PERORT RESUMES

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SCIENCE EDUCATION INFORMATION ANALYSIS CENTER NEWSLETTER.

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THE PRINCIPAL FOCUS OF THIS NEWSLETTER IS PROVIDING A DIRECTORY OF OUTDOOR EDUCATION PROGRAMS IN THE UNITED STATES. THE INFORMATION IS DIRECTED AT SCHOOLS OR ORGANIZATIONS PLANNING TO DEVELOP SUCH PROGRAMS. THE ENTRIES ARE LISTED ALPHABETICALLY BY STATE. EACH ENTRY CONTAINS (1) THE NAME OF THE PERSON TO CONTACT FOR ADDITIONAL INFORMATION, (2) THE ADDRESS OF THE PROJECT, AND (3) A BRIEF DESCRIPTION OF EACH PROJECT. ALSO PROVIDED ARE INFORMATION ON (1) THE OFFICE OF EDUCATION PUBLICATION "RESEARCH IN EDUCATION" (RIE), AND (2) THE ERIC DOCUMENT REPRODUCTION SERVICE. THIS DOCUMENT IS ALSO AVAILABLE FROM THE ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, 1460 WEST LANE AVENUE, COLUMBUS, OHIO 43221. (DS)



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CENTER COMMENTS

In SEIAC Newsletter 2 some of the important agencies which assist the practitioner or researcher who seeks information in the area of science education were described. Mail received at this Center and other individual reports indicate that many teachers and other persons were previously unaware of these services and that they are not presently aware of two of the basic services provided by the ERIC system, Research in Education and the ERIC Document Reproduction Service. In this newsletter these two services will be described, and addresses for obtaining more information concerning these services will be provided.

During the past several months we have received many requests for descriptions of outdoor education projects and requests for names of persons directing such projects. This interest reflects both the awareness of the need for such programs as well as the decisions by many school districts to proceed to develop outdoor education programs and facilities. The staff of this ERIC Center has reviewed the literature concerning such programs and has compiled a listing of outdoor education programs. The list in this newsletter provides examples of various kinds of programs distributed throughout the United States. A brief description is provided for each project.

RESEARCH IN EDUCATION

In Newsletter 2 the role of various information agencies in bridging the gap between research and practice was identified and several agencies engaged in this activity were listed. With this goal in mind-providing information to improve the quality of education in the United States—the Office of Education established Research in Education (RIE). Contained in this periodical are descriptions of documents which concern all areas of education. Published monthly, RIE contains materials supplied by all ERIC Information Analysis Centers. Each issue contains report and project resumes. The report resumes are indexed according to the author, the institution sponsoring the report. Project

reports are indexed according to sponsoring institution and subject. Each individual resume entry contains complete citations, an abstract of the contents, and a listing of the important terms. Moreover, each entry will indicate whether the text of the original document is purchasable on microfiche or hardcopy from the ERIC Document Reproduction Services (EDRS). If the material is not available from EDRS, the address of publisher as well as the cost of the document usually will be listed. In any event, the teacher or researcher can gain access to the text of the original document.

Subscriptions to RIE cost \$11.00 per year within the territorial limits of the United States. For information concerning this publication contact the Superintendent of Documents, Government Printing Office, Washington D. C. 20402

ERIC DOCUMENT REPRODUCTION SERVICE

Many of the various information agencies described in Newsletter 2 provide brief abstracts or annotations of current literature and in so doing, keep the researcher and practitioner abreast of ongoing research in a particular area. However, there will inevitably be the time when the researcher must refer to the original text of a particular document. If this is the case, the researcher will probably avail himself of the services of the ERIC Document Reproduction Service (EDRS). Established by the Office of Education to promote the flow of information in the field of education, the service provides reproductions of many documents at a minimal cost to the researcher. Reproductions are either on microfiche, a form of microfilm, or on hardcopy, a paper copy similar to the product of the Xerox-process. The prices of hardcopy for individual titles are twelve cents for the first page and four cents for each additional page. The pricing schedule for microfiche has recently been revised. The current price is 8.4 cents per fiche for standing orders and 25 cents per fiche for individual titles. This service is provided by The National Cash Register Company. For a reproduction of a document or for information concerning a document, contact EDRS, The National Cash Register Company, 4936 Fairmont Avenue, Bethesda, Maryland 20014



OUTDOOR EDUCATION PROGRAM DESCRIPTIONS

Outdoor education programs have received considerable attention during the last several years and interest in establishing new programs in this area is continuing. The SEIAC staff has compiled this directory of outdoor education programs to provide information for schools or organizations planning to develop such programs. Entries are listed alphabetically by states. Each entry contains the name of the person to contact for additional information, the address of the project, and a brief description of each project.

ARKANSAS

El Dorado

Multi-Media Instructional Center James M. Riley, Coordinator 1115 West Hillsboro El Dorado, Arkansas 71730

A multi-media instructional center including an outdoor living laboratory is being planned. The outdoor laboratory will include an extensive collection of native plants of the Southwest and an amphitheater for group meetings.

CALIFORNIA

Fresno

Central California Laboratory for Learning-Extension Harold L. Coles, County Superintendent of Schools 2314 Mariposa Street Fresno, California 93721

A three-week summer outdoor program to acquaint sixth graders with the ecological resources of the region was planned. The students were to spend one week in coastal areas, one week in mountain-forest areas, and one week exploring a metropolitan urban area.

Napa

Experimental Forest
J. Win Payne, Superintendent
Napa Valley Unified School District
1750 First Street
Napa, California 94558

Science students will use an experimental forest for research with potential school dropouts studying basic subjects and procedures applicable to forest work. A curriculum core will be designed to lead regular students to an understanding of various aspects of natural science.

Sacramento

Superior California Educational Resources Agency Blaine Wishart, Executive Director 1854 Fulton Avenue Sacramento, California 95825

Plans are underway for science centers which would provide field and laboratory experiences in natural history and the sciences, use mobile laboratory units and natural areas, expand a local junior museum, and develop a conservation camp.

San Andreas

Conservation, Recreation and Outdoor Science School (Project CROSS) Charles R. Baker, Director Pupil Personnel Service and School Psychologist P. O. Box 518 San Andreas, California 95249

A vocational school for potential dropouts and the noncollege bound is being designed for eleventh and twelfth grade students. Experiences in conservation, recreation, and outdoor sciences will be included.

San Lorenzo

Natural History Museum and Research Center Wesley D. Gordon, Coordinator of Science San Lorenzo Unified School District 15510 Usher Street San Lorenzo, California 94580

A natural history museum and research center are being planned. Students will do research on a real-life level, studying such unsolved ecological problems as local conservation needs, movements along a geological fault, and recovery of fossil vertebrates.

Santa Ana

A Marine Pilot Program Grant
Mr. F. A. Grunefelder
Orange County Superintendent of
Schools Office
1104 West Eighth Street
Santa Ana, California



A program in marine studies is being conducted. A model floating marine field training laboratory is being used to teach secondary school students about the area's major resource, the sea.

Stockton

Northern San Joaquin Valley Counties Supplementary Education Center Gaylord A. Nelson 222 East Weber Avenue Stockton, California 95202

A center is being planned to serve the educational and cultural needs of students. Special facilities being considered to improve science and conservation studies include a spaceatorium, mobile laboratories, and an outdoor science and conservation laboratory.

COLORADO

Alamosa

Cooperative Summer School Camp Roy G. Brubacher, Executive Director San Luis Valley Board of Cooperative Services Alamosa, Colorado 81101

A six-county cooperative summer school camp designed to serve gifted, retarded, and educationally and culturally deprived school children is being planned. Programs related to broad curricular needs, including emphases in drama, recreational outdoor living, and a science camp for the gifted, are projected.

Alamosa

Cooperative Summer School Camp Roy G. Brubacher, Consultant Boards of Cooperative Services Adams State College Alamosa, Colorado 81101

More than ten individual camps were operated for students from six counties in Colorado. The camps included one for the physically handicapped and another for children with learning handicaps. Other camps conducted programs in art, drama, geology, biology, music, and international relations.

Commerce City

An Action-Oriented Curriculum to Improve Motivation of High School Boys John G. Stuart, Superintendent Adams County School District 14 4720 East 69th Avenue Commerce City, Colorado 80022

A year-round program will be designed to reduce highdelinquency, absenteeism, and high dropout rates among high school boys. Curriculum changes in science, vocational education, and other areas will be incorporated in outdoor programs emphasizing community service.

CONNECTICUT

Avon

Talcott Ridge Science Center for
Student Involvement
Avon Board of Education
Donald P. LaSalle, Science Coordinator
Avon Junior-Senior High School
West Avon Road
Avon, Connecticut

A mountaintop science center, including a planetarium, observatory, weather station, and seismograph, serve all school levels in programs of instruction and research.

DELAWARE

Greenwood

Pilot Nature Center Program
C. Fred Graef, Chief School Officer
Greenwood Consolidated School, No. 91
Greenwood, Delaware 19950

A nature center, an interior court with shrubs, ponds, and trees, is being planned to serve as a focus for all natural science activities in grades 1-12.

Newark

Outdoor Laboratory
Wilmer E. Shue, Superintendent of Schools
83 East Main Street
Newark, Delaware 19711



An outdoor education laboratory will be developed in a 40-acre park to enrich the science curriculum in grades 1-12. The project site will be developed, and inservice education will be provided for teachers.

FLORIDA

Lake City

Trace-3 Rivers Activities Center for Education Buford H. Galloway Superintendent of Public Instruction Columbia County Board of Public Instruction P. O. Box 1148 Lake City, Florida 32055

An activities center designed to serve all the students in a six-county area will be utilized to provide an integrated program of physical education and music. An outdoor museum will make use of the abundant natural and historical resources of the area.

Pensacola

Escambia-Santa Rosa Humanities
Curriculum Center
James E. Hall
Superintendent of Public Instruction
P. O. Box 1470
Pensacola, Florida 32502

A humanities curriculum development center is being planned to serve students in grades K-12. Included is an outdoor biology laboratory, a solarium, an aquarium, and facilities for inservice education and curriculum development.

Perry

Resource-Use Outdoor Education Center Alan E. Hart. Superintendent of Public Instruction Taylor County Board of Public Instruction P. O. Box 509 Perry. Florida 32347

A center for instruction in conservation and natural resources serves students and teachers from six counties. A proposed forestry complex will include a forestry museum, camping facilities, and nature trails. Conferences, teacher inservice education sessions, and camping are conducted on school weekends and during summers.

Sarasota

Sarasota County Educational
Enrichment Centers
Dr. Thomas W. Gulford
Superintendent of Public Instruction
2418 Halton Street
Sarasota, Florida

A four-county educational service and enrichment center, with objectives related to the total curriculum, is being planned. Projected facilities for the out-of-doors phase of the program include a marine research and teaching laboratory, a mobile field laboratory, an earth-space laboratory, a teaching greenhouse, ponds, and a wildlife campsite.

GEORGIA

Clarkston

Fernbank Science Center Dr. Lewis Shelton De Kalb College 555 N. Indian Creek Road Clarkston, Georgia

A science center includes acres of virgin forest, a planetarium, an observatory, a natural history museum, a greenhouse, research facilities and a science laboratory. The center serves more than 70,000 students as well as numerous other residents in the community. A career center is designed to encourage students to enter the scientific and technological professions.

IDAHO

American Falls

Program of Outdoor Education--A Cultural and Educational Summer Program for Entering Seventh Grade Pupils in the Twenty-two Southern Counties of Idaho William Thomas, District Superintendent 827 Fort Hall Avenue American Falls, Idaho 83211

An outdoor education program is designed to help seventh graders entering junior high school to make the transition from elementary school. Activities include science, physical education, history and experiences in community living.

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Coeur d'Alene

Program of Outdoor Education S. Clay Coy Superintendent of Schools School District #271 118 North Seventh Street Coeur d'Alene, Idaho 83814

A cultural and educational summer program for seventh grade pupils is being planned. The program has broad objectives, is being planned by a committee with varied interests, and will include such specialized instruction as nature study.

ILLINOIS

Crystal Lake

A School-Community Outdoor Education Project Corbyn Hamby, Superintendent School District No. 47 27 North Main Street Crystal Lake, Illinois 60014

An outdoor instructional center, including a mobile laboratory, is being designed to offer science instruction in a natural outdoor setting. An inservice and curriculum development facility is planned also.

Dekalb

Regional Natural Resource Education and Demonstration Center Beverly H. Southern Littlejohn School Dekalb, Illinois 60115

A 55-acre outdoor lab and resource center will be used for science and social studies programs in natural resource and conservation education. Sites will be developed for such uses as field trips, nature trails, scientific observation and study, and small farm operations.

Marion

Regional Cooperative Outdoor Education Program Orland Stanley, Superintendent of Schools Community Unit School District No. 2 1410 West Hendrickson Street Marion, Illinois 62959

A program of outdoor education includes science, mathematics, art, and conservation activities for children in grades K-6. Two mobile units equipped with instructional materials will be used in the program.

Palatine

E. S. Castor, Superintendent Community Consolidated School District 15 Washington Court Palatine, Illinois 60067

Plans are being developed for a farm-outdoor center which will serve such curricular areas as economics, local history, farming, ecology, conservation, local flora and fauna, and mathematics.

INDIANA

Gary

Deep River Outdoor Education Center Lee R. Gilbert, Superintendent Community School Corporation 620 East 10th Place Gary, Indiana 46402

An outdoor education center provides facilities where students may participate in camping and other activities to supplement the regular curriculum. Cultural and educational enrichment opportunities will be provided students who may not have experienced outdoor activities.

IOWA

Cedar Rapids

Summer Outdoor Education Project S. W. Wiley, Superintendent of Schools College Community Schools R. R. #2 Cedar Rapids, Iowa 52404

A summer outdoor education program has been designed for students in grades 7-12 to provide instruction in art, mathematics, humanities, science, and physical education.

KANSAS

Topeka

Planning for Outdoor Education Frank Colaw, Superintendent of Schools Unified School District, #345 1124 West Lyman Road Topeka, Kansas 66601



An outdoor camping program to serve students in grades 1-12 is planned to supplement the regular academic program during the school year. The program also will provide both educational and recreational activities during the summer.

LOUISIANA

Benton

Northwest Louisiana Supplementary Educational Center and Services--Curriculum Improvement in Science:

Emmett Cope, Superintendent P. O. Box 218 Benton, Louisiana 71006

A comprehensive science curriculum will be developed including an earth-space science course, independent study programs, and such special facilities as an observatory, a planetarium, a greenhouse, and indoor laboratories. A professional laboratory is being planned for use in teacher inservice education.

St. Martinville

St. Martin Parish School Board Outdoor Educational Center L. H. Boulet, Superintendent 305 Washington Street St. Martinville, Louisiana 70582

A nature center serves as an outdoor laboratory for biology groups and as a research center for individual students working on projects. Facilities include a nature trail, a greenhouse, a weather station, an exhibit center, and numerous woods and ponds.

MAINE

South Windham

Outdoor Laboratory of Natural Environmental Science Stanley W. Wright, Superintendent of Schools RFD #1 South Windham, Maine 04082

An outdoor area is used as a laboratory for environmental science and conservation studies for all grades.

MARYLAND

Clarksville

A Multiphase Learning Experience Center John E. Yingling Superintendent of Schools Board of Education of Howard County Clarksville, Maryland 21209

A comprehensive program is being planned for all children in the county. Plans include outdoor education programs, inservice education, and the use of new instructional aids and materials.

Elkton

Out-of-Doors, A Summer Science Program for Elementary and Secondary School Students Robert A. Gibson, Superintendent of Schools Cecil County Board of Education Booth Street Center Elkton, Maryland 21921

This is a six-week summer course for selected scienceoriented students in grades 1-12. Emphasis will be on individualized study of Maryland geography, geology, plant and animal life, and conservation.

Oakland

Indoor-Outdoor Science Center
Willard L. Hawkins, Superintendent
Board of Education of Garrett County
Oakland, Maryland 21550

Some 5,000 elementary and secondary students are being served in this program which incorporates the use of both indoor and outdoor facilities. Nature studies and camping experiences are provided by the outdoor center.

MASSACHUSETTS

Falmouth

Oceanographic Education Center Mr. Harry S. Merson Superintendent of Schools Falmouth Public Schools - Box 729 Falmouth, Massachusetts 02541

An oceanographic educational center is being planned to stimulate interest in oceanography and a pilot project will be conducted to improve the science curriculum and to produce oceanographic teaching aids. The



curriculum will include conservation and natural resources.

Lowell

Environmental Arts and Science Center Mr. Vincent M. McCartin, Superintendent Lowell Public Schools City Hall Lowell, Massachusetts

Plans are being developed for innovative educational programs in conservation and natural science. Curriculum development and teacher training programs will be emphasized.

Lowell

Lowell Environmental Arts and Science Center Vincent M. McCartin, Superintendent of Schools City Hall Lowell, Massachusetts 01852

An outdoor education center, including a 1000-acre forest, serves students in grades 1-12 in a program of field trips, school camps, and outdoor education. Teachers are provided inservice education by a professional staff.

Scituate

Project Lighthouse
Wilburn A. Shannon, Superintendent
Cudworth Road
Scituate, Massachusetts 02066

Oceanography, marine biology, and other marine science programs will be scheduled at nearby land and sea laboratories.

MICHIGAN

Charlotte

An Outdoor Education--Conservation and Rural Life Regional Center Wendell H. Anderson, County Superintendent Eaton County Intermediate Board of Education 117 West Harris Street Charlotte, Michigan

The center will be used as an outdoor education, conservation, and rural life laboratory. There will be facilities for the preservice and inservice education of teachers.

Coldwater

Exploring Nature's Classroom James A. Miller, Principal Lincoln School Coldwater Community Schools Coldwater, Michigan 49036

A year-round outdoor education program is being established. Such facilities as a weather station, beehives, grassy waterways, nature trails, and desert, field, and swamp habitats will be used for the study of conservation, geology, and other natural sciences.

Constantine

Outdoor Education Laboratory Clayton Wilson, Superintendent of Schools Constantine Public Schools Constantine, Michigan 49042

An outdoor education laboratory is being developed for students in grades 1-12. The program will emphasize the fundamental principles of conservation and civic responsibility for natural resources.

Grand Haven

Integrating Outdoor Education with a
Flexible Academic-Vocational Curriculum
R. Von Volkinburg, Superintendent of Schools
Grand Haven City Schools
734 Park Street
Grand Haven, Michigan 49417

An outdoor education program will be integrated with the regular curriculum, and vocational emphases will be developed. Outdoor programs for elementary students will include field trips, wildlife study, and school site beautification.

MISSOURI

Edina

Biological and Soil Conservation Laboratory Richard M. Kimble Knox County R-I School District P. O. Box 403 Edina, Missouri 63527

An outdoor laboratory with a lake, terraces, waterways and an area where natural trees, shrubs, and grasses will grow will be developed. Programs in science will be provided for students in grades 1-12.



Higginsville

Outdoor Laboratory in Field Ecology and
Establishment of an Ecological Museum
Lewis W. Hobson, Superintendent
Higginsville School
2116 Main Street
Higginsville, Missouri 64037

A pilot program will be established to enrich the high school curriculum. The program will include field trips and will utilize an outdoor laboratory, guest lecturers, and an ecological museum.

University City

An Outdoor Natural Science Laboratory in University City, Missouri Martin B. Garrison, Superintendent of Schools 640 Harvard Avenue University City, Missouri 63130

An outdoor natural science laboratory is being planned to provide city children with outdoor experiences directed toward the problem-solving approach. Teachers will be provided inservice training.

MONTANA

Alberton

Outdoor School in Conservation Donald A. King, Director of Outdoor School Alberton, Montana

A seven-day residential conservation camp for sixth and seventh graders will provide field work and other instruction in conservation education.

Billings

Billings Extended School Year--Grades 1-12 William A. Serrette, Administrative Assistant 101 Tenth Street - West Billings, Montana

The school year is to be extended seven weeks during the summer to offer remedial and enrichment courses for all students, grades 1-12, who want or need such courses. Emphasis will be on innovative learning techniques. Field biology is one of the many courses offered.

Deer Lodge

Summer Institute in Field Ecology and Field Geology for High School Students Norman Jacobson, Instructor Powell County High School Deer Lodge, Montana

A four-week summer field program will be operated for scientifically curious students in grades 7-12 to study the various life zones, from grassland to alpine tundra, and the geology of the region.

Great Falls

Planning Project for a Pilot Study in Conservation Education Margaret E. Adams, Elementary Consultant P. O. Box 2669 Great Falls, Montana

A pilot project to determine the feasibility of establishing a permanent conservation education program will be planned. Activities will involve camping and field studies and the use of telelectures and mobile units.

Missoula

Proposal to Establish and Maintain
A Conservational and Wildlife Study Area
Harold G. Knapp
Missoula County High School
South Avenue and Bancroft
Missoula, Montana 59801

An outdoor conservation laboratory is being developed at a site with a variety of habitats accessible during all seasons. Program objectives include having science classes obtain experiences in biotic and abiotic communities, and enabling students to design and carry out experiments and original studies.

NEW HAMPSHIRE

Keene

Nature Study Center
Mr. Austin G. Frain
Monadnock Regional School District
Swanzey Center
Keene, New Hampshire 03431

An outdoor area is used by the schools for the study of nature, biology, earth science, art, natural resources, photography, and agriculture.



NEW JERSEY

Bordentown

3-D School Leonard Grant 3-D School Program Director 323 Ward Avenue Bordentown, New Jersey 08505

A pilot program will be formulated for an out-of-door school. All seventh and eighth grade students, from both public and non-public schools, will live and study for one week in this outdoor setting.

Glassboro

Conservation and Environmental Science in Southern New Jersey V. Eugene Vivian, Science Department Chairman Glassboro State College Glassboro, New Jersey 08028

An outdoor conservation and environmental science program is being planned to serve students in grades 1-12, from eight counties. Student teachers will be included in inservice programs.

Kearny

Learning Camp
Edmund L. Tink
Superintendent of Schools
100 Davis Avenue
Kearny, New Jersey 07032

An outdoor camp will provide fifth grade children in public and non-public schools with experiences in outdoor living, nature study, and conservation.

Linden

Outdoor Education Emanuel Bedrick Superintendent of Schools Board of Education Linden, New Jersey

An outdoor education center will provide year-round facilities for children in grades six, seven, and eight. Students will study nature and learn about human and natural interrelationships. These activities will be correlated with all the regular curricular subjects.

Middletown

Pilot Supplementary Elementary Science Interpretive Program Richard Cole 63 Tindall Road Middletown, New Jersey

A former Coast Guard Station serves as a daycamp teaching facility for the study by fourth graders of the geology, land and marine organisms, and ecological relationships of a barrier beach.

Newark

Outdoor Conservation Education Center Franklyn Titus, Acting Superintendent 31 Green Street Newark, New Jersey 07102

A plan to assess ESEA Title III outdoor education projects presently in operation in the state will be designed and executed. A statewide plan for optimum utilization of New Jersey's facilities for outdoor education should emerge.

Newton

Newton Outdoor Education Project Benton P. Cummings Halsted Street School Halsted Street Newton, New Jersey

An outdoor education program offers recreation, field studies, camping, conservation education, inservice education and research opportunities. The project also includes a materials center, a mobile unit, and the area serves as a wildlife and nature preserve.

NEW MEXICO

Albuquerque

Outdoor Education Center Robert L. Chisholm Superintendent of Schools Albuquerque, New Mexico

A range of curriculum experiences in the outdoors, including camping, conservation, zoology and ecology, is being planned for students and parents.



NEW YORK

Brooklyn

High Rock Nature Conservation Center George O. Pratt, Jr., Director High Rock Nature Conservation Center Nevada Avenue Staten Island, New York

A year-round program of nature study and conservation education is conducted for students from public and non-public elementary schools. The need for conservation of natural resources and for the interrelationship between these resources and planned community growth is stressed.

New Paltz

Mid-Hudson Regional Supplementary
Educational Center's: (PINE) Projects
in Imaginative Nature Education
Dr. Raymond Kenyon, Director
Mid-Hudson School Study Council
Research and Development Project
New Paltz, New York

Year-round indoor-outdoor educational programs will be conducted at a 125-acre nature center to supplement the natural science curriculum. Conservation courses in water, soils, wildlife, forests and minerals will be offered to pre-school through twelfth-grade students.

NORTH CAROLINA

Wentworth

Diversified Outdoor Education Allan Lewis, Superintendent of Schools Rockingham County Schools Wentworth, North Carolina 27375

A residential outdoor education program for elementary school children, and a nature and conservation study program for all children are provided. Special emphasis will be developed for children with reading deficiencies. A camping program is also provided for the mentally retarded.

NORTH DAKOTA

Bismarck

Travelab-Horizons Unlimited--A Pilot Program Robert P. Miller, Superintendent of Schools 400 Avenue East Bismarck, North Dakota 58501

A bus equipped with a small laboratory, workspace, and audiovisual facilities is used for extended excursions for older students and shorter field trips for younger ones. Instruction is given enroute and on the site. This program has broad curricular emphases, including geography and biology.

OHIO

Akron

Junior Explorers--Learning Centers
(Summer Creative Learning Centers for
Elementary School Pupils)
Mrs. Theresa Haney, Director Special
Resources and Experimental Programs
Akron Public Schools
70 North Broadway
Akron, Ohio 44308

Seven centers have been established for summer training of potentially creative students in grades 4-6. Students are encouraged to learn about natural science through independent study. Features such as cave formations, burial mounds, canals, railroads and fossils are emphasized.

Mentor

Indoor-Outdoor Educational Recreational
Planning Program
Exempted Village School District
8979 Mentor Avenue
Mentor, Ohio 44060

An indoor-outdoor educational-recreational program is being designed to include activities related to all school subject areas, K-12, including the sciences and conservation.

Ontario

Mohican School in the Out-of-Doors D. D. Rummel, Superintendent Springfield Local Schools Ontario, Ohio



Learning experiences in conservation, natural science, astronomy and democratic living are provided in an outdoor setting for sixth grade students who live at the camping center for one week. The staff is doing some exploratory teaching, employing a team-teaching approach.

Willoughby

Pollution, Life, and Earth Science Enrichment Willoughby-Eastlake City School District 38106 Euclid Avenue Willoughby, Ohio 44094

A program is designed for the study of life science, earth science, and the problems of pollution. The Holden Arboretum is used as a supplemental outdoor center.

Worthington

Conservation Education and Outdoor
Education Laboratory
Mr. H. C. McCord, Superintendent
Worthington Exempted Village Schools
50 East Granville Road
Worthington, Ohio

A conservation and outdoor education program and laboratory are being planned to serve elementary and secondary students from two counties. The laboratory will serve as a research and demonstration center.

OKLAHOMA

Oklahoma City

Developing and Utilizing Cultural Resources James L. Casey, Director of Federal Projects 900 North Klein Oklahoma City, Oklahoma 73106

Cultural experiences include field trips and programs in drama, science, music, and literature. Field trips include visits to a science and arts foundation, a zoo, and a local museum. Special use is made of the zoo facilities for studies in science.

OREGON

Portland

Regional Outdoor Education Program
Errol C. Rees, Superintendent
Multnomah County Intermediate Education District
P. O. Box 9172
Portland, Oregon 97216

A program will be developed so that eventually each of the some 15,000 children in the public and private schools of metropolitan Portland may have the educational experiences of living outdoors for five days in the spring or fall.

Portland

Regional Outdoor Education Projection Program
Erroll C. Rees, Superintendent
Multnomah County Intermediate Education District
P. O. Box 9172
Portland; Oregon 97216

A long-range outdoor education program is provided for sixth grade students from five counties. The program is designed to help students develop an interest in natural resources, while living at a camp.

PENNSYLVANIA

Bellefonte

Central Pennsylvania Outdoor Education Project T. Ellwood Sonen, Superintendent Centre County Board of Education Courthouse Bellefonte, Pennsylvania 16923

An outdoor program, featuring direct experiences in both resident and non-resident activities, is provided for children in grades K-6. Teachers receive inservice education.

Duncansville

Charles S. Hertzog, President Appalachian Regional Instructional Materials Center Joint Committee 309 Columbus Avenue Cresson, Pennsylvania 16630

A pilot program in outdoor education employs a new curriculum in the natural and social sciences. The program is designed to help students achieve a greater



awareness of the interrelationships between natural resources, cultural and physical anthropology, and social development.

Erie

Hughes Brininger, Director of Secondary Education Millcreek Schools 3580 West 38th Street Erie, Pennsylvania 16506

A program, based on area resources, is being planned to provide a variety of activities and services for students in grades 1-12. Experiences projected include field trips, advanced summer courses in botany, local history, gardening, nature study, and experimental workshops for teachers.

Glenside

Science Center T. R. Frank, Principal Glenside-Weldon School 409 Easton Road Glenside, Pennsylvania

How to make effective use of a bird observatory and nature center as a 'living laboratory' for the study of natural sciences and conservation is the purpose of two projects.

Lima

Study to Determine the Educational
Potential of the Tyler Arboretum and
the Jeffords State Park
Dr. Stanley C. Campbell, Superintendent
Rose Tree Union School District
Box 188
Lima, Pennsylvania

Plans are being developed for the use of an arboretum and a state park for educational purposes, including field observation, conservation, experimental planting, bird census and study, practical horticulture, and teacher inservice education.

Philadelphia

Supplementary Educational Center and
Services Camping Program for Educationally
Deprived, Emotionally Disturbed Children
Dr. Jerry G. Miller, Director
Division of Special Education
School District of Philadelphia
Benjamin Franklin Parkway at 21st Street
Philadelphia, Pennsylvania

Special education services are being extended to provide 60 days of day and overnight camping to emotionally disturbed and educationally disadvantaged children, ages 5-1/2 to 9. The camping program is offered during the summer and on weekends during the school year.

University Park

Dr. Jerrold E. Elliott, Director Stone Valley Recreation Area The Pennsylvania State University University Park, Pennsylvania 16802

An outdoor program is being provided children in grades K-6 through direct experiences in resident and non-resident programs. One objective is to help children better understand the interrelationships of man and his environment. Teachers are to have an inservice program and a three-week summer workshop.

TENNESSEE

Memphis

E. C. Stimbert, Superintendent Memphis City Schools 2597 Avery Avenue Memphis, Tennessee 38112

A regional science center is being planned to provide science programs and enrichment activities for pupils from grades 1-16 and inservice education for teachers. Facilities and activities planned include mobile science units, an observatory and planetarium, a natural science museum, field trips, individual research, and long-range science projects in biology, chemistry and astronomy.

TEXAS

Corpus Christi

Coastal Bend Educational Project: Outdoor Education and Human Development W. H. Howard 2505 Waldron Road Corpus Christi, Texas

The purpose of this project is to organize centers where programs in outdoor education, human development, and conservation will be provided students K-12. Both current teachers and potential future teachers will help in the planning.



Freeport

Brazosport Education Extension Center Division of Instructional Services P. O. Drawer Z Freeport, Texas 77541

Planning is underway to raise the quality of instruction. Included is an extensive project in teacher inservice education. Facilities considered include a school demonstration center, an instructional resources center, a work center, an exhibit display center, and mobile exhibits. Specific programs considered for students involve local museums, outdoor programs, science centers and school camps.

Houston

Texas Gulf Coast Science Educational Resources Center Houston Independent School District 1300 Capitol Houston, Texas 77002

A Science Educational Resources Center serving 500,000 elementary and secondary school students is proposed. Some activities of the projected center include establishing procedures for scientific field trips, conducting inservice programs, and establishing a traveling museum.

New Braunfels

Educational Project for Natural Resources
Conservation
Max Wommack, County School Superintendent
Comak County Court House
New Braunfels, Texas 78130

A natural resources conservation program is being planned to provide demonstrations, educational exhibits, tours, teaching materials, and visual aids to portray the problems related to conservation of range, wildlife, soil, water, and forestry.

UTAH

American Fork

An Outdoor Educational Curriculum for All Seasons in Utah County Don W. Peterson, Superintendent Alpine School District 50 North Center American Fork, Utah 84003 National forestry, park, and conservation agencies are helping to plan a curriculum for grades K-12 that will include geology, problems of erosion and pollution, and study of lake, mountain, and desert areas.

American Fork

Outdoor Education Camp Dr. Stanley A. Leavitt Federal Program Director Alpine School District 50 North Center American Fork, Utah 84003

An outdoor education camp is being planned that will utilize Utah's mountainous terrain as a setting to increase student understanding of conservation and natural sciences. Procedures developed for organizing outdoor education programs will be made available to other interested school districts.

WASHINGTON

Seattle

Interdisciplinary Outdoor Education Program Edgar F. Neal, Specialist in Outdoor Education Shoreline School District No. 412 N. E. 158th and 20th Seattle, Washington 98155

Outdoor learning centers are being planned on underdeveloped land set aside by the state for educational purposes. Programs will be designed to help young people keep their sense of wonder about the natural world.

Seattle

Interdisciplinary Outdoor Education Program Edgar F. Neal, Specialist in Outdoor Education Shoreline School District No. 412 N. E. 158th and 20th Seattle, Washington 98155

School grounds are used for nature study. Students use a site on a salt water beach to develop nature trails and an area for biology, English, and art classes.



WISCONSIN

Stevens Point

Cooperative Work-Learn Conservation and Resource-Use Program Dr. Paul A. Yambert Wisconsin State University Stevens Point, Wisconsin 54481

Program will provide practical experiences in conservation education for children in grades 1-12 through a series of two-week summer field experiences. Program objectives center around encouraging student awareness of resource management. Projects will include stream repair, forest tree planting, live trapping of animals for research, and nature trail development.

WYOMING

Lander

Conservation Center of Creative Learning Jerry Ruzicka Ninth and Sweetwater Streets Lander, Wyoming 82520

An ecology-oriented center and workshop is being planned to improve the teaching of conservation for students in Wyoming and surrounding states.



ERIC Information Analysis Center for Science Education 1460 West Lane Avenue Columbus, Ohio 43221

