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RESEARCH NEWS

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MOREHEAD STATE UNIVERSITY
MOREHEAD, KENTUCKY

MOREHEAD STATE UNIVERSITY

FOUNDED 1922

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ALLEN LAKE COMPLETES MURAL ENCIRCLING
240 MILLION YEAR-OLD STIGMARIAN ROOT SYSTEM DISPLAY

The rain pelted the country side of Eastern Kentucky one spring afternoon as Allen Lake and James Chaplin walked down the narrow road-cut in Elliott County. Lake was showing the newcomer to the Morehead faculty the geological formations of the region. Mud sloshed under their feet as the rain formed small streams rushing down the steep hill.

Ahead of the two men, a stream of water eroded a fossil formation in the side of the hill. Lake spotted the stigmariian protrusion as the two men approached the site. After digging away at the stigmariian root, the two realized the specimen was much larger than they anticipated. The more they dug into the mud, the more they uncovered. Lake had discovered one of the largest and most complete stigmariian root systems ever uncovered in the United States. The specimen was found to be a preserved stump and root system dating back to the pre-dinosaur era.

Removal of the fossil became a monumental task. After two weeks of work, the stigmariian pieces were uncovered and labeled in relation to their position. The small pieces were transported to Morehead by automobile while the large central trunk structure was loaded onto a truck bed cushioned with soft Elliott County mud.

For the next eighteen months, the structure was cleaned and rock was collected to form the base for the exhibit site. Expansion of Lappin Hall became a problem because the exhibit work was in the middle of the expansion area of the building.

This was quickly solved by designing the addition to the building around the stigmariian root system display. A mortar and rock foundation was sculptured by Lake and Chaplin to exactly fit under the contour of the large fossil.

The display containing the stigmariian root system and a large colonial coral-like animal (*Stromatocentrum pustulosum*) is now complete in Lappin Hall. A mural painted by Allen Lake depicts examples of plant and animal life as the fossil indicate they have existed through the last 600 million years of earth history. The "Strom" is placed in front of its pictured sequence, again demonstrating the time of its occurrence. Swamp life of the coal-producing period can be seen above the stigmariian.

Proceeding to the right, the age of the great dinosaurs is indicated along with the variations in plant life of the time. Finally, the age of the mammals with modern plant and animal life is shown at the far right. The entire sequence was originally sketched on a six foot panel of graph paper. The plan to fill the available wall space in the central corridor of Lappin Hall was designed to make each inch of the mural represent one-and-a-half million years of total time.

Various carefully detailed studies have been made on the fossils. When the stigmarian root system was originally dug out of its encompassing matrix, certain problems came into being. The rarity of such a perfect specimen demanded that it be housed inside. This minimized deterioration of the specimen and facilitated close examination and study of the fossil.

As a result of examinations and studies of the stigmarian root system, three papers have been delivered to the Kentucky Academy of Science over the past four years. One paper gave the initial description and indicated the paleoecology of the stratum from which the system was removed.

A second paper gave an account of the mathematical regularity of the branching characteristics the plant possessed. Since the typical primitive dichotomous branching was employed by the organism in question, development of the parts became mathematically predictable.

A third paper given on the spore structure found in the system. The spores were separated from the organic materials by a long boiling process, spread on glass slides and photographed microscopically. The results of these microfossils were as significant if not as obviously spectacular as the entire stigmarian system.

A great deal of effort and research is connected with the geological display in Lappin Hall. "Morehead State University is privileged to have a stigmarian fossil of this size and character on display in our science and mathematic facilities," said Dean W.C. Simpson, School of Science and Mathematics.

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DR. MARY NORTHCUTT DIRECTS
MOREHEAD STATE UNIVERSITY HEAD START PROGRAM

Morehead State University is currently conducting twenty-two Head Start programs in nineteen counties throughout the Eastern Kentucky region. Working in cooperation with the Office of Economic Opportunity, the programs are designed to enrich the back ground of culturally different children through a pre-school program.

The goal of the program is to provide experiences and concepts necessary of achievement in school. Many children express a timidity toward entrance into school based upon environmental experiences. Head Start provides a program of activities to overcome this fear by enabling the student to achieve success. Through the enrichment program the child develops concepts that are necessary for achievement on a level more nearly equal to that of the peer group.

In addition to the regular Head Start programs throughout Eastern Kentucky, Rural Child Development Projects are operational in Elliott,

Morgan, Floyd and Magoffin counties. The Rural Child Development Projects are for three and four-year-olds. Teachers apply the same fundamental approach used in Head Start classes in individualizing instruction for first and second grade classes. The Follow Through Program of Pike County is designed as a continuation of the Head Start philosophy for first and second grade students.

One of the highlights of the year in the Head Start program is the annual workshop for teachers of the region at Morehead State University. The training of personnel is one of the chief functions of the University in the Head Start project. Dr. Mary Northcutt, Regional Training Officer of the Head Start Program, serves as a curriculum coordinator and liaison representative of the University. The workshops and orientation programs held at Morehead State University are presented to develop teaching skills in working with the Head Start child. Participants include teachers, teacher aids, social workers, social worker aids, cooks, bus drivers, directors, nurses and other public health officials.

The curriculum is designed to be a model kindergarten with the emphasis upon concept assimilation and social stimulation. Demonstration lessons are provided by the University through the guidance of the regional training officer, Dr. Northcutt. Teachers discuss and observe teaching techniques. Conversation, cleanliness, rhythm bands, motor skills, auditory discrimination, visual abilities, story time, field trips, and art projects are examples of the activities covered in a Head Start program for children.

"We feel that Morehead State University has made a significant contribution to the youth of Eastern Kentucky through the efforts of the Head Start program," said Dr. Morris Norfleet, Vice President of Research and Development. "Certainly the strength of our communities and Nation is dependent upon the educational development of America's young people. Head Start is giving the culturally different child the opportunities to share experiences that better prepare one to face the challenges of entrance into the public school."

The Head Start agenda is filled with various areas of responsibility to the Eastern Kentucky region. In addition to the workshops on the University campus, Dr. Northcutt supervises the regional programs, arranges parent meetings, coordinates the consultation program, advises in the area of curriculum development and provides referral services unavailable in the community.

"We have found Head Start not only to be of great value in preparing children for public school life but in addition, a program that stimulates the parents to place greater values on education," said Dr. Mary Northcutt, Regional Training Officer. She continued, "Many of our parents have decided to return to school themselves as a result of their involvement in the program. Several completed their high school educations while others enrolled in University classes."

Morehead State University serves eighteen counties through a summer

program while four full year projects are operational. The counties participating in the summer program include: Robertson, Mason, Fleming, Lewis, Bath, Rowan, Elliott, Johnson, Magoffin, Pikeville, Carter, Greenup, Boyd, Menifee, Morgan, Lawrence, Martin and Floyd. The full year participating programs include Pike County, Martin County, Paintsville, and University Breckinridge School.

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WEBB DIRECTS
PROJECT-UPWARD BOUND

Upward Bound is a pre-college preparatory program designed to generate the skills and motivation necessary for success in education beyond high school among young people from low-income backgrounds and inadequate secondary school preparation. It acts to remedy poor academic preparation and motivation in secondary school and thus increase a youngster's promise for acceptance and success in a college environment. Upward Bound is supported by the Office of Economic Opportunity, in Washington, D.C. There are a total of 300 institutions participating in the program in every state in the country serving over 25,000 students.

For the past two summers Project Upward Bound at Morehead State University has involved one hundred high school students. These students were selected from the following ten counties in Eastern Kentucky: Boyd, Bath, Carter, Elliott, Fleming, Greenup, Johnson, Mason, Morgan, and Rowan.

TEACHING IS A TEAM EFFORT

The teaching staff of Upward Bound is comprised of two-thirds secondary teachers and one-third University Staff. The University Staff participants are drawn from the academic schools involved in Upward Bound. Secondary teachers are drawn from the secondary school systems from which students are selected.

Upward Bound employs University students with comparable socio-economic backgrounds and from the same geographical areas in which the Upward Bound students are selected. These University students serve as Tutor-Counselors. They live in the dormitories with the Upward Bound Students during the summer program.

The summer program begins in the middle of June and runs through early August. During this time students attend classes in English, Speech, Social Studies, Fine Arts, Applied Sciences and Technology, Physical Education, and Personal living.

FIELD TRIPS ENRICH EXPERIENCES

In conjunction with in-class academics, several field trips are taken to provide the students with a wide range of experiences for cultural and social enrichment as well as the academics.

During the academic school year students are visited at home and at school by administrative staff, teaching staff, and tutor-counselors. Programs are presented in the schools by various departments in the University, e.g.; one-act plays by the University Speech & Drama Department, University Stage and Concert band presentations, and radio communication programs, concerts by the Upward Bound combo, made up of students and staff.

The students return to the University Campus each month for a program of academics and entertainment. The most recent return trips included an Art Presentation by Henry Glover, Head of the Art Department, and the group attended the Morehead State-Morris Harvey basketball game.

VOCATIONAL TRAINING IS STRESSED

"An attempt is made to present the students with a wide range of programs exposing them to the many opportunities in industry. Opportunities for vocational and industrial education are stressed to give the student who is not interested in attending college the opportunity to see what areas are available for him to pursue," according to Jack Webb, director of Upward Bound.

Upward Bound seeks to actively involve the secondary schools in the events of Upward Bound by campus participation, and to provide avenues to complement the academic curriculum of the secondary schools by sharing innovative materials and ideas that were developed by University and secondary teachers in the Upward Bound program.

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DR. BIGHAM PARTICIPATES IN MUSIC EDUCATION ASSOCIATION PANEL DISCUSSION

Dr. William Bigham participated in a panel discussion at the convention of the Kentucky Music Educators' Association in Lexington, January 9-11. The panel will discuss the topic: "Music Education Research in the Next Ten Years."

Mr. Jerry Weakley, graduate assistant in music education, presented a paper at the same convention entitled: "The Influence of Janissary Music on Selected Compositions of Ludwig van Beethoven."

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NEWS BRIEFS

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EDUCATION TO LOBBY FOR SCIENCE MEASURE

State university and state college lobbyists are expected to make a strong push in the coming 91st Congress for a bill introduced in the last Congress by Rep. George Miller (D.-Calif.). The measure would provide direct institutional grants in the sciences, with a formula taking into account degrees in education qualifying recipients to teach in the sciences. The bill also would set up a National University Science Council composed of representatives from such lobbying groups as the American Association of State Colleges and Universities.

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NEW G.I. BILL BROADENS VETERAN'S BENEFITS

A bill from Congress has been signed into law broadening educational benefits for veterans and extending benefits for the first time to widows of G.I.s.

The new G.I. Bill permits veterans to receive up to 36 months of schooling and other benefits for as little as 18 months of service. It also gives educational aid of \$130 a month for full-time college attendance to wives of servicemen killed on duty and to wives of G.I.s who have suffered a 100 per cent, service-connected disability.

Lyndon B. Johnson said the new law opened college doors for 250,000 women. He recalled that when the original G.I. Bill was passed in 1944 it was considered "a reward for military service but now the G.I. is looked on as an educational measure providing "one of the very best investments for the future of the country." Nearly 800,000 G.I.s are expected to be discharged in 1969, approximately 100,000 of them Negroes.

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COMPUTER TALKS BACK

Hal, the talking computer in the movie "2001--A Space Odyssey," may not be as far from reality as the date in the title predicts. The Triangle Universities Computation Center in North Carolina has an IBM System/360 Model 75 computer which has a "conversational mode" developed into it.

This means the network users can hold two-way talks with Model 75 via typewriter--ask a question and get an immediate answer.

The computer network, jointly established two years ago by Duke University, the University of North Carolina, and North Carolina State under a grant from the National Science Foundation, is now being incorporated into the daily workload of 35 other colleges and universities in North Carolina. At its peak the computer is expected to handle as many as 3,000 jobs a day. Students merely translate (program) their data and instructions into any one of the many languages the computer understands. Most of these languages--for example versions of PL/I, FORTRAN, COBOL and ALGOL-- consist primarily of commonly used English words and phrases and mathematical symbols. Once programed, data and instructions enter into the Model 75 through the keyboards of typewriter-like terminals or are punched into cards for further transmission by terminal card readers. The computer is capable of simultaneously accepting entries from a wide variety of terminals, then stacking them in intermediate storage areas, analyzing them, answering them in groups, and storing them again until the lines are free to send them back.

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OEO ANNOUNCES FISCAL '69 PROGRAM ALLOCATIONS

With a sharp, new emphasis on programs geared to recruit, train and hire the hard core unemployed, OEO earlier this month released its dollar allocations for specific programs.

Out of the \$1.948 billion approved by Congress last October, \$937 million has been allocated to employment programs, compared to the \$807 million obligated last fiscal year. The largest increase is for the JOBS Program, operated by the National Alliance of Business men, in cooperation with the government (specifically OEO and Labor). JOBS was allocated \$162 million, an increase of \$92 million of \$70 million last fiscal year. This allocation to JOBS provides for 70,000 employment slots, approved by the Bureau of the Budget.

Other OEO programs in fiscal 1969 will continue at more or less existing levels, with CEP (Concentrated Employment), Special Impact, out-of-school Neighborhood Youth Corps, Mainstream, summer NYC and New Careers showing slight increases. A greater investment will be made in programs that serve the elderly poor.

Job Corps and Upward Bound are being allotted slightly less money this year than last, and allocations for Head Start remain the same. The Head Start Follow Through program, however, jumps from \$15 to \$30 million. Here is a partial comparison of OEO obligations for Fiscal years 67, 68 and 69:

PROGRAM	FY 67	FY 68	FY 69 (in millions)
Work and training includes:	\$779	\$807	\$937
Out-of-School	148	96	130
Operation Mainstream	26	22	41
In-School	69	59	46
Summer	133	144	125
Job Corps	209	282	280
New Careers	17	8	19
Concentrated Employment	49	74	83
JOBS	--	60	152
DOL Support	11	18	20
Special Impact	7	20	22
Work Experience	100	44	10
Foster Grandparents	10	10	9
Community Action Includes:	\$806	\$864	\$931
Head Start	349	318	318
Follow Through	--	15	30
Comp. Health Centers	51	33	60
Family planning	4	9	13
Emer. Food/medical	10	13	17
Legal Services	25	36	42
Senior opportunity	--	3	4
Local initiative	278	321	332
Support	61	84	85
Upward Bound	28	32	30
Migrants	33	25	37
VISTA	26	29	32
General Administration	14	14	15
Unobligated	4	7	--

DUBAR PUBLISHES PAPER

A paper titled, Paleocology of the James City Formation (Neogene), Neuse Estuary, North Carolina, by Jules R. DuBar and James F. Howard has been accepted by the Southeastern Section of the Geological Society of America for oral presentation.

The paper will be presented in Columbia, South Carolina, 11 April, 1969.

Dr. Howard is Assistant Professor of Geology at Ohio University. He did his master's work under my direction at the University of Houston, and received his Ph.D. degree from Indiana University. Dr. Howard has collaborated with DuBar on two earlier projects, and he is contributing a chapter to our symposium on the Neogene of the Atlantic Plain. His research interests are in micropaleontology.

The paper will be jointly published on the James City deposits later in the year.

PROJECT NEWGATE IS ANNOUNCED
BY DR. DORAN

Upward Bound, a war on poverty program designed to spur bright young people to attend college, is going to prison in Kentucky.

It's wrapped up in a new name and it's aimed at different youngsters, but its goals are much the same--to inspire young people with high potential to get further education.

The new program is called Project Newgate and it will be set up for 40 youths who are inmates at the federal youth center at Ashland, Kentucky.

The Ashland project will be directed by Morehead State University with a grant of \$100,042 from the Office of Economic Opportunity (OEO).

Kentucky's program will be patterned after a similar program pioneered almost two years ago at the Oregon State Penitentiary, which has reported promising results.

Inmates at the Ashland center are serving short-term sentences for minor felony offenses, generally involving such things as interstate mails or travel. The inmates are aged 16 to 21; the average school grade completed is seventh grade.

Forty of them, specially selected because of their college potential, will take part in Project Newgate. All are now working on high-school equivalency diplomas.

The project will include six hours of academic classwork each day plus another two hours to be devoted to special work on a subject or interest field of the student's choosing.

Teachers and tutor-counseling will be available evenings and on weekends to assist youngsters who need more help in their classwork.

Additionally, personal counseling will be a feature of the program in an effort to develop self-esteem.

The Kentucky program is the third to be granted funds by OEO. The first was in Oregon, although it began as an Upward Bound program. The second was in New Mexico, financed earlier this month.

OEO spokesmen call the success of the Oregon program "amazing thus far."

To date, according to OEO, only four of 41 participants released from prison have been accused of repeating crimes. Twenty-one others, however, are enrolled in college.

The remaining 16 released from the Oregon institution after Newgate training are either employed or involved in vocational training.

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PROBLEMS OF ELDERLY STUDIED AT MEETING

Older Americans must lead lives of "independence, purpose and dignity" if they are to remain happy, productive citizens, an expert on the elderly told a Morehead State University conference here Monday.

Dr. Gregor Ziemer, Program Director of the Institute of Lifetime Learning at Long Beach, California, said at a Morehead State University-sponsored conference on the aging that people need instruction on how to prepare for retirement and how to enjoy it.

The conference was the University's first step toward preparation of a regional plan for programs to serve older adults of Eastern Kentucky.

Operating in conjunction with the Kentucky Commission on the Aging, the university and local committees will develop means of providing education, health care, nutrition, housing, employment, recreation and legal services for senior citizens.

Eugene Hoke, Executive Director of the State Commission, said Morehead State University would become an education, research and formation center as part of the state master plan for dealing with problems of the elderly. The plan will be submitted to Governor Louie B. Nunn this spring.

Hoke said another center would be established at Western Kentucky University in Bowling Green. Both will be financed by state and federal funds.

Dr. Morris L. Norfleet, Morehead State University Vice President of Research and Development, said organizations of committees and the survey of needs of older citizens would be the next project.

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UNIVERSITY RECEIVES GRANT TO DEVELOP METHODS
OF TRAINING TEACHER AIDES

Morehead State University has been awarded a \$10,000 federal grant to develop a method of training teacher aides for the public schools.

The advance planning funds came from the U.S. Office of Education.

Project details are to be completed by May 1 for funding of the actual training program this summer.

If plans are approved, the project will involve in-service training of teacher aides in the Bath and Elliott County school systems. Also, teams of trainers from 30 Eastern Kentucky school districts would receive new instruction at Morehead State University during the 1969 summer session.

In addition, 100 persons would be trained as teacher aides during a one-week concentrated workshop to be conducted on the Morehead State University campus in August.

Project director is Dr. Milan B. Dady, Head of the Department of Elementary Education at Morehead State University.

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COMPUTER FEASIBILITY STUDY TASK FORCE HOLDS CAMPUS MEETING

Would it be feasible to establish a regional computer center for public schools and colleges in Eastern Kentucky?

A 28-member task force gathered at Morehead State University on Monday, February 3, as part of the search for an answer.

Starting with a luncheon session at noon, representatives of schools, business and government studied the concept of assisting educators in record-keeping and instruction with data processing equipment.

Two computer firms have assigned engineers to the study which is financed by a grant from the Appalachian Regional Commission. The investigation began last year.

The task force specifically wants to learn if public school systems and institutions of higher education need high-speed data processing and if such systems are economically feasible.

Suggested uses include registration of students, class scheduling, attendance, recordkeeping, cost accounting and computer-assisted classroom instruction.

The University Task Force includes: Jack Bizzel, Leonard Burkett, Bill Mahaney, George Stevens, and Morris Norfleet.

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"CREATIVITY AND THE DISADVANTAGED YOUTH" PRESENTED BY OPERATION TALENT SEARCH

Dr. E. Paul Torrance, an international expert on creativity in education, conducted a day-long seminar at Morehead State University for area high school counselors.

The session concerned creativity and disadvantaged youth. Sponsored by the University's "Operation Talent Search."

Dr. Torrance, Chairman of the Department of Educational Psychology at the University of Georgia, has published numerous books, magazine articles and booklets on his subject.

The seminar opened at 8:30 a.m. in the Operation Talent Search center in the School of Education Building. University faculty members joined the discussions at 2 p.m. under the direction of Frank Sandage.

Operation Talent Search is a federally-funded special project, covering 21 Eastern Kentucky counties and is involved in identifying disadvantaged high school graduates with exceptional academic potential, supplying them information and assistance on student aid and encouraging dropouts to return to school.

Operation Talent Search, as a follow-up to the Conference on Creativity, is currently preparing excerpts from the conference including the papers presented by Dr. Torrance to the group. This publication is available for general distribution for interested public school and University personnel. Individuals should contact Frank Sandage at Operation Talent Search on the 5th floor of the School of Education Building for copies of this publication.

A second outcome of the conference is the decision to publish a norm's manual for the Torrance Test of Creative Thinking for Appalachian Students.

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FIVE DAY SEMINAR CONDUCTED FOR AREA SOCIAL WORKERS

Morehead State University, in conjunction with the State Department of Economic Security, conducted a five day seminar for area social workers on Monday, January 20.

The purpose of the seminar, which began with registration at 9:00 a.m., January 20, in the Education Building, was to train social workers how to better counsel their clients.

Morehead State University faculty presented relevant information making the seminar participants more aware of the various opportunities available to the people whom they are counseling and to develop a better understanding of job entry requirements and an understanding of how to apply counseling techniques.

Social workers from 11 Eastern Kentucky Counties were invited to participate in the seminar, which lasted through January 24.

Counties represented in the seminar were: Boyd, Bourbon, Fayette, Fleming, Jessamine, Lewis, Mason, Montgomery, Morgan, Rowan, and Scott.

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ARTS AND HUMANITIES RESEARCH
GRANTS AND APPLICATIONS

NATURE AND
PURPOSE OF
PROGRAM

This program uses allocations from various authorizations to support research activities designed to improve education in the arts and humanities at all levels. Support may also be used for research to improve formal programs offered by community, art, music, theatre, and dance groups, and by museums, cultural centers, and arts councils.

WHO CAN APPLY
AND
HOW TO APPLY

Universities, colleges, state education agencies, local school districts, individuals, nonprofit institutions, and private companies are eligible to participate in the program. Application is made by submission of a proposal which describes the activity to be undertaken and the staff and cost for carrying it out. Proposals are evaluated according to educational significance, soundness of design or operational plan, adequacy of staff and facilities, and economic efficiency. Most of the available support is out of allocations for cooperative research activities.

FOR
INFORMATION
CONTACT

Arts and Humanities Program
Bureau of Research
U.S. Office of Education
Washington, D.C. 20202

PRINTED
INFORMATION
AVAILABLE

Office of Education Support for Research and Related Activities
The Arts and the Poor: New Challenge for Educators, OE-37016
Office of Education Support for the Arts and Humanities, OE-33049

AUTHORIZING
LEGISLATION

Cooperative Research Act, P.L. 83-531, as amended by P.L. 89-10 (Elementary and Secondary Education Act of 1965), Title IV (79 Stat 44-20 U.S.C. 331); National Arts and Humanities Act of 1965, P.L. 89-209 (79 Stat 845).

ADMINISTERING
AGENCY

U.S. Department of Health, Education, and Welfare
Office of Education

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* Dear Colleagues: *
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* Enclosed within this volume of the Research News is a special *
* section which may be of interest to several of you who are *
* currently working in the areas described in the leaflets. One *
* of the attempts of the Research News is to bring to you the *
* latest information in relation to research and development pro- *
* grams and opportunities for funding in these areas. You will *
* see three sheets -- one entitled "Arts and Humanities Research," *
* "Library Research and Development," and "Vocational Educational *
* Research and Training." These three sheets should be self-ex- *
* planatory about what is available. If you desire further infor- *
* mation on these specific programs, please call my office at these *
* extentions: 276, 277, 281. *
*
* Morris L. Norfleet *
* Vice President *
* Research and Development *
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* MLN:ls *
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VOCATIONAL EDUCATION RESEARCH AND TRAINING
GRANTS AND APPLICATIONS

NATURE AND
PURPOSE OF
PROGRAM

This program supports research and development to provide young people with the basic knowledge, skills, and personal characteristics necessary to assure successful work careers. Emphasis is on the needs of individuals from economically depressed situations. Supported activities include State Research Coordinating Units in vocational education, institutes to upgrade the capabilities of vocational education teachers and administrators, and a variety of research and development efforts ranging from pilot studies to comprehensive research and development centers.

WHO CAN APPLY
AND
HOW TO APPLY

Colleges and universities, state education agencies, public or nonprofit private research agencies, and local education institutions are eligible to participate. Application is made by submission of a standard formal proposal, which is evaluated according to educational significance, soundness of design or operational plan, adequacy of staff and facilities, and economic efficiency.

FOR
INFORMATION
CONTACT

Division of Comprehensive and Vocational Education Research
Bureau of Research
U.S. Office of Education
Washington, D.C. 20202

PRINTED
INFORMATION
AVAILABLE

Office of Education
Support for Research and Related Activities, OE-12025A
New Directions in Vocational Education, OE-80047
What We Need to Know about Educational Manpower, OE-58014
Manpower Research: Inventory for Fiscal Years 1966 and 1967,
OE-12036

AUTHORIZING
LEGISLATION

Vocational Education Act of 1963, P.L. 88-210, Part A, Section 4(c), 77 Stat 405--20 U.S.C. 35c(c).

ADMINISTERING
AGENCY

U.S. Department of Health, Education, and Welfare
Office of Education

LIBRARY RESEARCH AND DEVELOPMENT
GRANTS AND APPLICATION

<p>NATURE AND PURPOSE OF PROGRAM</p>	<p>This program provides for research and demonstration projects to improve libraries and training in librarianship. Support may be used for studies to determine the characteristics and needs of users, to develop new techniques, systems, and equipment for improved services, to improve the training of library personnel, and to disseminate information derived from library research and demonstrations.</p>
<p>WHO CAN APPLY AND HOW TO APPLY</p>	<p>Grants and contacts for research and demonstration projects are available to institutions of higher education and other public or private agencies, and organizations. Proposals follow a standard application format and are evaluated according to educational significance, soundness of operational plan, adequacy of personnel and facilities, and economic efficiency.</p>
<p>FOR INFORMATION CONTACT</p>	<p>Library and Information Sciences Research Program Bureau of Research U.S. Office of Education Washington, D.C. 20202</p>
<p>PRINTED INFORMATION AVAILABLE</p>	<p><u>Library and Information Sciences Research Program, OE-15063</u></p>
<p>AUTHORIZING LEGISLATION</p>	<p>P.L. 89-329 (Higher Education Act of 1965), Title II, Part B 79 Stat 1228</p>
<p>ADMINISTERING AGENCY</p>	<p>U.S. Department of Health, Education, and Welfare Office of Education</p>

RESEARCH NEWS

The Research News is the official publication of the Research and Development Center of Morehead State University. Content of the Research News is designed to inform the staff of the University concerning stories, events and announcements relevant to higher education and research.

Morris L. Norfleet, Vice President
Research and Development

Editor: George Stevens