and preparing a substantial thrust affecting the fitting of students of all ages for profitable employment.²

This charge is noted to be compatible with that of Research Coordinating Units funded under the Vocational Act of 1963 (inclusive of P.L. 90-576 and P.L. 92-318). Further, RCUs have amassed a working expertise involving research, development, diffusion, and evaluation. In particular, advances have been pioneered through RCUs in dealing directly with local settings encompassing Career Education/Career Development to date.

The thrust of P.L. 90-576 is said to concern itself, as a social ameliorative act, to deal directly with the education of unemployed youth, adults, and disenfranchised populations per se. The rapid expansion of regular vocational programs and offerings is noted to be a prime focus of this legislated mandate. Also, State Departments of Education have convincingly endeavored to mobilize State Advisory Councils and other advisory groups to implement the thrust of this effort.

It would seem that the linkages prepared for involvement by the RCUs ideally and practically establish the RCUs as outstanding potential partners with the N.I.E.

Finally, it is reiterated that the N.I.E. should avoid the categorical fragmented communication which occurred under E.S.E.A.: Titles III, IV, and V during the past five years. It

²N.I.E., Career Development Task Force, Forward Plan for Career Education Research and Development, Washington, D. C., April 1973.

is anticipated that relationships between the N.I.E. and RCUs can offer promise of the following:

General

<u>N.I.E. Activity</u>	<u>RCUs Complement</u>
1. Research, Development, Dissemination, and Evaluation Support System	1.1 Research, Development, Dissemination, and Evaluation Delivery and Implementation System
2. Model Determination and Control	2.1 Substantiation of Validity and Control and Participation in Model Development and Control
3. Information Flow	3.1 Information Utilization and Generation
4. National Accumulation of: <ul style="list-style-type: none"> a. knowledge b. practical solutions c. clarification of goals and issues 	4.1 Statewide and Local interface at Institutional and Classroom Level of: <ul style="list-style-type: none"> a. knowledge b. practical solutions c. goal progress and issue resolution
5. Data Based System Development	5.1 Data Based Planning, Pilotings, and Implementation

Specific

<u>N.I.E. Activity</u>	<u>RCUs Complement</u>
1. School Based Model	1.1 Alternative Delivery Vehicles to Meet Local Needs
2. Employer Based Model	2.1 Regional Statistical Bases
3. Home Based Model	3.1 Inter-Agency Services Coordination
4. Rural Residential Model	4.1 Specialized Settings/Service Integration

- | | |
|-------------------------------------|--|
| 5. Rural Education | 5.1 Specialized Settings and Equal Opportunities |
| 6. Special Needs | 6.1 Specialized Settings, Equal Opportunities, Statewide Legislation |
| 7. Monitoring of Evaluation Efforts | 7.1 Evaluation Reporting and Conduct |

Finally, it is noted that coordination of multi-discipline University based research on statewide-inter-state bases, as well as coordination of statewide processing of proposals and priorities emanating therefrom, is the direct responsibility of RCUs within states for Vocational/Occupational Education and where related, Career Development and Career Education. The effect of inter-state coordination could be facilitated, stimulated, and cooperatively related by the N.I.E. The diverse research, development, diffusion, and evaluation units which the Research Coordinating Units represent on a continual and controlled basis present exciting opportunity to compare change agencies and their affects upon American Education in this decade.

Initial linkages should be further explored by N.I.E. with the RCU National Conference Committee and representatives of the Division of Vocational and Technical Education working in unison. A timely and needed Status report of RCUs in the States and Territories would be a particularly appropriate basis upon which to explore further inter-relationships between N.I.E. and RCUs.

In closing, it should be well noted that Career Education and/or Career Development as philosophical concepts and processes require adoption and implementation where the Action Is At, in our free society. RCUs have been operating there with substantial vigor these past six years. In this spirit, we welcome our

new Educational partner, the N.I.E., and extend our hands to assist it in the enormous and vital task the Congress has assigned to it.

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DIRECTÓRY OF RESEARCH OFFICERS
IN EACH STATE
RESEARCH COORDINATING UNIT
OR RELATED OFFICE

STATE	OFFICER
ALABAMA	Dr. James R. Bishop, Branch Director Support Data Branch Vocational-Technical Education Department State Department of Education State Office Building Montgomery, Alabama 36111 (205) 269-7016
ALASKA	Mr. Louis D. Ridle, Director Division of Vocational and Adult Education Department of Education Alaska Office Building, Pouch F Juneau, Alaska 99801 (907) 586-5367
ARIZONA	Dr. Sid Borchert, Director Research Coordinating Unit Department of Education 1535 West Jefferson Phoenix, Arizona 85007 (602) 271-5392
ARKANSAS	Dr. Jack D. Nichols, Director Research Coordinating Unit State Department of Education Arch Ford Education Center Little Rock, Arkansas 72201 (501) 371-1855
CALIFORNIA	Dr. James H. Crandall, Coordinator Research Coordinating Unit State Department of Education 721 Capitol Mall Sacramento, California 95814 (916) 445-9430
COLORADO	Dr. Robert F. Barnes, Director Research Coordinating Unit State Board for Community Colleges and Occupational Education 207 State Service Building Denver, Colorado 80203 (303) 892-3071

STATE	OFFICER
CONNECTICUT	Mr. Richard C. Wilson, Co-Director Dr. Herbert Righthand, Co-Director Research and Planning Unit Division of Vocational Education Connecticut State Department of Education P. O. Box 2219 Hartford, Connecticut 06115 (203) 566-3430 or 566-3008
DELAWARE	Dr. Burton Braverman, Supervisor Curriculum and Research Department of Public Instruction John G. Townsend Building Dover, Delaware 19901 (302) 678-4681
DISTRICT OF COLUMBIA	Dr. Paul E. Cawein Assistant Superintendent D. C. Public Schools 415 Twelfth Street Washington, D. C. 20004 (202) 737-5298
FLORIDA	Dr. Kenneth M. Eaddy, Director Research Coordinating Unit State Department of Education Room 258, Knott Building Tallahassee, Florida 32304 (904) 488-3995
GEORGIA	Mr. Paul C. Scott, Director Occupational Research Coordinating Unit State Department of Education Atlanta, Georgia 30334 (404) 656-2429
HAWAII	Ms. Sybil Kyi Coordinator for Research and Development University of Hawaii 2327 Dole Street Honolulu, Hawaii 96822 (808) 941-0744
IDAHO	Mr. William R. Swenson Assistant State Director Vocational Education State Department of Education 518 Front Street Boise, Idaho 83702 (208) 384-3210

STATE	OFFICER
ILLINOIS	Dr. Ronald D. McCage, Coordinator Research and Development Unit Division of Vocational and Technical Education 1035 Outer Park Drive Springfield, Illinois 62706 (217) 525-4620
INDIANA	Ms. Carol Ann Hodgson, Coordinator Research Coordinating Unit State Department of Education 1012 State Office Building Indianapolis, Indiana 46204 (317) 633-4841
IOWA	Dr. Kenneth M. Wold, Chief Support Services Career Education Division Department of Public Instruction State Office Building Des Moines, Iowa 50319 (515) 281-5334
KANSAS	Mr. Wilbur Rawson, Director Exemplary and Special Needs Program Division of Vocational Education State Department of Education 120 East 10th Street Topeka, Kansas 66612 (913) 296-3346
KENTUCKY	Dr. Robert Schneider, Director Resources Development Unit Bureau of Vocational Education Capital Plaza Tower, Room 2007 Frankfort, Kentucky 40601 (502) 564-3096
LOUISIANA	Dr. Gertrude Enloe, Director Research Coordinating Unit State Department of Education P. O. Box 44064 Baton Rouge, Louisiana 70804 (504) 389-6103
MAINE	Dr. Charles Ryan University of Maine College of Education 114 Shibles Hall Orono, Maine 04473 (207) 581-7463

STATE	OFFICER
MARYLAND	Mr. Marinus A. Kip, Director Research Coordinating Unit for Vocational and Technical Education P. O. Box 8717, Friendship Airport Baltimore, Maryland 21240 (301) 796-8300
MASSACHUSETTS	Dr. Ronald J. Saris, Director Research Coordinating Unit State Department of Education Division of Occupational Education 182 Tremont Street Boston, Massachusetts 02111 (617) 727-5730
MICHIGAN	Dr. David Donovan, Research Consultant Research Coordinating Unit Bureau of Research Box 420 Lansing, Michigan 48904 (517) 373-1830 Mr. James Bebermeyer, Research Consultant Research Coordinating Unit State Department of Education Box 420 Lansing, Michigan 48904 (517) 373-1830
MINNESOTA	Dr. Jerome Moss, Jr., Director Research Coordinating Unit for Vocational Education 145 Peik Hall, University of Minnesota Minneapolis, Minnesota 55455 (612) 373-7789
MISSISSIPPI	Dr. James Shill, Co-Director Dr. James E. Wall, Co-Director Research Coordinating Unit for Vocational- Technical Education Mississippi State University Drawer DX State College, Mississippi 39762 (601) 325-2510 Mr. Harold McMinn, Coordinator Research, Curricula, and Teacher Training Division of Vocational Education State Department of Education P. O. Box 771 Jackson, Mississippi 39205

STATE	OFFICER
MISSOURI	Mr. Glenn W. White, Director Research Coordinating Unit State Department of Education P. O. Box 430 Jefferson City, Missouri 65101 (314) 751-2661
MONTANA	Dr. Robert A. Lehman, Acting Director Research Coordinating Unit Office of Superintendent of Public Instruction Helena, Montana 59601 (406) 449-3695
NEBRASKA	Mr. Elton B. Mendenhall, Director Nebraska Research Coordinating Unit for Vocational Education Box 33, Henzlik Hall University of Nebraska Lincoln, Nebraska 68508 (402) 472-3337
NEVADA	Dr. Jake Huber, Coordinator Research Coordinating Unit College of Education, Room 201 University of Nevada Reno, Nevada 89507 (702) 784-4921
NEW HAMPSHIRE	Ms. Gloria S. Cooper, Director Research Coordinating Unit State Department of Education Stickney Avenue Concord, New Hampshire 03301 (603) 271-3276
NEW JERSEY	Mr. Harold R. Seltzer, Director Bureau of Occupational Research Development State Department of Education Division of Vocational Education 225 West State Street Trenton, New Jersey 08625 (609) 292-5572
NEW MEXICO	Mr. Roger Labodda, Assistant Director Research Coordinating Unit State Department of Education State Educational Building Santa Fe, New Mexico 87501 (505) 827-2329
NEW YORK	Dr. Louis A. Cohen, Chief Bureau of Occupational Education Research State Education Department, Room 468 Albany, New York 12224 (518) 474-6386, 6387, or 6388

STATE	OFFICER
NORTH CAROLINA	Dr. Charles H. Rogers, Director Occupational Research Unit State Department of Public Instruction 50C Education Building Raleigh, North Carolina 27611 (919) 829-4348
NORTH DAKOTA	Dr. Don Eshelby, Director Research Coordinating Unit State Department for Vocational Education 900 East Boulevard Bismarck, North Dakota 58501 (701) 224-3159
OHIO	Mr. Robert Balthaser, Assistant Director Research, Survey, Evaluation, and Exemplary Programs Division of Vocational Education Department of Education 65 South Front Street, Room 613 Columbus, Ohio 43215 (614) 469-2095
OKLAHOMA	Dr. William D. Frazier, Director Research Coordinating Unit State Department of Vocational-Technical Education 1515 West 6th Avenue Stillwater, Oklahoma 74074 (405) 377-2000
OREGON	Dr. Dan Dunham, Coordinator of Applied Research Career Education Division Oregon Board of Education 942 Lancaster Drive, N. E. Salem, Oregon 97310 (503) 378-3597
PENNSYLVANIA	Dr. Ferman B. Moody, Director Research Coordinating Unit Department of Education P. O. Box 911 (3225 Andrea Avenue) Harrisburg, Pennsylvania 17111 (717) 787-4865
RHODE ISLAND	Mr. Orrin LaFerte State Project Director Career Education State Department of Education Roger Williams Building, 24 Hayes Street Providence, Rhode Island 02908 (401) 277-2665

STATE	OFFICE
SOUTH CAROLINA	Mr. Gary J. Lashway, Director Research Coordinating Unit for Vocational Education Rutledge Building, Room 904 1429 Senate Street Columbia, South Carolina 29201 (803) 758-2358
SOUTH DAKOTA	Mr. E. B. Oleson, Director Division of Vocational and Technical Education 222 West Pleasant Drive Pierre, South Dakota 57501 (605) 224-3423
TENNESSEE	Dr. Gary R. Bice, Director Occupational Research and Development Coordinating Unit University of Tennessee 909 Mountcastle Street Knoxville, Tennessee 37916 (615) 974-3338
TEXAS	Mr. Ray Barber, Director Division of Occupational Research Coordinating Unit Department of Occupational Education and Technology Texas Education Agency 201 East 11th Street Austin, Texas 78701 (512) 475-4641
UTAH	Dr. N. Craig Kennington, Director Research Coordinating Unit State Board of Education 1670 University Club Building Salt Lake City, Utah 84111 (801) 328-5891
VERMONT	Mr. Joseph P. Kisko, Director Research Coordinating Unit Vocational-Technical Education Division State Department of Education Montpelier, Vermont 05602 (802) 828-3101
VIRGINIA	Mr. Carl E. Jorgensen, Acting Coordinator Vocational Education Research and Statistical Information Eighth Street Office Building 1312 East Grace Street Richmond, Virginia 23216 (804) 770-2066

STATE	OFFICER
WASHINGTON	Mr. George P. Pilant, Director Research Coordinating Unit 216 Old Capitol Building Olympia, Washington 98504 (206) 753-5672
WEST VIRGINIA	Mr. Glenn E. Smith, Director Research Coordinating Unit Marshall University Huntington, West Virginia 25701 (304) 696-3180
WISCONSIN	Mr. Roland J. Kroystad, Director Research Coordinating Unit Board of Vocational-Technical and Adult Education Hill Farm State Office Building 4802 Sheboygan Avenue Madison, Wisconsin 53702 (608) 266-3705
WYOMING	Dr. Fred P. Black, Jr., Director Research Coordinating Unit Division of Occupational Education Program Services Capitol Building, Room 204 Cheyenne, Wyoming 82001 (307) 777-7445
TRUST TERRITORIES OF THE PACIFIC ISLANDS	Mr. Neal W. Baker, Coordinator Vocational Education Headquarters Education Saipan, Mariana Islands 96950
AMERICAN SAMOA	Mr. Pat Benioni, Coordinator Vocational-Technical Education The Community College of American Samoa Pago Pago, American Samoa 96920
VIRGIN ISLANDS	Mr. Wilburn Smith, Jr., Director Vocational and Technical Education Department of Education P. O. Box 630 St. Thomas, Virgin Islands 00801 (809) 774-5481
PUERTO RICO	Dr. Amalie Ll. de Charneco, Director Research Coordinating Unit Department of Education Commonwealth of Puerto Rico, Box 759 Hato Rey, Puerto Rico 00919 (209) 766-1031
GUAM	Mr. Duane I. Pierce, Director Vocational Education Guam Department of Education Agana, Guam 96910