

DOCUMENT RESUME

ED 086 513

SE 017 103

AUTHOR Disinger, John F.; Lee, Beverly M.  
TITLE State Directories in Environmental Education, Volume  
III, U.S. Office of Education Regions IV and V.  
INSTITUTION ERIC Information Analysis Center for Science,  
Mathematics, and Environmental Education, Columbus,  
Ohio.  
SPONS AGENCY Office of Education (DHEW), Washington, D.C. Office  
of Environmental Education.  
PUB DATE Nov 73  
NOTE 185p.  
EDRS PRICE MF-\$0.65 HC-\$6.58  
DESCRIPTORS College Science; \*Directories; \*Educational Programs;  
\*Environmental Education; Human Resources;  
Instructional Materials; Programs; \*Resource  
Materials; Secondary School Science; \*State  
Programs

ABSTRACT

This compilation is one of a series produced through the combined efforts of the United States Office of Education/Environmental Education, coordinators for environmental education in the various states, and the ERIC Center for Science, Mathematics, and Environmental Education, in an attempt to collect and detail environmental education efforts throughout the nation. The series is assembled in geographical groupings, using combinations of the U.S. Office of Education regions. This third volume in the series includes Alabama, Florida, Georgia, Illinois, Indiana, Kentucky, Michigan, Minnesota, Mississippi, North Carolina, Ohio, South Carolina, Tennessee, Virgin Islands, and Wisconsin. Environmental education information from these states is provided under the following headings: State Environmental Education Contact; State Plan Activities; School Programs and Activities (or Environmental Education Programs Funded); University and College Programs and Activities; Groups and Agencies with Interest in Environmental Education, Resource Materials Available; and Possible Resource People. Related documents are SE 017 101, SE 017 102, SE 017 104, and SE 017 105. (JR)

ED 086513

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STATE DIRECTORIES IN ENVIRONMENTAL EDUCATION

based on information supplied by

The United States Office of Environmental Education

and

State Coordinators for Environmental Education

Coordinated by

John F. Disinger and Beverly M. Lee

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ERIC Information Analysis Center for  
Science, Mathematics, and Environmental Education  
400 Lincoln Tower  
The Ohio State University  
Columbus, Ohio 43210

November, 1973

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## PREFACE

This compilation is one of a series produced through the combined efforts of the United States Office of Education/Environmental Education (USOE/EE), coordinators for environmental education in the various states, and the ERIC Center for Science, Mathematics, and Environmental Education (ERIC/SMEAC), in an attempt to collect and detail environmental education efforts throughout the nation.

The compilation was begun in 1972 as part of a contract between USOE/EE and ERIC/SMEAC. Initial input was obtained from the files of the USOE/EE and assembled by Ms. Joan M. Nicholson, Ms. Catherine Barnett, and Mr. Andrew B. Rosenberg of that office, working under the direction of Mr. Paul Cromwell, USOE/EE, and Dr. John F. Disinger, ERIC/SMEAC.

Coordinators of environmental education at the state level were asked to review the information for their respective states in detail, and have made numerous additions, deletions, and other corrections. In cases where such a review was not obtained, information based on original 1972 data from USOE/EE has been utilized.

Because the field of environmental education is dynamic, many revisions have been necessary, and will continue to be so. Therefore, inaccuracies in this and other volumes in the series will generally reflect inability to keep up with change in the field, though doubtless other errors of both commission and omission will be noted. ERIC/SMEAC will appreciate any information regarding such errors, both to keep its own files updated and for future editions of these directories.

The series is assembled in geographical groupings, using combinations of the U. S. Office of Education regions, and is available only through Educational Document Reproduction Service (EDRS). Contents of each document are listed on the next page. Also noted for each entry is recentness of update information: entries not marked with asterisks have been updated since June 1, 1973; those marked by single asterisks were reviewed by state coordinators in late 1972 or early 1973; those marked by double asterisks have not been reviewed by state coordinators.

In addition to those named above, substantive assistance has been received from: George Lowe, USOE/EE; Robert W. Howe and Robert E. Roth, ERIC/SMEAC; Mrs. Robert L. Steiner and Mrs. Stanley L. Helgeson, typists; and coordinators for environmental education in the various states, as named within the individual entries.

John F. Disinger and Beverly M. Lee  
Coordinators

November, 1973

This publication was prepared pursuant to a contract with the National Institute of Education, United States Department of Health, Education, and Welfare. Contractors undertaking such projects under Government sponsorship are encouraged to express freely their judgment in professional and technical matters. Points of view or opinions do not, therefore, necessarily represent National Institute of Education position or policy.

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Volume III - USOE Regions IV and V

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North Dakota  
Oregon  
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Utah  
Washington  
Wyoming

\* Entry updated by state coordinator between September 1, 1972 and June 1, 1973.

\*\* No update information received from state coordinator; entry based on information supplied in Spring, 1972 by USOE/EE.

All other entries have been reviewed and updated by state coordinators for environmental education since June 1, 1973.

## ALABAMA

STATE E.E. CONTACT:

Miss Erline Curlee  
 Science Consultant  
 State Department of Education  
 State Office Building  
 Montgomery 36104  
 (205) 269-7504

STATE PLAN PROGRESS:

A proposal from the Alabama Environmental Quality Council was funded for FY 1972 by the Office of E.E./HEW. Chairman of the Council is John Bloomer; address of the Association is P.O. Box 11000, Montgomery, 36111.

COMPOSITION OF PLANNING GROUP:

JOHN W. BLOOMER, CHAIRMAN, The Alabama Environmental Quality Council; Chairman of the Board, The Alabama Environmental Quality Association; Managing Editor, The Birmingham News; American Society of Newspaper Editors; Program Advisory Committee for Southern Newspaper Publishers Association Foundation; Tri-Counties American Red Cross.

MARTHA MCINNIS, COORDINATOR, The Alabama Environmental Quality Council; Executive Vice President and Treasurer, The Alabama Environmental Quality Association; Director of Program Development, Alabama Farm Bureau Federation; President-Elect, Alabama Home Economic Association; United States Chamber of Commerce Agri-Business and Rural Affairs Committee; Vice President, Alabama Conference on Citizenship.

J. D. HAYS, PRESIDENT, The Alabama Environmental Quality Association; President, Alabama Farm Bureau Federation; Board of Directors, American Farm Bureau Federation; Board of Directors, State National Bank; President, Huntsville Real Estate Investment Trust; Chairman, Alabama Resource Development Committee; Vice Chairman and Director, Alabama 4-H Club Foundation; Member, Alabama Space Science Commission; Advisory Council, Alabama Community and Technical Services; Huntsville Industrial Expansion Committee.

HONORABLE PHIL H. SMITH, Alabama House of Representatives; Chairman, Legislative Council on Environmental Protection; Chairman of the House Committee on Agriculture; Chairman of the Board of Directors, Talladega County Farm Bureau.

DR. IRA L. MYERS, State Health Officer, Department of Public Health; President, Association of State and Territorial Health Officers; Chairman, Air Pollution Control Committee, Chairman, Alabama Water Improvement Board; Board of Directors, The Alabama Environmental Quality Association.

JAMES J. BRITTON, Vice President, Alabama State Chamber of Commerce; Alabama Historical Commission; Alabama Highway Users; Alabama Export Council; Natural Resources Commission of United States Chamber of Commerce.

LONNIE E. MARTIN, Vice President, Alabama Real Estate Association; Vice President, Alabama Council Association Executives.

TOMMY KIMBROUGH, President, Kimbrough and Associates Advertising, Inc.; Alabama Soft Drink Association; Montgomery Industrial Council; Chamber of Commerce; Montgomery Advertising Club; Board of Director, Sales and Marketing Exchange Club.

ARTHUR BECK, Chief Engineer and Director, Bureau of Environmental Health; American Water Works Association; American Society of Civil Engineers; American Public Health Association; Conference of State Sanitary Engineers; Federation of Sewage and Industrial Wastes Association and Harvard Public Health Alumni Association; Secretary and Chairman and National Director of the Alabama Mississippi Section of the American Water Works Association.

T. L. FAULKNER, State Director, Vocational Education; Past Chairman, State United States Department of Agriculture Council; Past Chairman, State Soil and Water Conservation Committee; Past Chairman, State Rural Resource Development Committee; Awarded "The Outstanding Service Citation" by National Vo Ag Teacher Association; Past Chairman, Alabama United States Department of Agriculture Rural Development Council.

ALFRED S. CHIPLEY, Director, Vector Control; Member of Pesticide Advisory Committee; Chairman, Region IV Vector Control Council.

WARNER FLOYD, Director, Alabama Historical Commission; Alabama Resources Development Committee; Alabama Bi-Centennial Commission; Alabama Conservancy; Public Relations Council of Alabama; Governor's Mansion Board of Directors.

MRS. BOB DICKSON, JR., South Central Alabama Girl Scouts; National Eco-Action Program.

ED PEPPERMAN, United States Brewers Association, Inc.; Board of Director, Keep Montgomery Beautiful, Inc.

MRS. CECIL LANGLEY, Board of Directors, The Alabama Environmental Quality Association; Board of Director, Alabama Farm Bureau Federation; State Women's Committee Chairman, Alabama Farm Bureau Federation; Chairman, Detention Home and Juvenile Probation Officers Committee; Member, County Business and Professional Women's Club; Talladega County Council for Children and Youth, Inc.

B. P. DILWORTH, Director, State Supervisor Vocational Agri-Business Education; Rural Development Committee; Resources Development Committee; Forestry Committee; State Soil and Water Conservation Committee; Alabama State Development Group.

CHARLES BURKE, United States Brewers Association, Inc.; Board of Director, Keep Montgomery Beautiful, Inc.

DR. LEROY BROWN, State Superintendent of Education; Ex-Officio member of all state colleges and universities; Trade College Authority; Wage Commission.

JOHN A. GARRETT, Director, Farmers Home Administration; Alabama Society for Crippled Children and Adults; Chamber of Commerce; Goodwill Industries.

JAMES W. HALL, Manager, Alabama Press Association; Alabama Safety Coordinating Committee; Governor's Jobs for Veterans Task Force Committee.

\* \* \* \* \*

Judge Winston Stewart, Director, Association of County Commissioners.

Troy Ingram, Supervisor Rural Sales, Alabama Power Company.

Mrs. James Durden, President, The Garden Clubs of Alabama, Inc.

Mrs. Dan Waite, Jr., President, Alabama Banker's Association.

William B. Lingle, State Conservationist, United States Department of Agriculture Soil Conservation Service.

Miss Ruth Stovall, Supervisor, Home Economics Division State Department of Education.

Dr. Worth Lanier, Chairman, Environmental Health Division, Cooperative Extension Division.

Mrs. Mary E. Coleman, Assistant Director of Women's Work, Cooperative Extension Service.

Hilton Watson, Vice President, Alabama Forest Products Association.

Jack Honeycutt, Sanitarian II, Bureau of Environmental Health.

B. J. Russell, Executive Director, Alabama Broadcasters Association.

Mrs. T. R. Scales, President, Alabama Federation of Women's Clubs.

Martin J. Darity, United States Department of Commerce.

Mrs. E. P. Terrell, Member of State Women's Committee for Alabama Farm Bureau Federation.

Mrs. Jackie Loyd, Jr., Member of State Women's Committee for Alabama Farm Bureau Federation.

Mrs. Melton Flowers, Member of the State Women's Committee for Alabama Farm Bureau Federation.

Mrs. Abner Barnes, Member of the State Women's Committee for Alabama Farm Bureau Federation.

Mrs. James Tolar, Jr., Member of the State Women's Committee for the Alabama Farm Bureau Federation.

Mrs. E. J. Hall, Member of the State Women's Committee for the Alabama Farm Bureau Federation.

Mrs. Oscar Jones, Member of the State Women's Committee for Alabama Farm Bureau Federation.

Robert D. Holloway, Public Relations Manager, Reynolds Metals Company.

Guerry Pruett, Highway Director, Alabama Highway Department.

Colonel W. L. Allen, Director, Public Safety.

Dr. Henry Orr, Professor, Department of Horticulture, Auburn University.

C. W. Moody, State Forester, Alabama Forestry Commission.

Professor Samuel P. Snow, Director, Urban and Regional Planning at Auburn University.

Bob Holt, Boy Scouts of America.

PROJECTIONS OF THE COUNCIL ARE:

Projecting to work with the State Department of Education in Environmental Education. The State Superintendent of Education is a member of the Education Interest Group on the Alabama Environmental Quality Council. Many of his staff will be involved in the Regional Education Interest Groups. (The Alabama State Board of Education has applied for funding under the Environmental Education Act-Public Law 91-516.)

Developing procedures, in conjunction with the United States Department of Agriculture, to initiate their Environmental Thrust Program. Alabama will cooperate with the United States Department of Agriculture in developing a Pilot Program for Environmental Thrust that will be used as a model in other states.

Pursuing a request from Auburn University and the University of Alabama that will establish an internship program for graduate students in Environmental Planning and Management. Such a program will be designed to take advantage of the expertise available from graduate students (under the direction of their major professor). It is projected that additional expertise can be made available by having University faculty as consultants to communities. This will require an adjustment in the professor's teaching load.

Members of the Alabama Environmental Council will direct the development of a Master Plan based chiefly on information collected over the state from a net work of Six Regional Environmental Quality Council Meetings. Specific topics to be addressed at these meetings are:

The environmental education needs for Alabama (what the state's environmental problems are, what are their causes, and what role environmental education should play in their solution).

Resources (programs, written and audio-visual materials, curricula, facilities and personnel) that are being, or could be, utilized for education purposes.

Educational programs and activities, both in school and community-based, that might help meet the environmental needs of geographical areas and the state as a whole.

Roles and responsibilities related to environmental education that the various public and private entities in Alabama (business, formal education, government, community service organizations, lab, or etc.) should assume in carrying out, supporting and promoting.

The establishment on the State Environmental Quality Council of eleven interest groups and a designated Interest Coordinator. Each group will represent a major segment of the Alabama population. The Special Interest Groups are:

- Youth
- Education
- Communication Media
- Conservation
- Community Improvement
- Civic/Service Clubs
- City/County/State Government
- Health
- Business/Industry
- Rural
- Legislation

The establishment of Six Regional Environmental Quality Councils (corresponding to the regions within the state already established by the Soil Conservation Service). These Councils will provide a means of communication between groups and individuals through membership on the Council.

The establishment of Regional Interest Groups with an appointed Interest Coordinator for each group. (Regional Interest Coordinators work with State Interest Coordinators.)

The sponsorship of regional workshops and seminars in each of the geographical areas.

The conducting of a cross-section survey to determine the environmental perceptions, knowledge and concern of the citizens of Alabama. This survey will be conducted by volunteers in selected communities around the state.

PUBLIC SCHOOL ACTIVITIES:

Environmental Problems (Elementary and Junior High School)

Mr. Zollie Reed

P.O. Box 9036 Crestline Heights Branch

Mountain Brook, Alabama 35213

Environmental Science in the Middle School

Mr. Robert Bumpus

Decatur City Schools

Decatur, Alabama 35601

Outdoor Education

Mr. Vincent Brocato

Mobile County Schools, P.O. Box 1327

Mobile, Alabama 36601

UNIVERSITY AND COLLEGE ACTIVITIES:

Graduate Training Program in Environmental Engineering

Dr. G. P. Whittle, Professor of Civil & Mineral Engineering

University of Alabama at Tuscaloosa

Tuscaloosa, Alabama 35486

(205) 348-6010

University of Alabama Arboretum

Dr. Frederick C. Gabrielson

Box 1927

Tuscaloosa, Alabama 35486

A Noise Abatement Program

Dr. Charles E. Hickman

Electrical Engineering Department

School of Engineering, Auburn

Auburn, Alabama

Southern Union State Jr. College

Joanne Jordan

Wadley, Alabama 36276

(205) 395-2211

Funded for FY 1972 by Office of E.E./HEW. The project involves development of written supplemental curriculum materials for the elementary level. Furthermore, this college is conducting an Environmental Awareness Program at Environmental Study Areas at Bald Rock, Hackneyville and Horseshoe Bend. The college students are trained in environmental teaching methods, who in turn lead children from the public schools in their outdoor learning experience.

Center for Environmental Studies  
 University of Alabama  
 Huntsville, Alabama

In 1971, the state legislature appropriated three-quarters of a million dollars to the University of Alabama to establish a Center for Environmental Studies. This center is intended to become the state's center for Environmental Research. Hopefully, the efforts of the center will spread to education.

Human Resource Development Center  
 Director: T. J. Pinnock  
 Tuskegee Institute  
 Alabama 36088

Alabama Consortium for Development of Higher Education, Inc.  
 P.O. Box 338  
 Demopolis, Alabama 36732  
 Exec. Director: Dr. Lillian Manley  
 (205) 289-0177

The Consortium is an incorporated association of 7 institutions of higher education in Alabama which is committed to cooperation in a multiplicity of programs. It hopes to inventory and assess environmental education in ACDHE institutions, and from the results, project needed activities for improvement of E.E. programs in the 7 colleges and universities (Alabama A & M University, Huntingdon College, Judson College, Miles College, Stillman College, University of Alabama, University of Montevallo).

Center for Urban Studies  
 University of Alabama  
 Birmingham, Alabama  
 Director of Research: Robert Juster  
 (205) 934-3500

The Center has established a strong working relationship with the representatives of an adjoining urban community, which is a microcosm of the region in terms of environmental problems. The Center hopes a partnership between itself and the community will lead to an awareness of and implementing solutions for adverse environmental conditions.

A Student-originated study was done by:  
 Air and Water Pollution Control by the Textile Industry in the Southeast  
 Mr. Andrew C. Rucks  
 c/o Dr. Hal B. Pickle  
 School of Business  
 Auburn University  
 Auburn, Alabama 36830  
 (Presented report at December, 1971 AAAS meeting)

AGENCIES, GROUPS, ETC. WITH INTEREST IN E.E.:

Greene County Economic Development Commission Inc.  
P.O. Box 385  
Greene County, Alabama  
Exec. Director: Spiver Gordon  
(205) 372-3342

The Commission is interested in developing the awareness of Greene County residents and surrounding area to appreciate and deal with environmental changes brought about by industrialization.

Alabama Conservancy  
Charles Prigmore, President  
(Sociologist at University of Alabama, Tuscaloosa)

Alabama Forestry Commission

Alabama Department of Conservation and Natural Resources

Committee on Natural Resources for the Alabama League of Municipalities

Department of Public Health  
State Office Building  
Montgomery, Alabama 36104

Sierra Club  
Tuscaloosa, Alabama

Greater Birmingham Alliance to Stop Pollution Inc. (GASP)  
800 S. 20th St.  
Birmingham, Alabama 35205

Planned Parenthood League of Alabama  
1714 11th Ave.  
South Birmingham, Alabama 35205

Green Thumb Gardening  
Mr. Mel Wallace, Botanical Gardens  
Birmingham, Alabama 35213

State Council on E.E.  
Assists the State Department of Education in upgrading its curriculum and general approach to E.E. Current members of the Council are:

Miss Erline Curlee, Chairman, Science Consultant, State Department of Education,  
State Office Building, Montgomery, Alabama 36104

Mr. Arthur N. Beck, Chief Engineer and Director, Bureau of Environmental Health,  
State Department of Health, Montgomery, Alabama 36104

- Mr. Russell I. Berry, Social Studies Consultant, State Department of Education,  
State Office Building, Montgomery, Alabama 36104
- Dr. J. C. Blair, Director, Division of Instruction, State Department of Education,  
State Office Building, Montgomery, Alabama 36104
- Mr. Robert C. Boone, Specialist, Education Instruction Section, Department of  
Conservation, Administrative Building, Montgomery, Alabama 36104
- Mr. J. D. Couch, Science Consultant, State Department of Education, Jacksonville  
State University, Jacksonville, Alabama 36265
- Mrs. Marie Hendrix, Social Studies Consultant, State Department of Education,  
Jacksonville State University, Jacksonville, Alabama 36265
- Mr. W. A. Heustess, Coordinator, Basic Sciences Section, State Department of  
Education, State Office Building, Montgomery, Alabama 36104
- Dr. John W. Hill, Education Consultant, Division of Research and Higher Education,  
State Department of Education, State Office Building, Montgomery, Alabama 36104
- Dr. Ken Johnson, State Environmental Advisor, Alabama Development Office, State  
Office Building, Montgomery, Alabama 36104 (Now of University of Alabama in  
Huntsville)
- Mr. John Kirkpatrick, Division of Agricultural Chemistries, State Department of  
Agriculture, State Office Building, Montgomery, Alabama 36104
- Mrs. Vola Morris, Social Studies Consultant, State Department of Education, State  
Office Building, Montgomery, Alabama 36104
- Mrs. Robert Ortega, President, Montgomery Branch of American Association of  
University Women, Montgomery, Alabama 36111
- Mr. H. T. Williams, Chief, Bureau of Mines and Safety Inspection, Department of  
Industrial Relations, Birmingham, Alabama 35203
- Mr. W. T. Willis, Director, Division of Radiological Health and Air Pollution,  
State Department of Health, State Office Building, Montgomery, Alabama 36104
- Interpretive Nature Center  
Mrs. Robert R. Reid, Jr.  
2612 Mountain Brook Parkway  
Mountain Brook, Alabama 35223

POSSIBLE RESOURCE PERSONS:

Nancy Brunson  
Biology Instructor  
Enterprise State Jr. College  
Enterprise, Alabama 36330

Kulwant S. Chahal  
Research Associate  
Director Environmental Sciences &  
Professor of Environmental Sciences & Agronomy  
Carver Research Foundation  
Tuskegee Institute  
Tuskegee, Alabama 36088

Miss Erlene Curlee  
Science Consultant, State Department of Education and  
Chairman of Inter-Agency Council for Environmental Studies

Jimmy Hatten  
Biology Instructor  
Enterprise State Jr. College  
Enterprise, Alabama 36330  
(He has had extensive personal experience in dealing with environmental problems.)

James Henderson  
Coordinator, Environmental Quality Committee  
Professor of Biology & Director, Carver Research Foundation  
Tuskegee Institute  
Tuskegee, Alabama 36088

Kenneth Johnson  
Division of Graduate Program and Research  
Associate Director, Center for Environmental Studies  
University of Alabama  
Huntsville, Alabama

Claude Kelly  
Director of Conservation  
Department of Conservation  
Montgomery, Alabama 36104

Thomas Mulhern, Superintendent  
National Park Service  
Horseshoe Bend National Military Park  
Rt. 1, Box 63, Daviston 36256

Frederick Ordway  
University of Alabama  
Research Institute  
Division of Graduate Programs and Research  
Professor of Science & Technology Applications  
Huntsville, Alabama  
(Head of Science and Technology Applications and Evaluation Section - involved with broad studies of the application of space and other science and technology to industrial, environmental, and social progress, technology transfer, impact analysis, educational programs, and history of science and technology.)

## FLORIDA

STATE E.E. CONTACT:

C. Richard Tillis  
Consultant, Environmental Education  
Division of Elementary and Secondary Education  
Department of Education  
Tallahassee, Florida 32304  
(904) 599-5730

Mr. Tillis is the full time environmental education consultant for the State Department of Education. His responsibilities include leading and coordinating all of the state-wide programs. In addition, there is an Advisory Council for Science Education composed of people from the public and private sector who will recommend and formulate policies in different areas concerned with environmental education.

STATE PLAN ACTIVITIES:

In August 1970, a survey was conducted throughout the State to assess the various local environmental education programs. Five projects were chosen as outstanding examples of different approaches to studying the environment. From the evidence of the survey it was concluded that although many interesting programs were going on, there was no comprehensive school program to include the whole State. On the basis of this need, a master State Plan for Florida was devised and approved in the summer of 1971 to coordinate state-wide environmental education activities.

LEGISLATION:

The Florida Environmental Education Act has been effective since July 1, 1970.

SCHOOL PROGRAMS AND ACTIVITIES:

Dade County: The program involves implementation of an interdisciplinary approach in schools to environmental education, implementation of a training program for teachers to improve their knowledge and skills in this area, and establishing communication and cooperation between school and community on environmental issues. Elements of the program include a Marine Science Day Camp, outdoor education center, "South Florida Environmental Science Media Productions" - 52 videotapes, films, strips, audio-tapes, and accompanying learning activities packages, Ecology Guides, interdisciplinary, K-6, four themes: (a) survival and adaptation, (b) interaction and interdependence, (c) variety and pattern, (d) continuity and change; staff development courses (Marine and Land Ecology), bibliography of people and places important to environmental

studies, film and videotape of public relations releases and a course on ecology currently being taught in two high schools.

Center for Environmental Education - Brevard County: Established during the planning/pilot phase of the Title III program, "Broad Spectrum Environmental Education Project". It has a reference library, data files, and teacher resource publications.

Broward County: Interdisciplinary Environmental Education K-12.

Citrus County: Marine Science Station.

Duval County: Marine Science Education Center, Mayport.

Taylor County: Perry Outdoor Resource Use Center.

Palm Beach County: Pine Jog Environmental Teaching Center.

Lee County: Environmental Field Studies Program.

Orange County: Environmental Information Center.

"Nature's Classroom," Outdoor Education Center  
 Hillsborough County  
 Henry Verges, Principal  
 P.O. Box 3408  
 Tampa, Florida 33601

"Nature's Classroom" is a school in a cypress swamp named by a principal and eight teachers where each day 250 sixth graders from Tampa go through a series of multi-disciplinary education activities designed to introduce them to the plants, trees, and animals of south central Florida. The setting for the outdoor school is spectacular; there is a nature zoo, and everyone is extremely enthusiastic about the school. Model City monies have gone for building dorms for inner city children to stay overnight.

The Science Center of Pinellas County, Inc.  
 Charles Gibbs, Director  
 7701 22nd Avenue North  
 St. Petersburg, Florida 33710  
 (813) 342-8691

Through a series of scheduled orientations, the Center gives every school child in the county a chance "to become acquainted with the mysteries of science and nature." Its approach to science education is "Learn By Doing." Students are required "to learn science by their own use of the tools of science. The end products are young scientists working under adult supervision on individual research projects they themselves have proposed as a result of studies in their own fields of interest." Field trips are a vital part of the program. Students search as far as Crystal River and the Florida Keys. The Center grounds and gardens provide a closer to home study site for plants, flowers, insects, soils, and animals. The Center offers spring, fall and summer workshops. There is no rigid sequential structure. Students from grades 4-12 can attend any or all sessions. Students have use of several thousand square feet of well equipped lab space, a rooftop observatory, planetarium, 200 seat auditorium machine shop, 6,000 volume scientific library, animal and marine life, a converted yacht, a 25 ft. boat, and display space for completed projects.

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Dean Cooper  
 University of South Florida  
 Tampa, Florida

Many separate relevant courses offered from all traditional departments. Currently an integrated multi-disciplinary program is being organized and plans for an environmental major and graduate work in this area are being prepared.

University of Florida  
Gainesville, Florida

Graduates work in Environmental Engineering Sciences leading to degrees of Master of English, Master of Science in Engineering, Engineer, and Dr. of Philosophy. Students may specialize in air resources, water supply and water pollution control, solid waste control, environmental biology and water chemistry.

The following students undertook projects and made reports on them at the December, 1971 meeting of the American Association for the Advancement of Science:

Mr. Paul Carlson  
c/o Dr. John B. Morrill  
Chairman, Department of Natural Sciences  
New College  
Sarasota, Florida 33578

Ecological Effects of Spoil Islands Created by Dredging in Estuaries along the West Coast of Florida.

Mr. Sam S. Hill, III  
c/o Dr. J. Richard Warren  
Director, Continuing Education  
Jacksonville University  
Jacksonville, Florida 32211

Design of an Urban Transportation System for Jacksonville, Florida.

Mr. Patrick H. Neale  
c/o Dr. Carl H. Snyder  
Department of Chemistry  
University of Miami  
Coral Gables, Florida 33124

Chemical and Biological Relationships in Deep Water Areas of the Everglades.

Louis V. Wilcox, Jr.  
Fahkahatchee Environmental Studies Center  
Remuda Ranch  
P.O. Box 188  
Goodland, Florida 33933

The Center is sponsored by Cedar Crest College, Allenton, Pennsylvania; it is "dedicated to education and research in the subtropical environment of Southwest Florida."

Rodney F. Allen  
Florida State University  
426 Hull Drive  
Tallahassee, Florida 32306

Mr. Allen is project director of activities leading to the development of supplemental curriculum materials for the secondary level, focusing on environmental ethics, with FY72 monies under the E.E. Act. Telephone (904) 599-2318 or 599-2430.

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Department of Air and Water Pollution Control  
315 S. Calhoun Street  
Tallahassee, Florida 32301

Department of Natural Resources  
Larson Building  
Gaines Street at Monroe  
Tallahassee, Florida 32304

Tallahassee Junior Museum  
Tallahassee, Florida

SAVE, Inc.  
(Suncoast Active Volunteers for Ecology)

Crystal Lake E.E. Center  
School Board of Alachua County

Alachua County Conservation Council

Environmental Systems Engineering Institute  
Dr. Martin Wanielista, Director  
Florida Technological University  
Box 25000  
Alafaya Trail  
Orlando, Florida 32816

Jacksonville Can Reclamation Center  
Reynolds Metals Company  
Manager: Steven Robertson  
Jacksonville, Florida

Environmental Information Center  
Florida Conservation Foundation, Inc.  
William Partington, Director  
935 Orange Avenue  
Winter Park, Florida 32789  
(315) 644-5377

South Florida Regional Planning Council  
P.O. Box 8083  
Coral Gables, Florida 33124

Conservation 70's, Incorporated  
Loring Lovell, Executive Director  
319 S. Monroe, Dorian Building  
Tallahassee, Florida 32304  
(904) 224-9992

E.E. Center  
William Hammond  
2266 2nd Street  
Fort Myers, Florida 33901

Environmental Information Center  
P.O. Box 922  
Sarasota, Florida 33578

Member of Ecology Center Communications Council

Florida Defenders of the Environment, Inc.  
Box 12063  
Gainesville, Florida 32601

An organization of scientists, economists, attorneys, and other concerned citizens who are encouraging research and compiling and disseminating information on the environmental impact of a Cross-Florida barge canal.

Southeastern Environment Council, Inc.  
 P.O. Box 31278  
 Yukon Branch  
 Jacksonville, Florida 32230

A non-profit but not tax-exempt corporation. Programs include distribution of educational materials and legal action to promote better enforcement of existing laws and the creation of new ones necessary for a quality environment.

Institution of Sanitation Management  
 1710 Drew Street  
 Clearwater, Florida 33515  
 Harold Rowe, Executive Director  
 (813) 446-1674

The institution is interested in supplying career information about environmental sanitation management to young people.

Roy Bazire  
 Sanibel-Captiva Conservation Foundation  
 P.O. Box 25  
 Sanibel, Florida 33957  
 (813) 472-1149

Received FY72 monies under the E.E. Act to develop supplemental curriculum materials based on an "Environmental Quality Index" for Southwest Florida.

Dr. R. F. Mines  
 National Association for Environmental Education  
 11011 S.W. 104th Street  
 Miami, Florida 33156

Received FY72 monies under the E.E. Act for the development of curriculum materials for the secondary level.

Hal Scott  
 Florida Audubon Society  
 P. O. Drawer 7  
 Maitland, Florida 32751

Received FY72 monies for the training of community members to introduce environmental education in their schools and communities.

Florida Conservation Foundation  
 c/o William M. Partington  
 935 Orange Avenue  
 Winter Park, Florida 32789  
 (305) 644-5377

The environmental information center for the Florida Conservation Foundation is the central clearinghouse for all environmental news throughout Florida. An almost weekly publication, "Tallahassee Report," contains valuable information on governmental activities affecting the environment. "ENFO," their newsletter, is concerned with specific issues such as Big Cypress protection. In addition to these education services, the Center also seeks grants for research surveys on different factors affecting the Florida environment. Florida Conservation Foundation receives its funds from foundations or from agencies for particular projects.

Central and Southern Florida Flood Control District  
 P. O. Box 1671  
 West Palm Beach, Florida 33402

The District publishes the Water Management Bulletin.

Roy Hyatt, Director  
 Environmental Sensitivity Center  
 2501 Hayne Street, North  
 Pensacola, Florida 32503

The Center hopes to relocate at the old L & N terminal, Wright Street. The new museum will tell the story of natural history of the area.

Florida Institute of Oceanography

Has information concerning water pollution and problems created by dredge and fill operations.

Center for Estuarine Studies  
 Dr. George G. Kelley, Chairman  
 University of Jacksonville  
 Jacksonville, Florida 32211  
 (904) 744-3950

The Center seeks to provide for a colony of scholars who will endeavor to close the gap of knowledge which exists between fresh and salt water life and to provide knowledge which will aid in conservation as well as to document the effect of alterations of the environment upon this life.

Division of Applied Ecology  
 Center for Urban Studies, University of Miami  
 P.O. Box 8002  
 Coral Gables, Florida 33124  
 (315) 284-4011  
 Director: Arthur Marshall

Environmental Action Group  
 Alan Sandler  
 Tampa, Florida  
 (904) 392-1635

RESOURCE MATERIALS AVAILABLE:

Teachers Curriculum Guide

Field Ecology

Brevard County Schools  
 Dr. Wayne White, Superintendent  
 (Sponsored by Dr. Clair Bemiss, Director, Center for E.E.)

Supplemental Resource Guide in E.E. for Elementary Teachers.

Brevard County Schools  
 Dr. Wayne White, Superintendent  
 1971

Sources of Reference Materials and Audio Visual Aids for E. E.  
 From: Interdisciplinary E.E. K-12 Project, School Board of Broward  
 County, an ESEA Title III Planning Project based at Nova High School,  
 Broward County. 160 pp. 1971, revised 1972. Includes: sources of  
 information, free materials, catalogs and promotional material; perio-  
 dicals, audiovisual reference materials, bibliography.

POSSIBLE RESOURCE PEOPLE:

Dr. Clair Bemiss, Director  
 Center for E.E.  
 Brevard County Schools

Frank Bouwsma  
 Office of Instructional Resources  
 Miami-Dade Junior College  
 11011 S.W. 104 Street  
 Miami, Florida

He has worked extensively with the development of a curriculum, Man and His Environment.

Lynwood Cox  
Brevard Junior College  
Florida

He is familiar with the Man and His Environment curriculum developed at Miami-Dade.

Harriet Everhard  
Science Consultant  
Dade County School System  
Miami, Florida

Under the leadership of Harriet Everhard, the entire school system (K-12) has been integrating E.E. concepts. Selected sixth grade elementary students spend two days at an E.E. center located at Crandon Park, Key Biscayne, actively discovering ecological concepts. Children are also taken to Everglades National Park for the same program.

Robert M. Johnson  
Florida State University  
Tallahassee, Florida

R. F. Mines  
National Association for E.E.  
11011 S.W. 104th Street  
Miami, Florida 33756  
(305) 274-1381

Barbara Stromberg  
Monroe Jr. High School  
4716 Montgomery Avenue  
Tampa, Florida 33616

She is a Junior high teacher who has used the Group for E.E. curriculum materials from Philadelphia, Pennsylvania.

Hal W. Walter  
Fahkahatchee Environmental Studies Center  
Goodland, Florida

Ruth Weiner  
Florida International University  
Miami, Florida 33144

William Fryar  
E.E. Specialist  
Duval County School Board  
Jacksonville, Florida 32202  
(904) 355-8871

Andrew Dzurik  
Assistant Professor of Urban and Regional Planning  
Florida State University  
Tallahassee, Florida

Edward McClure  
Associate Professor and Chairman  
Department of Urban and Regional Planning  
Florida State University  
Tallahassee, Florida

Dr. Felicia West  
Assistant Professor of Education  
University of Florida  
Gainesville, Florida

Expertise in geology and field studies.

Paul Becht, teacher  
P. K. Yonge Laboratory School  
Gainesville, Florida

Nancy Griffin  
P. K. Yonge Laboratory School  
Gainesville, Florida

Palmer Craig  
Audubon Society and Sperry-Rand Inc.  
Gainesville, Florida

Dr. Robert Lindquist  
Assistant Professor  
University of Florida and Alachua County Conservation Council  
Gainesville, Florida

Dr. John Bevis  
Associate Professor, Environmental Engineering  
University of Florida  
Gainesville, Florida

Robert Bledsoe  
Assistant Professor of Political Science  
Florida Technological University  
Orlando, Florida 32816

Expertise in political and social aspects and repercussions of ecological problems.

James Frank  
Assistant Professor of Urban and Regional Planning  
Florida State University  
Tallahassee, Florida

He is a licensed Professional Planner in New Jersey and a full member of the American Institute of Planners.

Dr. Thomas Gadsden  
Assistant Professor of Education  
University of Florida  
Gainesville, Florida

Expertise in physics, integrated science and education.

Virginia Allen, Instructor  
P. K. Yonge Laboratory School  
Gainesville, Florida

Charles Hoffman, Assistant Professor of Anthropology  
University of Florida and Alachua County Historical Society  
Gainesville, Florida

Thomas Allen  
Gainesville, Florida

Specialist in underwater photography and scuba diving.

Wilburn Farrell  
Alachua County Agricultural Agent

T. A. Andrews  
Alachua County Agricultural Agent

Dan Kossoff  
WJCT-TV  
Jacksonville, Florida

Director of Community Involvement. Producer-Director of the program  
"Come to Florida. . . Before It's Gone."

## GEORGIA

STATE E.E. CONTACT:

Mr. Dallas Stewart  
 Science Coordinator  
 State Department of Education  
 Office of Instructional Services  
 State Office Building  
 Atlanta, Georgia 30334  
 (404) 656-2576

PUBLIC SCHOOL ACTIVITIES:

Jarvis Barnes  
 Atlanta Public Schools  
 224 Central Avenue, S.W.  
 Atlanta, Georgia 30303

Barnes is project director of activities leading to the development of a process curriculum for the secondary level with FY 1972 E.E. Act monies.

Cobb County School District  
 Elizabeth Elementary School  
 Charles Hardy  
 (404) 428-2379

In February 1971, an interagency group was formed to coordinate E.E. activities in the Cobb county area. This group includes: educators from the Cobb County School system, Kennesaw Jr. College, Georgia State; members of the Youth Museum and representatives from the National Park Service. It also involves interested people from the U.S. Forest Service, the Soil Conservation Service, Fernbank Science Center and the Atlanta Department of Parks and Recreation.

Fernbank Science Center  
 156 Heaton Park Drive, N.E.  
 Atlanta, Georgia 30307  
 Director: Lewis S. Shelton

Council Member of the American Association for Advancement of Science (AAAS) Commission in Science Education. "Conceived and operated by the DeKalb County School System, it is designed to foster appreciation of our natural heritage and the enhancement of scientific literacy. Thru many educational programs based on current scientific frontiers, Fernbank has bridged the gap between the forefronts of scientific knowledge and more than 350,000 students and adults who visit the Center annually." Its teaching resources include a planetarium, a weather satellite tracking station equipped meteorological lab, an electron microscope lab, the largest observatory in the southeastern region, a nuclear science lab, a science reference library, and a spacious exhibit area. The Center also utilizes its 180 acres of natural areas as a living laboratory to insure insight and understanding in the natural sciences. Plans call for addition of a major museum,

an inland marine aquarium, botanical gardens, and a large greenhouse area. The Center was awarded FY 1972 monies under the E.E. Act for the development of environmental education programs in grades K-12.

UNIVERSITIES & COLLEGE ACTIVITIES:

Cooperative Extension Service  
University of Georgia

They can provide personnel for program planning and development, subject matter unit coordinators, instruction staff, resource personnel, printed material for use as text and teaching aids.

Institute of Natural Resources  
University of Georgia  
203 Forestry Bldg.  
Athens, Georgia 30601  
(404) 542-1555

Intelligent use and expanded development of natural resources are the primary concerns of the Institute. As an administrative organization, it is responsible for implementing and fostering research and training programs centered around the state's wealth of resources and problems of their development. Various departments whose disciplines bear upon natural resource problems are brought together cooperatively through the Institute to coordinate programs and expertise in marine science and technology for coastal development; biological resources (fish, wildlife, forests, etc.); and water and mineral resources.

Environmental Resources Center  
Georgia Institute of Technology  
Atlanta, Georgia  
Carl Kindsvater  
(404) 873-4211

Institute of Ecology  
Dr. Frank B. Golley, Executive Director  
University of Georgia  
Athens, Georgia 30601  
(404) 542-2968

The Institute operates multidisciplinary research and training programs in ecology. Research programs include radiation ecology, marine science, nutrient recycling, tropical forest ecology, etc. Training programs are concerned with environmental health and systems ecology. The Institute also serves as an environmental information center for the community. During the academic year 1970-71 they supplied more than seventy speakers to various groups in the Athens area. They also operate the Savannah River Ecology Laboratory in cooperation with the Atomic Energy Commission.

Dr. Everett T. Keach .  
University of Georgia  
130 Fain Hall  
Athens, Georgia 40405

Dr. Keach is project director of activities leading to the development of written supplemental curriculum materials for the elementary level with FY 1972 E.E. Act monies.

AGENCIES & GROUPS WITH INTEREST IN E.E.:

Regional Director  
Federal Water Quality Administration  
Southeast Region  
1421 Peachtree Street, N.E.  
Atlanta, Georgia 30303

Georgia Department of Human Resources  
Division of Public Health  
116 Mitchell Street, S.W.  
Atlanta, Georgia 30303

Georgia Department of Natural Resources  
Division of Game and Fish  
Trinity-Washington Building  
270 Washington Street, S.W.  
Atlanta, Georgia 30334

State Soil and Water Conservation Committee  
318 Extension Annex Building  
Athens, Georgia 30601

Georgia Department of Natural Resources  
Water Quality Control Agency  
47 Trinity Avenue, S.W.  
Atlanta, Georgia 30334

Youth Museum of Savannah  
Savannah, Georgia

American Institute of Urban & Regional Affairs  
Dr. William Nash, President  
P.O. Box 1913  
Atlanta, Georgia 30301

The Institute was created in order to provide an institutional framework in which the profound and complex implications of urbanization could be studied and better understood. The unique features of the Institute are its concern with an interdisciplinary approach to the subject and a deliberate orientation to action programs. It asserts that research should be used to improve the condition of man.

Georgia Natural Areas Council  
350 Seven Hunter Street Building  
Executive Director: Sam Candler  
Atlanta, Georgia

Southern Forest Institute  
One Corporate Square, N.E.  
Atlanta, Georgia 30329

Consumer Action Group  
Box 608  
Athens, Georgia 30601  
President: Marilyn Atyeo

Macon Youth Museum Inc.  
4182 Forsyth Road  
Macon, Georgia 31204  
Director: Glen P. Ives  
(912) 745-6549

There is a planetarium connected with the museum and interpretive center building for an E.E. program.

Georgia Conservancy  
 1025 Chandler Building  
 Atlanta, Georgia 30303  
 Mr. W. Smithurst, Director Education Committee  
 (404) 252-7045

The Georgia Conservancy, a statewide organization, has established an education committee which is primarily concerned with E.E. activities in the Atlanta area. It is currently developing curriculum materials in environmental studies for specific use in the nearby Panola Mountain area which the organization has acquired. It is also working on an environmental information packet and a regular environmental newsletter for distribution in the area. Their advisory committees: air and water pollution; coastal areas; historic sites; inland waters; urban environment. Chapters have been organized in Athens, Columbus, Cobb County, DeKalb County, Rome, and Savannah.

The Garden Club of Georgia, Inc.  
 Mrs. James T. Anderson, Jr.

The Garden Club of Georgia Inc. is financing the placement of People and Their Environment in all the Georgia schools.

Citizens for Clean Air  
 Atlanta, Georgia  
 Mrs. Pat Roone  
 (404) 939-5819

SAVE (Save America's Vital Environment)  
 P.O. Box 52652  
 Atlanta, Georgia 30305  
 Mrs. Jane Yarn  
 (404) 237-2344

SAVE is a lobbying group of experienced volunteers organized to promote good planning, wise use, and protection of Georgia's environment and natural resources through legislative, administrative and legal processes.

Kennesaw Mt. National Battlefield Park  
 Box 1167  
 Marietta, Georgia 30060  
 Mr. Ray Gerdes  
 (404) 427-4686

National Park Service and Kennesaw Mountain National Park have long been committed and involved with E.E. programs thru the establishment of Environmental Study Areas and National Environmental Education Development sites. (Kennesaw: C.W. Ogle, Supt. (404) 427-4686; P.O. Box 1167, Marietta 30060) The National Park Service has worked with the Cobb County and Marietta Schools in developing environmental awareness thru use of the study areas. It continues the goals that were developed by an Inter-Agency Environmental Education Action Group.

Okefenokee Curriculum Center (An Environmental Study Area)  
Route 4, Box 180  
Waycross, Georgia 31501  
Donald L. Berryhill, Instructional Specialist  
(912) 283-8494

The Okefenokee Elementary Science Curriculum Project, formerly an ESEA Title III program now supported by state funds, emphasizes conservation and environmental education through the use of Okefenokee Swamp. They have planned several educational facilities in the Okefenokee and are also working on improved science curriculum in grades K-8 for southeast Georgia schools.

Russell Farnen  
George Peabody College for Teachers  
University of Georgia  
Athens, Georgia

Dr. Mary Hepburn  
Fernbank Science Center  
156 Heaton Park Drive, N.E.  
Atlanta, GA 30307

Mrs. R. Beth Nicholson Joyner, Science Instructor  
Marvin Pittman Lab School  
Georgia Southern College  
Statesboro, Georgia 30458  
(912) 764-6611 Ext. 405

Allen Stovall  
Assistant Professor of Landscape Architecture & Environmental Design  
School of Environmental Design  
University of Georgia  
Athens, Georgia 30601  
(404) 542-1816

Bert R. Biles  
Educational Coordinator  
Institute for Study of Health & Society  
2199 N. Decatur Rd.  
Decatur, Georgia 30033  
(404) 633-4271

Mr. C. Edward Carlson  
Regional Director  
U.S. Bureau of Sport Fisheries & Wildlife  
Peachtree - Seventh Building  
Atlanta, Georgia 30323

Person to contact concerning views on vehicle use posing threat to Back Bay National Refuge, VA Beach. (and other places). The Bureau is proposing new regulations.

Professor Eugene P. Odum  
University of Georgia  
Athens, Georgia 30601

Dr. M. J. Rice  
Director of the Georgia Anthropology Curriculum Project and  
Geography Curriculum Project

He has been working with environmental materials within the context of anthropology and geography.

Frank Golley, Director  
Institute of Ecology  
University of Georgia  
Athens, Georgia 30601  
(404) 542-2968

A. Burnham Cooper AIA  
2045 Peachtree Rd. N.E.  
Atlanta, Georgia 30309

## ILLINOIS

STATE E.E. CONTACT:

Dr. J. Robert Sampson  
Director of Environmental Education  
Office of the Superintendent of Public Instruction  
Springfield, Illinois 62706  
(217) 525-2826

STATE PLAN ACTIVITIES:

The recommendations made by the Illinois Task Force for Environmental Education to implement environmental education programs in local schools have outlined six critical needs. Following these recommendations numerous statewide activities are currently in operation in the areas of organization and communication, curriculum planning, teacher in-service, school site facility development, continuing education and research and evaluation. Full scale implementation of the total environmental education program is scheduled for 1974.

E.E. PROGRAMS FUNDED FOR 1972:

Daniel Perlman  
Roosevelt University 430 S. Michigan Avenue  
Chicago, Illinois 60606

A program which will develop curriculum materials for training of inner city educational personnel.

Noel McInnis  
Center for Curriculum Design  
823 Foster Street  
Evanston, Illinois 60204

The center will hold nationwide regional workshops for environmental educators.

Thomas Shea  
School District #115  
S. Mercer Street  
Princeton, Illinois 61356

They will develop community based curriculum materials for use in rural elementary schools.

Illinois Earth Science Association  
Southern Illinois University

Contact OEE.

Gary Kratz  
 Winnebago County Soil and Water Conservation District  
 3820 Auburn Street  
 Rockford, Illinois 61103

Winnebago County is designing curriculum for community environmental education.

Malcom Swan  
 Northern Illinois University  
 Box 299  
 Taft Field Campus  
 Oregon, Illinois 61061

This program will train in-service personnel serving intermediate and secondary schools.

Ted Andrews, Governor's State University  
 College of Environmental and Applied Sciences  
 Park Forest South, Illinois 60466

The program will develop a curriculum for urban community leaders.

Donald Benedict  
 Community Renewal Society  
 13315 Pleasant Valley Road  
 Woodstock, Illinois 60098

They will develop an outdoor E.E. Center program serving inner city residents.

SCHOOL PROGRAMS AND ACTIVITIES:

Community Consolidated School District #65  
 1314 Ridge Avenue  
 Evanston, Illinois 60201  
 Joseph Porter, Superintendent  
 (312) 869-2100

This district has an Outdoor Education program which enables all fifth grade students in the Evanston community to make use of the concepts and skills acquired in their formal basic science curriculum. Racially, ethnically, socio-economically integrated groups of students from the public and private schools spend three days together living in a natural setting observing, and exploring the environment and reacting to one another and to their experiences.

La Salle County Board of Supervisors  
 La Salle County Court House  
 Ottawa, Illinois 61350

This county initiated an environmental education program in September 1971. This program "provides educational experiences that will help to establish and formulate attitudinal and behavioral changes conducive to both man and his environmental counter-parts." The County has purchased 33 acres of land on the south bluff of the Illinois River. On this site an environmental center has been constructed containing a classroom, display and work area, and office space. In the fall and winter session, over 3,000 school students ranging in levels from Trainable Mentally Handicapped to college seniors have availed themselves of educational services. A summer environmental experience was planned for county students. Teachers' institutes on E.E. have been and will be conducted at the schools and the E.E. Center. Also, Northern Illinois University has conducted courses at the Center.

Community Unit School  
 District # 200  
 501 W. South St  
 Woodstock, Illinois, 60098

"Woodstock Environmental Education Project"  
 Director, Roy J. Habeck  
 \$120,000 - FY 1971 Title III Funds Allocated to E.E.

An environmental education program will be established to develop positive attitudinal and behavioral patterns of teachers, students, and other citizens concerning environment so as to effect improvement and enhancement of environmental quality. Students, teachers, and parents will identify environmental problems of the area, State, and Nation; will formulate proposed solutions to identified problems; and will develop materials and programs to augment the existing curriculum. Through these activities, participants will gain understanding of ecology and will learn to identify environmental problems, and to work through legal means for orderly solutions.

Board of Education  
 City of Chicago  
 228 North La Salle Street  
 Chicago, Illinois 60601

A pilot course in E.E. was introduced in three Chicago high schools and six elementary schools during the 1971-72 school year. Contributors to the development of the course were students, teachers, curriculum consultants, professional staff, community representatives, and specialists from industry and government agencies.

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Department of Conservation and Outdoor Education  
 Southern Illinois University  
 Carbondale, Illinois 62901  
 (618) 453-3192  
 (618) 536-2035  
 Chairman: Paul F. Nowak

Publishes "The Outdoor Teacher"

The Outdoor Laboratories of Southern Illinois University has been offering workshops in Conservation and E.E. for high school students for the last six years. Students from all over the state have come at all times of the year to the 6,000 acre outdoor facility at Little Grassy Lake. From a basically traditional conservation program, it has evolved into a program deeply concerned with contemporary environmental issues.

Environmental Engineering Center  
 Professor E. Vey, Chairman  
 Illinois Institute of Technology  
 Chicago, Illinois 60616  
 (312) 225-9600

The Center was established in order to offer opportunities to faculty and to graduate students of the Institute for research and education in water resources and waste treatment for environmental health and improvement of environmental conditions.

Loredo Taft Field Campus  
 Dr. Donald Hammerman  
 Northern Illinois University  
 Box 299  
 Oregon, Illinois 61061

Dr. Donald Hammerman joined the Taft Campus faculty in 1954 to coordinate a program of outdoor learning and teaching experiences for all of N.I.U.'s elementary education majors. This program of outdoor teacher education evolved over the years into what is now recognized as the nation's most comprehensive. Over the years, since its modest beginnings in 1951, Taft Campus has developed a six-pronged educational program which has made the northern Illinois area one of the focal points of outdoor education in the U.S. Typically, junior elementary education majors are involved in an intensive three-day experience, during which

there is a variety of outdoor experiences, ranging from intensive study by an individual to development by the group of a theme. A secondary emphasis is put upon teaching children in the outdoors. As seniors, students spend a week with children at the campus. Each student has varied experiences in outdoor teaching as well as in living and learning with children.

As the university grows, an increasing number of schools in the area send teachers and children to Northern's outdoor education center. Other outdoor education programs in the area are busy throughout the school year; several trace their beginnings to the influence of Northern's program.

Northwestern Students for a Better Environment  
Cresap Laboratory  
Northwestern University  
Evanston, Illinois 60201  
(312) 491-9627

Science Information Speakers' Bureau  
Dr. J. Joseph Levin  
The Chicago Medical School  
2020 W. Ogden Ave.  
Chicago, Illinois 60612

One of SIPI's affiliated science information committees.

Southern Illinois University Outdoor Laboratory (SIU)  
Dr. Paul Yambert  
Carbondale, Illinois

Students for Environmental Concerns  
c/o University of Illinois YMCA  
1001 S. Wright  
Champaign, Illinois 61820  
Coordinator: J. E. Dunwoody  
(217) 344-1351

Sagawau Conservation Club  
Paul Blenz, President  
Box 247  
Lemont, Illinois 60439  
(312) 257-2045

Panhellenic Council, Inc  
 737 North 40th Street  
 East St. Louis, Illinois 62205  
 Co-chairmen: Lena Weathers, Jesse Gurley

Student Association Environmental Planning Committee  
 Northern Illinois University  
 430 B GTS  
 De Kalb, Illinois 60115  
 (815) 753-0482  
 Chairman: Ray Kluka

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Operation Survival Through Environmental Education  
 Jerseyville, Illinois  
 Director: Mr. Lyndon B. Wharton (Coordinator ESEA Title III)  
 (217) 525-3810

Great Lakes Region  
 33 East Congress Parkway  
 Room 410  
 Chicago, Illinois 60605

North Shore Ecology Center  
 1890 Sunnyside  
 Highland Park, Illinois 60635

Natural Resources Education Demonstration Center  
 P. O. Box 264  
 Genoa, Illinois 60135  
 (815) 784-5815  
 (ESEA Title III)

The basis for the Center's program is the development of curriculum materials. Concepts based on 12 broad understandings about natural resources were written and integrated with the County schools' existence science and social studies curricula for grades K-12. To demonstrate the concepts in a natural environment, the Center operates in a facility in the Russell Forest Preserve at Genoa. The Outdoor Laboratory consists of 55 acres, including a portion of the South Branch of the Kishwaukee River.

The Izaak Walton League of America  
1326 Waukegan Road  
Glenview, Illinois 60025

Institute of Environmental Sciences  
T. W. H. Miller, Executive Secretary  
940 East Northwest Highway  
Mt. Prospect, Illinois 60056  
(313) 255-1561

IES is a professional society of both engineers and scientists devoted to testing the environments of earth and space for the betterment of mankind and the advancement of industry and science. Emphasis is placed on such areas as acoustics, corrosion, cryogenics, data acquisition, electromagnetics, environmental pollution, instrument meteorology, marine environments, nuclear radiation, shock and vibration, solar radiation, space vacuum, and ultra high temperature.

Environmental Task Force  
1400 E. 53rd Street  
Chicago, Illinois

Urban, interracial community - Hyde Park Kenwood (southside Chicago)

Environmental Forum, Inc.  
Lakeview Center for the Arts and Sciences  
1125 W. Lake Avenue  
Peoria, Illinois 61614

The above Forum is sponsored by:  
Edward Siebert  
Caterpillar Tractor Company  
100 N.E. Adams Street  
Peoria, Illinois 61602  
(309) 675-4464

A 500 acre wildlife refuge with a program for school children.

Center for Human Ecology  
Dr. Norman D. Levine, Director  
University of Illinois  
Urbana, Illinois 61801  
(217) 333-4178

The Center for Human Ecology studies the interrelationships between man and his environment (physical, biological, social, and political.)

This approach is necessarily both multi- and inter-disciplinary, fusing ideas and information from many different scientific areas. The Center is problem-oriented, seeking to eliminate such plagues as poverty, war, overpopulation, pollution, famine, etc. Courses are offered through the University and a new textbook is being prepared.

State Natural History Survey Division  
179 Natural Resources Building, Urbana, Illinois 61801

Conducts research on the protection and most intelligent use of the State's renewable natural resources to insure maximum sustained economic, educational, and recreational benefits.

Environmental Protection Agency  
535 W. Jefferson Street  
Springfield, Illinois 62704

Charged with air and water pollution control, public water supply, noise control and solid waste control.

The Center for Curriculum Design  
Spaceship Earth Curriculum Project  
823 Foster Street  
Evanston, Illinois 70204

"An Educational Foundation for thinking the world together." The Center is concerned with the "creation of humanistic educational environments and the generation of comprehensive formats for E.E. . . . it advocates and supports the development of processes, techniques, and materials for synthesis of learning experiences to complement the prevailing educational practices which fragment and compartmentalize such experiences; it seeks, creates, and disseminates information on persons, organizations, projects, materials, strategies and ideas for integrating learning experiences and facilitating the emergence of whole-earth perspectives." Several of the Center's current activities are included in the Spaceship Earth Curriculum Project. This project was conceived in the Spring of 1970, Objectives: Development of the conceptual potentials of the Spaceship Earth metaphor; creation of a one year college level Integrative Studies course (currently taught at Kendall College, Evanston, under the title "Environmental Thinking"); creation of original materials in all media which stress the theme of human/environmental integrity; convening of a Spaceship Earth Education Conference to bring together those who wish to develop whole earth educational materials and strategies with those who are already doing it.

Telephone: (312) 866-7830

American Society of Planning Officials  
Israel Stollman, Executive Secretary  
1313 East 60th Street  
Chicago, Illinois 60637  
(312) 324-3400

ASPO is a national service organization which is concerned with social, economic and environmental problems and which asserts that the healthy growth and the orderly development of our communities and the nation depend upon sound planning. In this way, communities are able to eliminate social and environmental ills which retard health and progress.

American Water Resources Association  
S. C. Callany, General Secretary  
P. O. Box 434  
Urbana, Illinois 61801  
(217) 367-9695

The AWRA is a non-profit organization which is concerned with advancement of water resources research, planning, development, and management. It fosters the interdisciplinary cooperation of engineers, physical and biological scientists, and sociologists regarding water resource policies as well as collects, organizes, and disseminates ideas and information in the field of water resources science and technology.

Place for People  
1415 Ellinwood  
Des Plaines, Illinois 60016  
Director: Howard Peterson

A multi-faceted youth service organization which acts as a clearing-house on environmental education, coordinates correspondence between organizations on specific problems, and serves as general information referral service.

Clean Air Committee  
John Egdorg, Executive Director  
Tuberculosis Institute of Chicago and Cook County  
1440 W. Washington Blvd.  
Chicago, Illinois 60607  
(312) 243-2000

Illinois Earth Science Association  
Dr. Musa Qutub, President  
Department of Earth Science  
Northeastern Illinois University  
Bryn Mawr at St. Louis Avenue  
Chicago, Illinois 60625  
583-4050 Ext 552

Chicago Public Library  
Alex Ladenson, Chief Librarian  
78 E. Washington Street  
Chicago, Illinois 60602  
(312) 236-8922

The Chicago Public Library is in the process of setting up a special collection devoted to the environment. The main impetus for the creation of this environmental education center occurred in March of 1961 when Montgomery Ward and Company announced that it was giving to the Library \$25,000 over a five year period for the express purpose of developing an environment collection.

National Council for Geographic Education  
William Elam, Executive Secretary  
111 W. Washington Street, Room 1226  
Chicago, Illinois 60602  
(312) 263-4690

The Madison County Environmental Education Committee  
Dale Sherrard, Co-Chairman  
P. O. Box 482  
Edwardsville, Illinois 62025  
(618) 656-4710

Central YMCA Community College  
Marcelino Crudo, Dean of Community Development  
211 W. Wacker Drive  
Chicago, Illinois 60606  
(312) 222-8216

The College has been conducting an interdisciplinary ecology-oriented credit seminar since the Fall of 1970.

De Kalb County Natural Resources Education Demonstration Center  
Ward Miller, Director  
Box 264  
Genoa, Illinois 60135  
(815) 784-5815

Save Our Resources and Environment (SORE)  
Louis Mule, Administrative Director  
7329 West 634d Street  
Summit (Argo P.O.) Illinois 60501  
(312) 458-3500 Ext 67

This is an environmental, grass-roots community organization, located in a southwestern suburb of Chicago; SORE was formed about two years ago by a few residents to improve the quality of the area's environment.

Open Lands Project  
Wayne Schimpff, Director of Environmental Education  
53 West Jackson Blvd  
Chicago, Illinois 60604  
(312) 427-4256

Mr. Schimpff has been working with various officials at all levels of government and with many non-profit citizens organizations "to develop realistic educational programs to solve their environmental problems. The Project's E.E. program has acted as a catalyst, bringing people with problems together with those of agencies and individuals able to offer solutions."

Council on Population and Environment, Inc.  
Janet Malone, Executive Director  
100 E. Ohio Street  
Chicago, Illinois 60611  
(312) 787-1114

Sponsor of the first National Congress on Optimum Population and Environment (June, 1971) and is a national organization dedicated to clarifying and communicating the complex relationship between population growth, economic life styles, and environmental degradation.

Outdoor Laboratory  
Southern Illinois University  
Little Grassy Lake  
Dr. Paul Yambert, Dean

The Lab provides a resource base for instruction and research for many academic departments in the University as well as services to numerous groups and individuals outside the University community. A memorandum of agreement with the Bureau of Sport Fisheries and Wildlife provides that Crab Orchard National Wildlife Refuge lands may be utilized by the Laboratory for E.E. programs. A large staff with a variety of skills is charged with the responsibility for fulfilling these goals. A major portion of staff attention is directed toward educational programs for

the young. Many students from southern Illinois visit the Lab during school hours to participate in the pioneer culture program. Other teaching stations include the Indian Hidatsa Lodge, the Indian shelter caves, a native grasses prairie, sugar maple grove, riding stables, an animal farm, and Arboretum Nature Trails.

Resident camping is a major part of the Outdoor Laboratory's activities. During the fall, spring, and summer, students from all parts of the state come to Little Grassy to attend Environmental and Field Ecology Workshops. Under the direction of Tim Merriaman, these programs attempt to educate high school students about the variety of environmental problems and motivate them to improve their home communities by starting recycling programs, and by working toward better E.E. in the public schools. At present, more than 600 students attend these programs each year.

A major part of the foundation of the Outdoor Lab falls in the category of special education. Handicapped young people and adults are involved in resident camping throughout the summer and at various times during the year. E.E. is the underlying theme of the programs which attempt to educate and provide recreation. This program, under the direction of Lou Freitag, has grown to national prominence in the field of experiential education and recreation for the handicapped.

A new program is underway at the Laboratory patterned after the national Outward Bound Schools. Directed by Henry Schaefermeyer, this program has grown from a four week summer experiment in 1970 to a major program during all seasons in 1971 and 1972.

John Kirkwood  
Director, Department of Environmental Health  
The Tuberculosis Institute of Chicago and Cook County  
1440 W. Washington Blvd.  
Chicago, Illinois 60607  
(312) 243-2000 Ext. 41

RESOURCE MATERIALS AVAILABLE:

Spaceship Earth Curriculum Project  
The Center for Curriculum Design  
823 Foster Street  
Evanston, Illinois 60204

The Outdoor Teacher Newsletter  
Department of Conservation and Outdoor Education  
Southern Illinois University  
Carbondale, Illinois 62901

POSSIBLE RESOURCE PEOPLE:

Tom Boldrey  
Washington Jr. High  
4th and Richards Streets  
Joliet, Illinois 60433

Mr. Lloyd G. Humphreys  
Chairman, Psychology Department  
University of Illinois  
Urbana, Illinois 61801  
(217) 333-7277 or  
(217) 333-0631

Member of National Advisory Council on E.E. The National Science Foundation is the principal federal agency concerned with E.E. with which Mr. Humphreys has served as Assistant Director of Education.

Linda R. Hoving  
Greeley School  
275 Fairview  
Winnetka, Illinois 60093

Charles Leming (User of GEE materials)  
Carbondale Community High School  
200 N. Springer Street  
Carbondale, Illinois 62901

Paul Gallis  
Washington Jr. High  
4th and Richards Streets  
Joliet, Illinois

Rolf Langehaug  
Huntley Middle School  
7th and Taylor Streets  
De Kalb, Illinois 60115

Evelyn Harris  
Calumet High School  
Chicago, Illinois

Writer of Environmental Studies curriculum.

Clifford Knapp, Professor  
Department of Outdoor Education  
Southern Illinois University  
Carbondale, Illinois

Dr. Jean Kriebs  
College of Education  
University of Illinois  
Circle Campus in Chicago

Marion Lawson  
Winnebago Co. Conservation Education Council  
3820 Auburn Street  
Rockford, Illinois 61103

Noel McInnis  
Center for Curriculum Development  
Kendall College, Illinois

Mr. Richard C. Stupka  
c/o Dr. James E. Brower  
Department of Biological Sciences  
Northern Illinois University  
De Kalb, Illinois 60115

Did a study "Lead Pollution Effects on Terrestrial and Aquatic Ecosystems of the Great Lakes Region" and presented report at the December 1971 meeting of the American Association for the Advancement of Science.

Mr. Richard C. Frederick or  
Mr. Dale R. Jurich  
c/o Dr. William Randolph Boggess  
Department of Forestry  
University of Illinois  
Urbana, Illinois 61801

They did a study "Effects on Society and the Environment of Alternative Methods of Packaging Goods for Household Consumption" and reported on it at the December 1971 meeting of the American Association for the Advancement of Science.

Mr. Daniel L. Eberhardt  
c/o Dr. Claude A. Lucchesi  
Director of Analytical Services  
Northwestern University  
Evanston, Illinois 70201

He did a study "Chemical, Biological, and Economic Studies of Municipal Garbage Composting" and reported on it at the December 1971 meeting of the American Association for the Advancement of Science.

Roger Podewell  
City Colleges of Chicago

Attended the April 1971 meeting of the National Association for E.E.  
He is familiar with Man and Environment (Miami-Dade).

James Joseph Gallagher and Ted F. Andrews  
College of Environmental and Applied Sciences  
Governors State University  
Park Forest South, Illinois 60466  
(312) 463-2211

William W. Rogge  
Director  
E.E. Project  
Valley View District #96  
Lockport, Illinois 60441

Mr. Robbie Schmidt  
221 W. 3rd Street  
Oglesby, Illinois 61348

Mrs. Virginia Stehney  
Downers Grove, Illinois

Member of NEA Task Force on E.E. Primary grades classroom teacher.

Tony M. Sulia  
Good Neighbor Day Committee  
2501 Bradley  
Chicago, Illinois 60618

Dr. Bjorklund  
Bradely University  
1501 W. Bradley Pl. W.  
Peoria, Illinois 61606  
(309) 676-7611

Wayne Booth  
University of Chicago  
Chicago, Illinois

Curriculum specialist.

Mary Carpenter  
East View  
Route 71  
Oswego, Illinois 60432

Joanne Day  
The New School  
Route 1  
Oakley, Illinois 62552

Don Yon  
1908 Galen Drive  
Champaign, Illinois 61820

Member of the 1971 International Youth Conference on the Human Environment.

Mr. Ted Downey  
1327 Dennison Drive, Apt A  
Springfield, Illinois 62704

Gaylin Fligor  
Principal, Lewis School  
Carbondale, Illinois

He has written on the integration of conservation into the curriculum.

Wendell H. Berry, Jr.  
1500 W. Kennedy Road  
Lake Forest, Illinois 60045  
(312) 234-7609

Science Station Coordinator, Biology Instructor, Lake Forest Academy;  
MS Botany, University of New Hampshire; University of Costa Rica -  
Organization for Tropical Studies; Aspen Institute in Field Biology;  
Naturalist Guide, Voyageur Canoe Outfitters, Quetico, Canada; Trustee -  
Rocky Mountain Environmental Field Center.

Ray DePalma  
William Rainey Harper College  
Illinois

Familiar with Man and Environment (Miami-Dade).

M. Campbell  
c/o Professor Pattison  
Department of Geography  
The University of Chicago  
Chicago, Illinois 60637

Dr. Musa Qutub  
President, Illinois Earth Science Association.  
Assistant Professor of Earth Science  
Northeastern Illinois University  
Chicago, Illinois 60625

Dr Qutub directed two workshops in environmental science, one for inner city teachers and the other for science and social studies teachers. He directed two in-service institutes for earth science teachers and held numerous workshops for earth science teachers. He is the author of numerous articles on earth and environmental science education and was chairman of two national symposiums on earth science education. Dr. Qutub is author of two forthcoming textbooks, Environmental Science - Secondary Methods of Learning and Know Your Environment - Elementary Science Methods.

Mr. John Sorenson  
United Airlines

He participated as a guest lecturer in the in-service institute and in workshops and has considerable teaching experience as research meteorologist for United Airlines.

Dr. James Patterson  
Assistant Professor, Environmental Engineering  
Illinois Institute of Technology

Dr. Patterson participated in two workshops in environmental science and currently is teaching environmental engineering courses at Illinois Institute of Technology.

Dr. Thomas Archibold  
Assistant Professor, Chemistry  
Illinois Institute of Technology

Dr. Archibold is currently writing a textbook for non-major chemistry college students and is interested in developing units in chemistry that pertain to environmental awareness.

Mrs. Iva Wells  
Assistant Professor  
University of Illinois  
Chicago Circle

She is interested in social implication of science curriculums and has given two presentations in workshops held at Northeastern and Illinois Institute of Technology.

Dr. Charles Martin  
Assistant Professor, Elementary Education  
University of Illinois

Dr. Earl Zwicker  
Associate Professor of Physics  
Illinois Institute of Technology

Dr. Zwicker directed an in-service institute in physics funded by the National Science Foundation. He participated in previous environmental workshops and has shown great interest in helping teachers experiment with more approaches to teaching science.

Mr. Jens C. Midtaune  
Science Consultant  
Chicago Board of Education  
Chicago, Illinois

Mr. Midtaune is interested in encouraging teachers to use new approaches in teaching science and he has been cooperative in previous workshops held for science teachers.

Dr. E. Scale  
Dean, College of Education  
Northeastern Illinois University

Mr. Tony Torres, Science Supervisor  
Title III, NDEA-Science  
Office of Superintendent of Public Instruction  
Springfield, Illinois

Mr. Torres has traveled extensively in Illinois and has been working with school systems in opening their schools and using more approaches to teaching elementary science.

Sam B. DeNeal  
Director of Outdoor Education  
Community Unit District No. 2  
Marion, Illinois  
(618) 993-5108

Janet Stetser  
Program Services Director  
Shagbark Girl Scout Council  
304 N. 14th Street  
Herrin, Illinois 62948  
942-3164

Gladys V. Sullivan  
Chairman, Science Department  
Carbondale Community High School District No. 165  
Carbondale, Illinois 62901

L. F. Kluth  
Associate Director  
University Theater  
Southern Illinois University  
Edwardsville, Illinois

Ray E. Miller, Director  
Operation Survival Through Environmental Education  
Title III, ESEA  
Environmental Education Project  
P.O. Box 122  
Pere Marquette State Park  
Grafton, Illinois 62037  
(618) 786-3313

Cooperating Schools:

Alton School District  
Alton Catholic Schools  
Bethalto School District  
Holy Ghost Catholic School, Jerseyville  
Jersey School District (Operating School District)  
Our Lady Queen of Peace Catholic School, Bethalto  
Southwestern School District  
Zion Lutheran School, Bethalto

## INDIANA

STATE E.E. CONTACT:

Mr. Joe Wright  
 Environmental Education Consultant  
 Division of Curriculum  
 State Department of Public Instruction  
 Room 108, S. O. B.  
 Indianapolis, Indiana 46204  
 (317) 633-4507

SCHOOL PROGRAMS AND ACTIVITIES:

Prof. Joseph Jankowski  
 St. Joseph's Calumet Campus  
 4721 Indpls. Blvd.  
 East Chicago, Indiana 46312

Prof. Jankowski conducts weekend E.E. workshops for graduate credit.

Mr. Ray Lockwood  
 Marion Community Schools  
 P. O. Box 808  
 Marion, Indiana 46952

Mr. Lockwood is project director of activities leading to the development of a process curriculum for grades K-12, with FY 1972 E.E. Act monies.

Mr. David Whaley  
 Curriculum Director  
 Warsaw Community Schools  
 E. Main Street  
 Warsaw, Indiana 46580

Senior high environmental studies integrated: Suggested by Indiana E.E. state education agency contact as an outstanding summer E.E. program.

Mr. Harry Feldman  
 Eagle Creek Park and Nature Preserve  
 Metropolitan School District of Pike Township  
 6901 Zionsville Road  
 Indianapolis, Indiana 46268  
 (317) 293-0393

Department of Parks and Recreation of Indianapolis has developed an E. E. Center there. Conducts teacher workshops, implements E.E. curriculum, provides nature programs, etc.

The following educators and school districts have developed excellent environmental education programs:

Mr. Glenn Linnert  
 Science Supervisor  
 New Albany-Floyd Co. Consolidated School Corp.  
 802 East Market Street  
 New Albany, Indiana 47150

Field Biology and Elementary Outdoor Education. A Title III program which will implement state K-12 E.E. Design.

Mr. Jack Hart  
Environmental Education Supervisor  
Hayes Regional Arboretum  
802 E. Elks Road  
Richmond, Indiana 47374

Project "SEE" (Self Earth Ethic). An interdisciplinary curriculum guide which emphasizes using the school site and community. Focuses on sensory experiences etc.

Mr. Ron Riggins  
Director, Bradford Woods  
Martinsville, Indiana 46151

Indiana University's Residence Environmental Education Center. Camp Towaki, Camp Pioneer, Camp Riley and Manor House offer excellent facilities for residence programs, in-service training, etc.

Mr. David McGaw  
Biology Teacher  
West Lafayette High School  
Leslie Road  
West Lafayette, Indiana 47907

J. Maxwell Davis  
Indiana State University  
Evansville, Indiana

Organizer of a total community E.E. program to develop Stockwell Woods, an E.E. center in Evansville.

Mr. Thomas Roman  
Social Studies Instructor  
George R. Clark High School  
1921 Davis Avenue  
Whiting, Indiana 46394

Ecology Club and Community Oriented E.E. His students helped save one of the few remaining areas in Hammond, Indiana.

Mr. Joseph R. McGeehan  
Social Studies Supervisor  
Indianapolis Public Schools  
120 E. Walnut St.  
Indianapolis, Indiana

Mr. Victor Fraser  
Deep River Environmental Education Center  
3100 Liverpool Road  
Gary, Indiana 46405

Day Camping E. E. - 5th Grade, E.E. curriculum development, in-service training, gardening.

Mr. John Davis  
Science Supervisor  
South Bend Community Schools  
635 S. Main St.  
South Bend, Indiana

Uses Bendix Woods for elementary students, residence program for 6th grade, etc.

Dr. Madgaline Davis  
Outdoor Education Supervisor  
Indianapolis Public Schools  
120 East Walnut Street  
Indianapolis, Indiana 46204

Residence Outdoor Education - 6th Grade  
Project SEE (Self Earth Ethic) K-3. Summer E.E. program for 700 6th graders.  
Baker Farm (a 70 acre natural site for senior high ecological studies)

University and College Programs and Activities:

WATER RESOURCES RESEARCH CENTER

Dan Wiersma, Director  
Purdue University  
Lafayette, Indiana 47907  
(317) 494-4061

The major objective of the Center is to bring the intellectual as well as the physical resources of the University to bear upon the solution of the increasingly important scientific, technical, economic, and management problems associated with the development of the essential natural resource, water.

Institute for Environmental Health

John E. Christian, Director  
Purdue University  
Lafayette, Indiana 47907  
(317) 749-2734

The Institute conducts broad-based interdisciplinary research and training into man's environment related to his health and ecology. Within this framework, the Institute will develop knowledge and methodology for furthering research in basic areas of concern and to increase the number of environmental scientists for academic and research institutions as well as for the field of environmental management.

The Eco-Coalition  
205 Morrison Hall  
Indiana University  
Bloomington, Indiana 47401

They put out the Eco-Coalition Bulletin.

For membership information contact:

Mrs. Joe Wick, Secretary-Treasurer  
923 S. 9th Street  
Lafayette, Indiana 47905

Mr. Hector J. Rosquete  
 c/o Dr. John E. Christian  
 Institute for Environmental Health  
 Purdue University  
 Lafayette, Indiana 47907

He did a study "Air Pollution, Water Pollution, and Solid Waste Disposal Problems in the Greater Lafayette Area, Indiana," and reported on it at the December 1971 meeting of the American Association for the Advancement of Science.

Dr. Clyde W. Hibbs, Director  
 Natural Resources Institute  
 College of Science and Humanities  
 Ball State University  
 Muncie, Indiana 47306

The Institute functions within the framework of an interdisciplinary advisory committee with responsibilities in three major areas - teaching, research, and extension services. The Institute has been involved in teaching graduate courses dealing with environmental science for primary and secondary teachers and Soil Conservation Service personnel during the last two years. Staff members of the Institute provide consultant services for conservation organizations, resource agencies, and educational institutions including the U. S. Office of Education.

Jerry L. Brown  
 Box F  
 Indiana University Foundation  
 Bloomington, Indiana 47401

Received FY 1972 monies under the E.E. Act for Development of 12th grade curriculum materials dealing with population and its relation to the environment.

Dave Johnson  
 Marian College  
 Development and College Relations  
 3200 Cold Spring Road  
 Indianapolis, Indiana 46222

Received FY 1972 monies under the E. E. Act for the development of a process curriculum for community members. His Wetlands project and curriculum will enhance pre-service and in-service programs.

Dr. Willis Johnson  
 Indiana Academy of Science  
 Wabash College  
 Crawfordsville, Indiana 47933

Received FY 1972 monies under the E. E. Act for the development of E. E. seminars in four Indiana communities.

Urban Studies Program  
 St. Mary's College

With a grant from the National Endowment for the Humanities, St. Mary's College in conjunction with the University of Notre Dame has introduced an urban studies program designed to develop a "clear community self-image and contribute to formation of a truly human environment for urban living."

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Michigan Water Shed  
403 Prospect Street  
Elkhart, Indiana

Department of Natural Resources  
608 State Office Building  
Indianapolis, Indiana 46204

State Board of Health  
1330 W. Michigan Street  
Indianapolis, Indiana 46206

Project Urban Upswing  
Indianapolis, Indiana

This is a NEA Center for Human Relations.

Lafayette Environmental Action Federation (LEAF)  
P. O. Box 2103  
West Lafayette, Indiana 47906

They put out the LEAF News Bulletin, a 12 page newsletter with environmental news from around the world. Activities are carried on through Charter Committees including political action, land usage, organic agriculture, waste recycling and household ecology, pollution studies and action, publicity and publications, and speakers bureau.

President, Mrs. Joe Wick (742-7800)  
Vice President, Dr. William Martin Becker (463-9773)  
Secretary, Mrs. Richard Terry (474-9171)  
Editor, Carol Waddell (474-9690)

Indiana Conservation Council, Inc.  
Jim Jontz, Executive Director  
2128 E. 46th Street  
Indianapolis, Indiana 46268  
(317) 293-8512

The Council's prime objective is to encourage through all educational means the intelligent management of the life-sustaining resources of Indiana and the nation - soil, water, forest, and wildlife - and to promote the pursuit of knowledge and greater appreciation of natural resources, their community relationships, and wise use.

**Citizens Committee for Environmental Protection**

Carroll Ritter  
Town and Country Trailer Park  
Pump House Road  
Route 1, Lot 13  
Bedford, Indiana 47421  
(812) 279-4782

Lafayette Recycling Inc.  
Lafayette, Indiana

Purdue Environmental Action (PEA)  
Lafayette, Indiana

Area Beautification Committee  
Lafayette, Indiana

Lafayette Civic Design Commission  
Lafayette, Indiana

Committee to Publicize Crisis Biology

Dr. Donald R. Whitehead, Chairman  
Morrison Hall, Room 205  
Indiana University  
Bloomington, Indiana 47401

The Committee was created to establish a greater degree of public awareness of the principles of ecology as they apply to current problems of pollution, overpopulation, and resource depletion. In addition, it attempts to stimulate other citizens to take specific action, both as individuals and through their affiliated organizations. Members also publish a newsletter, miscellaneous fact sheets and reports for the general public.

Indiana Public Interest Research Group (Indiana PIRG)  
David Hersch, State Coordinator  
Indiana Memorial Union, Room 48-H  
Bloomington, Indiana 47401  
(812) 332-5678

"Committee to organize," inspired by Ralph Nader. A coalition of students, faculty, community groups, and professional people jointly researching issues of public interest.

Mazine Batman  
Vincennes and Knox Public Libraries  
502 North 7th Street  
Vincennes, Indiana 47591

Received FY 1972 monies under the E.E. act for workshops involving the establishment of a rural environmental education program.

B. J. McGuiness  
Marion County Tuberculosis and Respiratory Disease Association  
615 N. Alabama Street  
Indianapolis, Indiana 46204

Received FY 1972 monies under the E. E. act for training citizens to serve as community environmental education instructors.

Glen Catlin  
American Camping Association, Inc.  
Bradford Woods  
Martinsville, Indiana 46151

Received FY 1972 monies under the E.E. Act for development of environmental workshop formats for use in summer camps.

RESOURCE MATERIALS AVAILABLE:

The Eco-Coalition Bulletin  
205 Morrison Hall  
Indiana University  
Bloomington, Indiana 47401

LEAFlet

Published by: Lafayette Environmental Action Federation  
P. O. Box 2103  
West Lafayette, Indiana 47906  
474-9171

A 12 page newsletter with environmental news from around the world.  
Membership in LEAF - \$2 per year.

POSSIBLE RESOURCE PEOPLE:

Clyde Hibbs  
Director of Natural Resources Institute  
Ball State University  
Muncie, Indiana

Also, Director, Conservation Education Association.

Donald Van Meter  
Ball State University  
Muncie, Indiana

His primary responsibility is in the general area of natural resources, including integrated resources management, and environmental education.

John Towler  
Professor of Education  
Purdue University  
Lafayette, Indiana

Does teaching and research work pertaining to graduate and under-graduate teacher education in social studies, environmental education, geography, and psychology.

David Brenchley  
Professor of Environmental Engineering  
Purdue University  
Lafayette, Indiana

Does teaching and research work pertaining to environmental problems. Responsible for obtaining a grant to develop a graduate training program in air pollution control. He is Chairman of the Annual Indiana Air Pollution Control Conference.

John Christian, Head  
Bionucleonics Department and  
Director, Institute for Environmental Health Studies  
Purdue University  
Lafayette, Indiana 47907

Glenn Linnert, Science Coordinator  
New Albany-Floyd County Consolidated School Corp.  
802 E. Market Street  
New Albany, Indiana 47150  
(812) 945-6681 Ext 45

Lynton Keith Caldwell  
Indiana University

Member of Advisory Committee - Earth Science Educational Program.

Richard Baer  
School of Religion  
Earlham College  
Richmond, Indiana

Mr. Harry H. Feldman  
Superintendent of Outdoor Education  
Department of Parks and Recreation  
1426 W. 29th Street  
Indianapolis, Indiana 46208

Dr. Austin Ferguson , Ex. Director  
Merry Lea Environmental Center  
P. O. Box 263  
Wolf Lake, Indiana 46796

Conducts teacher workshops, environmental education seminars, E.E. courses, adult education programs, etc.

Subscribes to Group for Environmental Education's curriculum distribution plan (Philadelphia, Pennsylvania).

Mrs. Chauncey Baldwin  
Chairman of the Board  
Michigan Water Shed  
403 Prospect Street  
Elkhart, Indiana 46514

Member of Save-The-Dunes Council and E. E. Task Force.

Dr. Lynton Caldwell  
I.U.C.N.  
Department of Political Science  
Indiana University  
Bloomington, Indiana

Mrs. Weldon Comer  
Science Resource Teacher  
Gary Public Schools  
Gary, Indiana

Works extensively with volunteer environmental organizations to improve Gary's environment.

Mr. Tom Dustin, Ex. Director  
Izaak Walton League  
1802 Chapman Road  
Huntertown, Indiana 46348

Provides support to E. E. through legislation, funds, workshops, materials, etc.

John Harrold  
State Social Studies Consultant  
Division of Curriculum  
Department of Public Instruction  
Room 108, S. O. B.  
Indianapolis, Indiana 46204

Conducts E. E. workshops, E. E. conferences, etc.

Professor Patrick Harsbrugh  
Environic Foundation International  
P. O. Box 88  
Notre Dame, Indiana 46556

E. J. Kirsch  
Professor of Environmental Engineering  
Purdue University  
School of Civil Engineering  
Lafayette, Indiana 47907

Mr. John Franson  
Midwest Rep.  
National Audubon Society  
1020 E. 20th St.  
Owensboro, Kentucky

Encourages his Audubon chapters to sponsor E.E. workshops, E.E. legislation, etc.

John Moody  
 School of Education  
 Indiana University, Southeast  
 Warder Park  
 Jeffersonville, Indiana

Developer of environmental simulation activities, E. E. curriculum, environmental study areas, etc.

Dr. Marshall Parks  
 Science Teaching Center  
 Indiana State University  
 Terre Haute, Indiana

Conducts E. E. workshops, has students write environmental curriculum, introduces teachers to natural and man made environments, etc.

Michael M. Price  
 Environmental Education Consultant  
 Indiana State Department of Public Instruction  
 Southern Regional Service Center  
 511 4th Street  
 Huntingburg, Indiana 47542

Conducts weekend teacher training workshops for teachers and administrators in Indiana.

C. M. Ryan, Principal  
 Twin Lakes High School  
 300 S. Third Street  
 Monticello, Indiana 47960

Subscribes to Group for Environmental Education's curriculum distribution plan (Philadelphia, Pennsylvania.)

Dr. Charles Sappenfield  
 College of Architecture  
 Ball State University  
 Muncie, Indiana 47306

Subscribes to Group for Environmental Education's curriculum distribution plan (Philadelphia, Pennsylvania.)

Jack Snell  
 Environmental Education Consultant  
 Northern Regional Office  
 Department of Public Instruction  
 635 S. Main Street  
 South Bend, Indiana 46623

Conducts E. E. teacher workshops, state plan specialist, attended UNESCO Env. Conf. in Stockholm.

Leroy Troyer  
 3019 Essex Drive  
 South Bend, Indiana 46615  
 (317) 234-0779

Secretary General of the 1971 International Youth Conference on the Human Environment.

Dr. Wiley Wenger  
School of Recreation  
Indiana State University  
Terre Haute, Indiana

Conducts teacher workshops, uses community as a classroom, etc.

Mrs. Helen Wildermuth, Director  
Beautification and Conservation  
Department of Development and Planning  
Gary Planning Commission  
Board of Zoning Appeals  
Municipal Building  
Gary, Indiana 46402

Joe Wright  
State Environmental Education Consultant  
Division of Curriculum  
Indiana Department of Public Instruction  
Room, 108, S. O. B.  
Indianapolis, Indiana 46204

Responsible for K-12 E. E. guidelines, workshops, State Plan, etc.

## KENTUCKY

STATE E.E. CONTACT:

Mr. Lynn Hodges  
State Consultant for E.E.  
Department of Education  
Capitol Plaza Towers  
Frankfort, Kentucky 40601  
(502) 564-3505

SCHOOL PROGRAMS AND ACTIVITIES:

Environmental and Outdoor Education  
Mr. James M. Major  
Paducah Public Schools  
1000 Clark Street  
Paducah, Kentucky 42001

School Site Development  
Mr. Harold Grooms  
Bourbon County School System  
Paris, Kentucky 40361

Murray's Environmental Education Laboratory  
Murray Independent School System  
Murray, Kentucky 42071

Curriculum Integration in E.E.  
McCracken County School System  
Dr. David S. Stewart, Superintendent  
Paducah, Kentucky 42001

Environmental Education within Model City  
Bowling Green Independent School System  
Dr. James B. Graham, Superintendent  
Bowling Green, Kentucky 42101

Curriculum Development and Community Utilization  
Henderson Independent School System  
William B. Posey, Superintendent  
Henderson, Kentucky 42420

Curriculum Development and School Site Development  
Hardin County School System  
Dr. Ernie Thro, Director  
Elizabethtown, Kentucky 42701

Community Resource Utilization  
Elizabethtown Independent School System  
William A. Sadler, Superintendent  
Elizabethtown, Kentucky 42701

Inner City Environmental Education  
Watson Lane Elementary  
Jefferson County School System  
Mr. Randall Pelfry, Principal  
Louisville, Kentucky 40218

Fayette County Environmental Education Program  
Fayette County School System  
Mrs. Mary Strong, Supervisor  
Lexington, Kentucky 40503

Rural Environmental Education  
Owen County Elementary School  
O. V. Jones, Superintendent  
Owen County School System  
Owenton, Kentucky 40359

Project PEECE (Environmental Education and Early Childhood Education)  
Title III, ESEA Region V  
Ray Muffett, Coordinator (11 county area)  
Tradewind Center  
Somerset, Kentucky 42501

Project for Environmental Awareness  
Title III, ESEA Region VI  
Shaw Blankenship, Coordinator (18 county area)  
601 Beagley Building  
Eastern Kentucky University  
Richmond, Kentucky 40475

L.B.J. Environmental Education Program  
L.B.J. Elementary School  
Francis Johnson, Principal  
Jackson, Kentucky 41339

Tennessee Valley Authority's Land Between the Lakes  
Environmental Education Center  
John Paulk, Educational Director  
P. O. Box 27  
Golden Pond, Kentucky 42231

Union College Environmental Education Center  
Dr. Ed Baker, Director  
Cumberland Gap National Park  
Middlesboro, Kentucky 40965

Pine Mountain Settlement School  
Environmental Education Center  
Peter Westover, Director  
Pine Mountain, Kentucky 40864

Louisville Environmental Education Program  
Louisville Independent School System  
David Shulhafer, Coordinator  
Louisville Board of Education  
Fourth and Broadway  
Louisville, Kentucky 40202

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Union College  
Training and Site Development in Environmental Education  
Barbourville, Kentucky 40906  
Dale Myers, Director

Prestonsburg Community College  
Robert Allen, Coordinator  
Prestonsburg, Kentucky 41653

Somerset Community College  
James Anderson, Coordinator  
Somerset, Kentucky 42501

Thomas More College  
Bill Bryant, Coordinator  
Covington, Kentucky 41017

Kentucky Wesleyan College  
Dr. Lee A. Dew, Coordinator  
Owensboro, Kentucky 42301

Spalding College  
Sister Mary Gemma, Coordinator  
Louisville, Kentucky 40203

Hopkinsville Community College  
Charlie Irvin, Coordinator  
Hopkinsville, Kentucky 42240

Elizabethtown Community College  
George L. Luster, Coordinator  
Elizabethtown, Kentucky 42701

Lexington Technical Institute  
Russell E. Puckett, Coordinator  
Lexington, Kentucky 40503

Paducah Community College  
John E. L. Robertson, Coordinator  
Paducah, Kentucky 42001

Jefferson Community College  
William B. Turner, Coordinator  
Louisville, Kentucky 40201

Ashland Community College  
Libby Callihan Walthall, Coordinator  
Ashland, Kentucky 41101

St. Catherine College  
John S. Wright, Coordinator  
St. Catherine, Kentucky 40061

Murray State University  
Don Hunter, Coordinator  
Murray, Kentucky 42071

Western Kentucky State University  
Chuck Crume, Coordinator  
Bowling Green, Kentucky 42101

University of Louisville  
Kiron C. Bordoloi, Coordinator  
Louisville, Kentucky 40202

Kentucky State University  
Dr. Gerritt Kloek, Coordinator  
Frankfort, Kentucky 40601

University of Kentucky  
Dr. Roger Barbour, Coordinator  
Lexington, Kentucky 40503

Eastern Kentucky State University  
Dr. Glenn O. Carey, Coordinator  
Richmond, Kentucky 40962

Morehead State University  
Dr. Jerry F. Howell, Coordinator  
Morehead, Kentucky 40351

Funded under E.E. Act - FY 1971, FY 1972.

Bellarmino College  
Charles E. Kupchella, Coordinator  
2000 Norris Place  
Louisville, Kentucky 40205

Funded under E.E. Act - FY 1972.

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Bernheim Forest Nature Center  
Ben Armstrong, Coordinator  
Bernheim Forest  
Clermont, Kentucky 40110

State Department of Health  
Irvin Bell, Assistant Director  
275 E. Main Street  
Frankfort, Kentucky 40601

State Department of Natural Resources  
Bill Gayle, Coordinator  
Capitol Plaza Towers  
Frankfort, Kentucky 40601

State Department of Fish and Wildlife  
James Gilpin, Coordinator of Conservation Education  
Capitol Plaza Towers  
Frankfort, Kentucky 40601

Soil Conservation Service  
Harvey D. Bradley, State Conservationist  
Lexington, Kentucky 40504

Mrs. Ruth Fishback  
Buckley Hills Audubon Society  
Versailles, Kentucky 40383

Title I ESEA  
Mr. John Bruce, Director  
Capitol Plaza Towers  
Frankfort, Kentucky 40601

Louisville Audubon Society  
Mrs. Barry Jacobs, Executive Secretary  
3616 Windward Way  
Louisville, Kentucky 40220

State Department of Commerce  
John Stapleton, Coordinator of Research and Planning  
Capitol Plaza Towers  
Frankfort, Kentucky 40601

Army Corps of Engineers  
Tom Sweet, Coordinator  
Louisville, Kentucky 40202

Kentucky League of Sportsmen & National Wildlife Federation  
William Smith, Coordinator  
Rt. 6  
Owensboro, Kentucky 42301

Title III, ESEA  
John Bruce, Coordinator  
Capitol Plaza Towers  
Frankfort, Kentucky 40601

State Department of Parks  
Bill Marshall, Coordinator  
Capitol Plaza Towers  
Frankfort, Kentucky 40601

Agriculture Experimental Station  
Joe B. Williams, Coordinator  
University of Kentucky  
Lexington, Kentucky 40504

Save Our Kentucky  
Mr. James Branscome  
P. O. Box 795  
Louisville, Kentucky 40201

Mammoth Cave National Park  
Len McKenzie, Chief Naturalist  
Mammoth Cave, Kentucky 42259

Mt. People's Rights  
Prestonburg, Kentucky 41653

Kentuckiana Girl Scout Council  
Mary Jo Leppert, Field Director  
1268 Cherokee Road  
Louisville, Kentucky 40204

Kentucky Program Development Office  
Margaret LeBus, Representative  
Capitol Plaza Towers  
Frankfort, Kentucky 40601

Kentucky Forestry Council  
Dr. Thomas Hansbrough, Coordinator  
University of Kentucky  
Department of Forestry  
Lexington, Kentucky 40506

Kentucky Tuberculosis and Respiratory Disease Association  
Joseph M. Higdon, Western Kentucky Regional Director  
P. O. Box 137  
322 West 5th Street  
Owensboro, Kentucky 42301

Future Homemakers of America (student group)  
Mrs. Agnes Foster, Advisor  
Capitol Plaza Towers  
Frankfort, Kentucky 40601

Future Farmers of America (student group)  
Mr. James M. Everett, Advisor  
Fulton County High School  
Hickman, Kentucky 42050

Cumberland Chapter of the Sierra Club  
Mr. Carroll Tichenor, Chairman  
Cave Run Farm  
Nicholasville, Kentucky 40356

Kentucky Academy of Science  
Dr. Marvin Russell, President  
Ogden College of Science and Technology  
Western Kentucky University  
Bowling Green, Kentucky 42101

Kentucky Congress of Parents and Teachers  
Mrs. W. Glenn Keightley, 1st Vice President  
4405 Church Street  
Covington, Kentucky 41015

Bluegrass Organic Association  
Mary Ann Cateforis, Coordinator  
984 Maywick Drive  
Lexington, Kentucky 40504

Citizen's Metropolitan Planning Council, Inc.  
P. O. Box 175  
Louisville, Kentucky 40201

Kentucky Association of Conservation Districts  
Mr. Robert Ellis, President  
709 Florence Pike  
Burlington, Kentucky 41005

Daniel Boone National Forest  
Mr. Joe Clark, Coordinator  
Winchester, Kentucky 40391

Kentucky Education Association  
Gerald Jagers, Coordinator  
101 West Walnut Street  
Louisville, Kentucky 40202

Courier Journal and Times  
525 West Broadway  
Louisville, Kentucky 40202

Paducah Sun Democrat  
Pat Moynahan, Coordinator  
Kentucky Avenue  
Paducah, Kentucky 42001

Kentucky Department of Environmental Protection  
Thomas Harris, Director  
Capitol Plaza Towers  
Frankfort, Kentucky 40601

Kentucky Department of Highways  
Darrell Baker, Coordinator  
Capitol Office Building  
Frankfort, Kentucky 40601

Tennessee Valley Authority  
Golden Pond Office  
John Paulk, Coordinator  
Golden Pond, Kentucky 42231

Coca-Cola Bottling Company  
Craig R. Schmidt, Coordinator  
Louisville, Kentucky 40202

RESOURCE MATERIALS AVAILABLE:

Experimental curriculum materials:\*

Kentucky Department of Education  
Paducah Public Schools  
Bourbon County Public Schools  
McCracken County Public Schools  
Henderson Public Schools

\* For complete addresses and contact persons, see preceding pages.

Hardin County School System  
 Jefferson County, Watson Lane Elementary  
 Project PEECE, Title III, ESEA Region V  
 Union College Environmental Education Center  
 Pine Mountain Settlement School

General Resource Material:\*

Morehead State University  
 T.V.A./Land Between the Lakes - Residential facilities  
 Department of Health - Solid Wastes, Housing, Regulations  
 Department of Commerce - Regulations, Economics, Trade impact  
 Army Corp of Engineers - Technical impact of construction  
 Buckley Hills Audubon Society - Audubon publications, day use facilities  
 Department of Fish and Wildlife - monthly publications, resource guides  
 Department of Natural Resources - brochure items on conservation  
 University of Kentucky  
 Mammoth Cave National Park - NESAs and NEED material  
 Kentucky Tuberculosis and Respiratory Disease Association - several  
 brochures and one book dealing with air, health, and pollution  
 Cumberland Chapter of Sierra Club - Sierra Club publications  
 Appalachian Hardwood Association - filmstrips, kits, and samples relating  
 to forestry management and use  
 Courier Journal - regular news articles, syndicated column on ecology  
 Paducah Sun Democrat - regular articles, special reports on E.E. in  
 Western Kentucky area  
 Kentucky Department of Highways - impact statements in brochure form  
 Coca-Cola Bottling Company - Ecology kit X013 - environmental games

POSSIBLE RESOURCE PEOPLE:

Wendell Berry  
 Department of English  
 University of Kentucky  
 Lexington, Kentucky 40503

\*For complete addresses and contact persons, see preceding pages.

Wayne Davis  
Professor, School of Biological Sciences  
University of Kentucky  
Lexington, Kentucky 40503

Wrote "Overpopulated America" (New Republic, January 10, 1970, pp. 13-15).

Dr. Roger Barbour  
School of Biological Sciences  
University of Kentucky  
Lexington, Kentucky 40503

Has written several books on ecological habitats and wildlife in Kentucky.

Mr. James M. Major  
1000 Clark Street  
Paducah Board of Education  
Paducah, Kentucky 42001

Coordinator of one of Kentucky's outstanding E.E. programs. Developed curriculum guide, Objectives and Field Activities in Environmental Education, consisting of teacher developed curriculum materials, multidisciplinary.

Mr. Harold Grooms  
Director of Environmental Education  
Bourbon County Board of Education  
Paris, Kentucky 40361

Developed and coordinated curriculum for school site development adjacent to high school and junior high school.

Mr. Robert Howes, Director  
Land Between the Lakes  
Golden Pond, Kentucky 42231

Over-all director of the 177,000 acre national recreation area that is being preserved in semi-wilderness status.

Mr. John Paulk, Director  
E.E. Center  
Land Between the Lakes  
Golden Pond, Kentucky 42231

Director of the environmental education program in L.B.L. consisting of day-use, residential use, public school and general public educational models.

Mr. Chuck Crume  
Western Kentucky University  
Bowling Green, Kentucky 42101

Wildlife artist and educator-naturalist involved in outdoor education programs.

Mr. James Gilpin, Director  
Conservation Education  
Department of Fish and Wildlife  
Capitol Plaza Towers  
Frankfort, Kentucky 40601

Director of conservation camps in Kentucky and supervisor of school programs utilizing conservation officers and wardens.

Mr. Len McKenzie, Chief Naturalist  
Mammoth Cave National Park  
Mammoth Cave, Kentucky 42259

Presentations on NESAs and NEEDS programs, specializing in area near Mammoth Cave. Ecology of cave systems and formations.

Mr. Wayne Hewell, Supervisor  
Training of Environmental Aides  
Manpower Training Development Program  
Hopkinsville, Kentucky 42240

Special presentation on the success of training and placing technical aides for environmental surveys and assessment.

Mr. Ray Muffett, Coordinator  
Project PEECE  
Title III, ESEA Region V  
Somerset, Kentucky 42501

Coordinator of curriculum development project covering eleven counties in south-eastern Kentucky.

Mr. Shaw Blankenship, Coordinator  
Environmental Awareness  
Title III, ESEA Region VI  
Eastern Kentucky University  
Richmond, Kentucky 40475

Coordinator of in-service training and awareness workshops for 18 county area in eastern Kentucky.

Mr. Peter Westover, Director  
Pine Mountain Settlement School  
Pine Mountain, Kentucky 40864

Director of 800 acre environmental education center serving the Appalachian region of eastern Kentucky.

Dr. Charles E. Baker, Director  
Union College E.E. Center  
Middlesboro, Kentucky 40965

Director of residential facility within Cumberland Gap National Park. Center converted from a phased-out Job Corp Center

Mr. Lynn Michael Hodges, Consultant  
Environmental Education  
Kentucky Department of Education  
Capitol Plaza Towers  
Frankfort, Kentucky 40601

Statewide consultant for Department of Education.

Mr. J. A. Prestridge, Director  
Institute for Environmental Studies  
University of Kentucky  
Lexington, Kentucky 40506

Mr. Orville Stewart  
Water Pollution Control Board  
Frankfort, Kentucky 40601

Mr. Joseph Higdon, Director  
Western Region, Kentucky Tuberculosis and Respiratory Disease Association  
P. O. Box 137  
322 West 5th Street  
Owensboro, Kentucky 42301

Special presentation concerning air, health, and pollution. Brochure material available in large orders for study and use by school systems.

Dr. Jerry F. Howell, Coordinator  
Environmental Education  
Morehead State University  
Morehead, Kentucky 40351

Twenty 30-minute video tapes on all aspects of the environment. Special material and expertise on E.E. Act of 1970. Funded under E.E. Act for 1971 and 1972.

## MICHIGAN

STATE E.E. CONTACT:

Jack W. Kammeraad  
Science and Environmental Education Specialist  
State Department of Education  
Lansing, Michigan 48902  
(517) 373-1484

Rod Smith  
Supervisor of Education and Training  
Division of Information and Education  
Department of Natural Resources  
Lansing, Michigan 58903  
(517) 373-1214

STATE PLAN ACTIVITIES:

The Governor's Office submitted a State Plan for funding in fiscal year 1972 and it was funded. Contact:

William Stapp.  
Chairman, Task Force on E.E.  
c/o James Kellogg  
Office of the Governor  
84 Capitol Building  
Lansing, Michigan 48903

The plan will: (1) establish broad-based state environmental education task force; (2) examine state E.E. needs and state resources; (3) formulate state E.E. goals and objectives, to be reevaluated over time; (4) give opportunity for input into all phases of the planning process by citizens including students, business, industry, organizations, institutions, and government; (5) develop and distribute a set of recommendations, identify priorities and provide a strategy for implementing each recommendation. The State plan has been completed and is presently being published.

E.E. PROGRAMS FUNDED FOR 1972:

School District of the City of Pontiac  
B. C. VanKoughnett  
350 Wide Track Drive East  
Pontiac, Michigan 48058

This is an overall environmental education program affecting both school and community.

SCHOOL PROGRAMS AND ACTIVITIES:

Bentley Middle School  
Harold Neitzke, Principal  
1223 South Belsay Road  
Flint, Michigan 48503  
742-2610

Johnson Elementary  
Carl Ewald, Principal  
1114 South Genesee Road  
Flint, Michigan 48503  
742-1760

Dye Junior High  
Verne Dresbach, Principal  
G-5256 Corunna Road  
Flint, Michigan 48504  
732-1330

Mandeville Junior High  
Rudy Mora, Principal  
1024 West Bristol Road  
Flint, Michigan 48507  
239-8422

Carman Park Elementary  
Mrs. Doris Cherry, Principal  
3375 Van Campen Drive  
Flint, Michigan 48507  
235-5252

Gladys Dillon Elementary  
Robert Spencer, Principal  
1197 Schumacher Avenue  
Flint, Michigan 48507  
239-5666

Waterford Schools  
Don Maxwell  
6020 Pontiac Lake Road  
Pontiac, Michigan  
674-0444

Fenton Lawn Elementary  
Ben Gellis, Principal  
1181 West Scottwood Avenue  
Flint, Michigan 48507  
232-7449

Hoover Elementary  
Dale E. Wolfe, Jr. Principal  
2165 LaVelle Road  
Flint, Michigan 48504  
732-0350

Rankin Elementary  
Mrs. Erma Evans, Principal  
G-3459 Mundy Avenue  
Swartz Creek, Michigan 48473  
655-4697

Stalker Elementary  
Dale E. Wolfe, Jr., Principal  
G-3329 Burnell Avenue  
Flint, Michigan 48504  
239-4014

Van Slyke Elementary  
Charles Jennings, Principal  
2249 West Maple Avenue  
Flint, Michigan 48507  
238-1966

Woodland Elementary  
Arnold Griffin, Principal  
G-3493 Beveridge Road  
Flint, Michigan 48504  
732-3830

Carter Middle School  
Eldon Ross, Principal  
Bruce Fairweather, Assistant Principal  
Upland Street  
Clio, Michigan 48420  
686-2300

Ann Arbor Public Schools  
Mr. John C. Rosemergy  
1220 Wells Street  
Ann Arbor, Michigan 48104

Northwestern High School  
Kenneth Fish, Principal  
George Hurley, Assistant Principal  
G-2138 West Carpenter Road  
Flint, Michigan 48505  
785-9826

Southwestern High School  
Vencent J. Olszewski, Principal  
Shelby J. Cummings, Deputy Principal  
1420 Torrey Road  
Flint, Michigan 48507  
234-3623

Elms Elementary  
Paul A. Dressel, Principal  
6125 North Elms Road  
Flushing, Michigan 48433  
659-9312

Jack Haas Elementary  
Carol Barden, Principal  
7347 North Benessee Road  
Genesee, Michigan 48437  
686-2720

Goodrich High School  
Roy U. Stacey, Principal  
G-8029 Gale Road  
Goodrich, Michigan 48438  
636-2911

George Daly Junior High  
Edward Foster, Principal  
Richard Blewett, Assistant Principal  
G-4470 Richfield Road  
Flint, Michigan 48506  
743-3880

Lakeville Memorial High  
Erwin Griswold, Principal  
12455 Wilson Road  
Otisville, Michigan 48463  
631-2215

Lakeville Middle School  
Frans Luoma, Principal  
G-11107 Washburn Road  
Otisville, Michigan 48463  
631-2215

Columbiaville Elementary  
Olan Mishler, Principal  
4775 Pine Street  
Columbiaville, Michigan 48421  
793-6717

Linden Elementary  
Edward Pokornowski, Principal  
400 South Bridge Street  
Linden, Michigan 48451  
735-4121

Johnson High School  
Peter Fusi, Principal  
8041 Neff Road  
Mt. Morris, Michigan 48458  
686-2370

Swartz Creek High School  
John Egloff, Principal  
Louie E. Medlin, Assistant Principal  
8320 Ingalls Street  
Swartz Creek, Michigan 48473  
635-4441

Swartz Creek Middle School  
David Webb, Principal  
Carl Buck, Assistant Principal  
8230 Crapo Street  
Swartz Creek, Michigan 48473  
635-4441

Michael Hamady High School  
R. Barrie Fell, Principal  
Harry Avesian, Assistant Principal  
G-3223 West Carpenter Road  
Flint, Michigan 48505  
785-9006

Luke M. Powers Educational Center  
Larry L. Long, Principal  
G-2040 West Carpenter Road  
Flint, Michigan 48505  
785-4741

Flint Christian  
Keith Borgstrom, Principal  
G-3196 West Pasadena Avenue  
Flint, Michigan 48504  
732-8310

Superintendents Advisory Committee for Environmental/Ecological Education  
Grand Rapids Public Schools  
143 Bostwick Avenue, N.E.  
Grand Rapids, Michigan 49502

Dye Elementary  
Martin Perono, Principal  
Vern DuPraw, Assistant Principal  
1174 Graham Road  
Flint, Michigan 48504  
732-5320

Atherton Junior High School  
David Zittel  
3354 S. Genessee Road  
Flint, Michigan 48507  
742-0400

Grant Public Schools  
Melvin J. Rullman  
311 E. State Road  
Newago, Michigan 49327  
834-5621

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Ecology Center  
University of Michigan  
(313) 761-3186

This group has five separate community activities:

1. Re-cycling.
2. Meeting place for ecology groups.
3. Community organic garden (federally funded).
4. Library (section in the public library - E.E. oriented).
5. Curbside pick up.

Saginaw Valley College  
2250 Pierce Road  
University Center, Michigan 48710

Saginaw Valley has been operating for the past 2½ years an environmental education program which has been directly interfaced with the community. The community has pledged \$350,000 to the college for an Environmental Center.

Center for Environmental Studies  
School of Architecture and Environmental Studies  
University of Detroit  
Detroit, Michigan  
(313) 342-1000 Ext. 249

#### Michigan State University Waste Control Authority

##### Introduction:

In 1970, a comprehensive study on the pollution problems that exist on the Michigan State University Campus was made by an engineering firm from St. Louis, Missouri. The conclusion of the study was that a university-wide agency be formed to deal with the existing pollution problems. Thus, the Waste Control Authority was formed in 1971.

The formation of the Waste Control Authority is significant for two reasons. First, it represented Michigan State University's concern that environmental pollution is a major issue in our society to deal with pollution problems. Secondly, the Waste Control Authority is the first such organization of its kind in the Country.

### Personnel:

The Waste Control Authority consists of a board of nine members who represent various departments on Campus. The members are:

- |                              |   |
|------------------------------|---|
| 1. Emery G. Foster, Chairman | Assistant Vice President for<br>Business Operations |
| 2. Carl J. Eigenauer         | Public Safety                                       |
| 3. Burt Ferris               | Grounds Maintenance                                 |
| 4. Fred J. Moore             | Member of E-QUAL                                    |
| 5. Dr. Ronald Nelson         | Animal Husbandry                                    |
| 6. Dr. John P. Newman        | Veterinary Medicine                                 |
| 7. Mr. Robert Siefert        | University Architect                                |
| 8. Dr. Howard Tanner         | Natural Resources                                   |
| 9. Dr. Ronald Wilson         | Natural Science                                     |

Mark Rosenhaft is the Director and primary administrator of the Waste Control Authority and reports to the Executive Vice President of the University. His job is to oversee and coordinate the activities of the various University departments concerning environmental problems. His office, located in Room 496 Administration Building, is the center for the activities of the Waste Control Authority.

### Function:

The function of the Waste Control Authority is to identify any pollution that exists on our Campus, and any future pollution problems that can be foreseen. Once the problem is identified, the Waste Control Authority will take the necessary steps to correct the problem. Before any corrective steps are taken, however, the Waste Control Authority will research all the existing plans for the control of a particular type of pollution and decide on which plan would be most feasible. It is the desire of the Waste Control Authority to implement the newest and most effective equipment necessary to prevent environmental pollution.

Another equally important function of the Waste Control Authority is to cooperate with student groups on Campus that are concerned with the important questions about the ecology of our environment, especially those questions that are directly related to Michigan State University itself. Student and faculty plans for recycling of wastes on Campus will be considered by the Waste Control Authority. Student and faculty questions dealing with pollution problems on the Michigan State University Campus will be answered by the Waste Control Authority. Student and faculty proposals for corrective measures for pollution will also be studied by the Waste Control Authority to determine their worth.

In conclusion, the Waste Control Authority does not want to be isolated from the student body and the University faculty. In fact, its effectiveness depends on student and faculty participation in the implementation of pollution abatement programs, and in the monitoring of pollution problems on Campus. Complaints may be sometimes necessary to draw attention to some previously overlooked pollution problem. All suggestions or complaints should be addressed to the Waste Control Authority, 496 Administration Building, telephone number 355-1826.

Pollution Problems of Concern to the Waste Control Authority:

1. Air-borne wastes
2. Water-borne wastes
3. Solid wastes
4. Chemical wastes
5. Pathogenic wastes
6. Radioactive wastes
7. Animal wastes
8. Hospital wastes

Future Goals:

It is true that the Michigan State University Waste Control Authority is a new concept in waste control. For this reason, there may be many trial and error endeavors involved with the initial programs of the Authority. This is good, because a final goal of the Waste Control Authority is to initiate new and practical waste control programs into society. Thus, the Waste Control Authority will serve as a blueprint to which other universities or communities in the country can turn to for guidance in setting up their own programs for waste control.

It is hoped that the Michigan State University Waste Control Authority will serve as a catalyst for the formation of a regional plan of waste control in the Lansing area, or even the State of Michigan. It is the Director's belief that because of the nature of waste - its ability to move from one community to another via the air or water - a regional plan for waste control would be the most effective plan of all.

"To be satisfied with yesterday's solution to today's problems will most certainly lead to disaster for the community and the nation."  
(Vaughn, 1968, Environmental Protection Agency)

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Keep Southfield Beautiful Inc.  
23505 Lee Lane  
Southfield, Michigan 48075

Affiliated with Keep America Beautiful

Michigan Wildlife Foundation  
Box 2235  
2101 Wood Street  
Lansing, Michigan 48911

Blandford Nature Center  
Grand Rapids Public Museum  
1715 Hillburn Avenue, N.W.  
Grand Rapids, Michigan 49504  
Curator: Mary Jane Dockeray  
(616) 453-6192

Keep Michigan Beautiful, Inc.  
 28165 Greenfield Road  
 Southfield, Michigan 48076  
 Executive Director: Mrs. Leland Smith  
 (313) 557-8433

Environmental Field Centers Inc  
 5778 Hobart Street  
 Detroit, Michigan 48202  
 Mildred Smith (313) 873-0327  
 William Hindle (313) 884-4444

William G. Milliken, Governor  
 Department of Natural Resources  
 Stevens T. Mason Building  
 Lansing, Michigan 48926

On February 15 and 16, 1973, the Michigan Natural Resources Council held its annual conference in East Lansing. This is a consortium of 60-plus organizations that includes universities, industrial corporations, governmental agencies, natural resources-oriented societies (Audubon), consumer and producer associations, the 100,000 member Michigan United Conservation Clubs, federal agencies, and other groups with a great diversity of interest.

Michigan Student Environmental Confederation  
 409 Seymour Avenue  
 Lansing, Michigan  
 E.E. Specialist: Don Albrecht  
 (517) 484-7421

During the course of its existence MSEC (since Nov 1970) has built up a direct working relationship with over 130 environmental organizations, including student and citizen groups.

Michigan E.E. Association  
 Lansing, Michigan

Hobart Street Environmental Field Center  
 Detroit, Michigan

Michigan Population Council  
 Birmingham, Michigan

Zero Population Growth  
 East Lansing, Michigan

Environmental Law Society  
Ann Arbor, Michigan

Fenner Arboretum  
Lansing, Michigan

Chippewa Nature Center  
Midland, Michigan

Houghton High School Ecology Club  
Houghton, Michigan

E.E. Committee  
Genesee County

Exists in cooperation with Genesee Intermediate School District, chaired by a curriculum consultant from the Intermediate Office.

Thunder Bay Environmental Council

A volunteer citizen group which organized to promote environmental quality in Northeastern Michigan.

Jackson County Environmental Headquarters

Michigan Tuberculosis and Respiratory Disease Association  
Lansing, Michigan

Sierra Club  
Lansing, Michigan

Michigan Committee for Environmental Information  
Robert L. Burnap, Director  
P. O. Box 2281  
Grand Rapids, Michigan 49501  
(308) 459-8281

The Committee is a non-profit, public service, and educational organization dedicated to organizing professional people from many disciplines to seek out and disseminate the best data and soundest judgements on "Spaceship Earth" to the citizens. It offers a solid, independent source of facts and opinions about actions that affect environmental quality. It is one of SIPI's affiliated science information centers.

Michigan Student Environmental Confederation, Inc.  
 409 Seymour Street  
 Lansing, Michigan 48933  
 (517) 484-7421

It acts as a liaison between what is going on in the legislature and state government offices and with the myriad student and citizen projects and activities. The six MSEC staff members come from widely different college backgrounds. A major activity involves publishing EARTH BEAT every two weeks. Education concerning Michigan's environment is another major activity. The bulk of their activities are supported through private donations. It offers help to: find environmental films, set up discussion groups, locate and arrange for speakers, influence legislation, arrange assemblies, make available teaching aides, organize an Action Council, find information on new and varied topics, learn about issues, provide important dates for state and national affairs, read about current state issues and problems.

Institute for Environmental Quality  
 2200 N. Campus Blvd  
 University of Michigan  
 Ann Arbor, Michigan 48105

Established by Regents in March 1970 with funds provided by the Rockefeller Foundation, "Its purpose is to provide initial support for scholars and students interested in new and interdisciplinary approaches to environmental problems" Its Director is assisted by a Policy Committee composed of seven vice-presidents and deans and by an Advisory Committee composed of ten faculty members and four graduate students representing various academic units.

"In keeping with its objective of stimulating interdisciplinary teaching, training, and research. . . the Institute grants fellowships to highly qualified advanced students, supports establishment of new faculty positions, and provides initial funding for research projects." Also the Institute is interested in encouraging broad approaches to environmental problems through support of new inter-student and inter-faculty forums and seminars.

Director: Stanley A. Cain, Professor of Conservation

Michigan United Conservation Clubs  
 James L. Rouman, Executive Director  
 1120 East Oakland Avenue  
 P. O. Box 2235  
 Lansing, Michigan 48911  
 (517) 489-2417

The organization was founded in order to further advance the cause of conservation in all its phases, and to perpetuate and conserve the fish, game, mineral, soil, water and forest resources of the state. Its goal

is to so manage the use of all natural resources that this generation and posterity will receive the maximum benefit from the same.

Michigan Wildlife Foundation  
1120 E. Oakland Avenue  
Lansing, Michigan 48911  
(517) 489-2417  
President: Louis McGregor

"The sole purpose of the NWF is its dedication to the task of conservation education." A non-profit, non-partisan organization.

Or contact: Paul Wendler, Vice President  
48 Bretton Place  
Saginaw, Michigan

American Society of Limnology and Oceanography, Incorporated  
W. K. Kellogg, Secretary  
Biological Station  
Michigan State University  
Hickory Corners, Michigan 49060  
(616) 671-5144

The Society is comprised of concerned professionals who are dedicated to the promotion of interest and research in the aquatic sciences. Members are especially concerned with wise and effective use of the world's aquatic resources.

Lake Erie Clean-Up Committee  
John Chascsa, President  
3003 11th Street  
Detroit Beach  
Monroe, Michigan 48161  
(313) 242-3575

National Sanitation Foundation  
2355 W. Stadium Blvd  
Ann Arbor, Michigan 48103  
(313) 663-8581

A non-official and non-commercial agency incorporated under Michigan law, devoted to research, education, and service; it functions as a medium in which business, industry, official regulatory agencies and the public can confront issues of environmental concern together. It is most widely known for its role in developing standards and criteria for products and services. NSF welcomes public health officials to

get copies of their Standards and Criteria and to use it as a clearing-house on matters relating to environmental quality; educators to exchange ideas and information on E.E.; editors and journalists who want to use it as an environmental resource center; manufacturers with inquiries regarding products and services relating to public health and sanitation. Their experience and facilities and methodology are available to any group, public or private, that sees an environmental problem and seeks help in finding a solution.

Air Pollution Control Section  
Department of Public Health  
3500 N. Logan Street  
Lansing, Michigan 48906

Department of Natural Resources  
Mason Building  
Lansing, Michigan 48926

State Department of Education  
Lansing, Michigan 48902

Water Resources Commission  
Mason Building  
Lansing, Michigan 48926

Water resources and State water pollution control programs.

Morgan Elementary School  
Jo Ann Burgess  
Utica Community School System  
53800 Mound Road  
Utica, Michigan 48087

Nature Center Inc.  
7000 N. Westnedge Avenue  
Kalamazoo, Michigan 49007  
Contact: Diane D. Worden

Center for Environmental Study  
Exhibitors Building  
Grand Rapids, Michigan 49502  
458-8589  
Administrative Director: Peter M. Wege

A joint program with the National Sanitation Foundation, Ann Arbor; Edward L. Stockton, Environmental Quality Project Director. "A non-profit organization dedicated to the preservation, protection and improvement of the environment through public information, research, and service." Doing a three year study of environmental needs of the Grand Rapids area.

Biological Society of America  
Dr. John Cantlon, Representative  
Michigan State University  
East Lansing, Michigan 48823  
(517) 355-1855

The Society is comprised of interested botanists, zoologists, geographers, geologists, meteorologists, soil scientists, agronomists, range specialists, sociologists, and other professionals who are endeavoring to promote the scientific study of organisms in relation to their environment, both as individuals and as members of populations and communities. The Society also facilitates the exchange of ideas among those interested in ecology and offers an opportunity for presentation and criticism of research of members.

Conservation Education Reserve  
Michigan Department of Natural Resources  
7th Floor, Mason Building  
Lansing, Michigan 48926

In 1967 the then Michigan Conservation Commission approved a resolution whereby private landowners would be recognized by the Michigan Department of Natural Resources for making their lands available to schools and youth groups for E.E. programs.

It is a partnership between the landowner, the school and youth group which provides the students and the educational plan, and the Department of Natural Resources which certifies the Reserve. The Department provides a consultant to help the landowner and the educators or youth leaders using the Reserve.

School District of the City of Wyandotte  
639 Oak Street  
Wyandotte, Michigan 48192

FY 1971 Title III Funds Allocated to E.E. - \$247,351. "Strategies for E.E. - Project SEE"; Fred P. Davenport, Director.

A model E.E. program aimed at developing people who are consciously aware of their environment and are motivated to assume an active role in efforts to maintain and improve the environment will be implemented. The curriculum will include specially designed environmental education packages which will be utilized by selected students. Efforts will be made to involve the entire community in the project on a continuing basis. University personnel will assist in the pre-service and inservice environmental education of teachers.

American Association for Conservation Information  
Russell McKee, Associate Editor  
c/o Department of Natural Resources  
Lansing, Michigan 48926  
(517) 373-1214

The AACI is a conference of state agencies and Canadian provincial agencies dealing with conservation and natural resource issues. The conference is held annually to discuss programs, policies, standards, and trends in conservation. The association publishes a summary of annual proceedings as well as a bimonthly newsletter.

Center for Urban Studies  
Dr. Robert B. Smock, Director  
Dearborn Campus  
University of Michigan  
Dearborn, Michigan  
(313) 271-1480

The Center was established in order to provide a focus for urban service programs of the University system. The staff includes specialists trained in sociology, economics, political science, urban planning, and mathematics who together with graduate students conduct research in social and economic projects in the metropolitan area of Detroit.

RESOURCE MATERIALS AVAILABLE:

EARTH BEAT - a newsletter  
Michigan Student Environmental Confederation Inc.  
409 Seymour Street  
Lansing, Michigan 48933

An 8-12 page newspaper tabloid carrying current state and national news, comments, reports, games, reviews, photos, educational and legislative news. It is mailed throughout Michigan to 650 subscribers and hand carried to Michigan legislators.

Newsletters:

of the Michigan E.E. Association  
of the Outdoor Education Project  
of the Michigan Science Teachers Association  
and "Environmental Notes"

POSSIBLE RESOURCE PEOPLE:

Miss Barbara J. Pickens  
c/o Dr. John Loss  
School of Architecture  
University of Detroit  
Detroit, Michigan 48221

Did a study "Relationship Between Changes in Physical Dwelling Unit Environment and Social Environment" and presented a report on it at the December 1971 meeting of the American Association for the Advancement of Science.

Dr. Julian Smith  
Professor of Education, Outdoor Education  
Michigan State University  
East Lansing, Michigan 48823

Graduate study program offered in Outdoor Education from the College of Education at this University. Two weeks outdoor Educational workshop is offered each year.

Sue Denig  
Jackson County Environmental Center  
145½ West Michigan  
Jackson, Michigan 49202

Member of Ecology Centers Communications Council.

Mrs. William Klingbail  
56 Hawthorne  
Environmental Action Now  
Grosse Pointe, Michigan 48326

Member of Ecology Centers Communications Council

Mr. Robert Vogel  
Michigan Public Schools  
Dexter, Michigan 48103

Mr. Byron Ashbaugh, Chief  
Outdoor Education Services  
Genessee County Department of Parks and Recreation  
Flint, Michigan

Alfred Baratte  
Northwestern High School  
9395 Littlefield  
Detroit, Michigan 48228

Richard E. Barnhart  
Director, General Education Services Area  
Department of Education  
Lansing, Michigan 48902

Sent in LEA comments in 1972.

Gerald Kline  
Institute for Social Research  
University of Michigan

He works with Enviromedia in St. Paul, Minnesota. He holds a doctorate in Mass Communication from the School of Journalism and Mass Communication at the University of Minnesota, where he was an Assistant Professor and Director of Research for the School of Journalism and Mass Communication.

Morton Hilbert, Chairman  
Department of Environmental and Industrial Helath  
School of Public Health  
University of Michigan  
Ann Arbor, Michigan 48104  
(313) 764-3188

David Cross, Science and E.E. Coordinator  
Lansing School District  
519 W. Kalamazoo Street  
Lansing, Michigan 48933  
(517) 485-8161 Ext 344

Myles Boylan, Director  
School of Urban Planning and Landscape Architecture  
Michigan State University  
East Lansing, Michigan 48823  
(517) 355-4464

George Stegnier, Director, E.E.  
Lowell Area Schools  
320 N. Monroe  
Lowell, Michigan 49331

Edward J. Vander Velde  
Geography Department  
Michigan State University  
East Lansing, Michigan

An instructor in geography. He gives a course, "Eco-Agriculture" with Dr. Ronald J. Horvath; it deals specifically with field research methods and techniques in geography. They have decided to teach the usual methods and techniques but "within the context of the crisis in our ecosystem and the need to develop alternative environmental uses for human survival." Students were invited to identify a number of researchable problems in the area, and one group formed around organic agriculture and gardening. The group is called AHMOAB (Albert Howard Memorial Organic Agriculture Brigade).

Walter F. Van Dien  
Conservation Education Specialist  
Region 3 Conservation Headquarters  
408 Kalamazoo Plaza  
Lansing, Michigan 48914

Joseph Stoltman  
Department of Geography  
Western Michigan University  
Kalamazoo, Michigan 49001

John Nellor  
Michigan State University  
East Lansing, Michigan

William P. Hindle  
1838 Hawthorne Road  
Cross Pointe, Michigan  
(313) 884-3120

Ann Stacy  
Michigan Society of Architects  
28 West Adams Avenue  
Detroit, Michigan 48226

Walter Thompson, Urban Corps Intern  
Human Resources Center  
Pontiac Board of Education  
60 Parkhurst Street  
Pontiac, Michigan 48058  
335-9461

Wayne William Schmidt  
Wigen Morris Tincknell & Associates, Inc.  
3444 Davenport Street  
Saginaw, Michigan 48602

Jim Melocke  
Detroit Chapter AIA  
8335 E. Jefferson  
Detroit, Michigan 48214

Jean Odle  
Human Resources Center  
Pontiac Board of Education  
60 Parkhurst Street  
Pontiac, Michigan 49058  
335-9461

Calvin Oppenheim, Teacher  
Human Resources Center  
Pontiac Board of Education  
60 Parkhurst Street  
Pontiac, Michigan 48058  
335-9461

Thor Petersen, Director  
Human Resources Center  
60 Parkhurst Street  
Pontiac, Michigan 48058  
335-9461 Ext 51, 52

Russel Wilson  
School of Education  
University of Michigan

Diane D. Worden  
Nature Center Inc.  
7000 N. Westnedge Avenue  
Kalamazoo, Michigan 49007

Lee Quinn  
Coordinator of Health, Physical Education and Outdoor Education  
Department of Education  
Lansing, Michigan 48902

Ed Rydell, Science Resource Teacher  
Human Resources Center  
Pontiac Board of Education  
60 Parkhurst Street  
Pontiac, Michigan 48058  
335-9461 Ext 40

Betty Pfeffer, Teacher  
Human Resources Center  
Pontiac Board of Education  
60 Parkhurst Street  
Pontiac, Michigan 48058  
335-9461

June Wilson  
School of Education  
University of Michigan

Elaine Waldman  
School of Education  
University of Michigan

John E. Kenney  
Sanitary Engineering Consultant  
Ann Arbor, Michigan

Mr. John C. Rosemergy  
1220 Wells Street  
Ann Arbor Public Schools  
Ann Arbor, Michigan

Rachel Kaplan  
University of Michigan  
Ann Arbor, Michigan 48104

Cecil Ursprung or William Kopper  
ENACT Ecology Center  
417 Detroit Street  
Ann Arbor, Michigan 48104  
(313) 761-3186

Member of Ecology Center Communications Council . It was funded  
under E.E. Act as a community environmental education project, 1971.  
Director, William Kopper.

Mrs. Harriette Brooks, Principal  
Instruction and Curriculum Development  
Human Resources Center  
Pontiac Board of Education  
600arkhurst Street  
Pontiac, Michigan 48058  
335-9461 Ext 41 42

Joel Goldsteen  
University of Detroit  
School of Architecture and Environmental Study  
4001 W. McNichols  
Detroit, Michigan 48221

Mr. Lee D. Beatty  
Contract Officer  
260 Research Administration Building  
University of Michigan  
Ann Arbor, Michigan 48103  
(313) 764-3188

Funded under the E.E. Act 1971-72; involved in curriculum development.

Robert Hilbert  
Delta College

Ronald Lippitt  
Professor of Sociology and Psychology  
University of Michigan  
Ann Arbor, Michigan

He is Research Program Director for Institute for Social Research, Ann Arbor. He has had a long and successful career in the area of group process, human interaction and communication and leadership training.

James Swan  
Lecturer in Resource Planning and Conservation  
School of Natural Resources  
Ann Arbor, Michigan

Dr. Julian Brandou  
Director, Science and Math Teaching Center  
Michigan State University  
East Lansing, Michigan

Lawrence Ephriam Jr., Producer  
WTVS, Channel 56  
Detroit, Michigan

Producer of a weekly environmental segment.

Geoffrey Lanning  
Professor of Law  
Wayne State University Law School

In charge of the environmental law program at Wayne State, and is Chairman of Wayne State University Environmental Committee charged with developing an E.E. program for the University.

Dr. James Butcher  
Assistant Dean College of Natural Science  
Director of Education for the  
Center for Environmental Quality  
Grand Rapids, Michigan

Dr. Shirley Brehm  
Associate Professor, Science Education  
Specialist in Methods and Material Development for E.E.  
Grand Rapids, Michigan

Olga Madar, Vice President and Director  
Department of Conservation and Resource Development  
International Union, United Automobile,  
Aerospace and Agricultural Implement Workers of America - UAW  
8000 E. Jefferson  
Detroit, Michigan 48214

James Doyle  
Luke M. Powers High School  
Flint, Michigan

John Hugo  
Northwestern High School  
Flint, Michigan

Flenowyn Joens  
Genesee Intermediate S/D  
Flint, Michigan

Felix Lehmkuhle  
Luke M. Powers High School  
Flint, Michigan

Dr. Arvo Lohela  
Genesee Intermediate S/D  
Flint, Michigan

Douglas Chapman  
Michigan State University  
Cooperative Extension Service  
Flint, Michigan

Gary McDaniel  
Central High School  
Flint, Michigan

Adrienne Shieck  
Johnson High School  
Mt. Morris, Michigan

Sister Margaret Urban  
Luke M. Powers High School  
Flint, Michigan

Dr. Kendall B. Cox  
University of Michigan  
Flint, Michigan

James Mindorff  
Rankin Elementary  
Flint, Michigan

Hugo Pinti  
Flint Community Schools  
Flint, Michigan

Robert Stafford  
Genesee Intermediate S/D  
Flint, Michigan

Vincent Van Roeyen  
Beecher High School  
Flint, Michigan

David Williams  
Westwood Heights Schools  
Flint, Michigan

June Wilson  
Genesee Intermediate S/D  
Flint, Michigan

Byron Ashbaugh  
For-Mar Nature Preserve  
Flint, Michigan

Dan Gajewski  
Daly Jr. High School  
Flint, Michigan

Kenneth Gempel  
Bendle Public Schools  
Flint, Michigan

Ed Pokornowski  
Linden Elementary  
Linden, Michigan

Carl Stamm  
Soil Conservation District  
Flint, Michigan

Gladys Dillon  
Flint Community Schools  
Flint, Michigan

Lloyd Mitchell  
Daly Jr. High School  
Flint, Michigan

Dr. Chester Wilson  
Genesee Community College  
Flint, Michigan

Miss Helen Shaver  
Fair Winds Girl Scout Council  
Flint, Michigan

Mrs. Robert Shepard  
Swartz Creek Middle School  
Swartz Creek, Michigan

Jack Teegarden  
Boy Scouts of America  
Flint, Michigan

Norman Wing  
Burroughs House  
Flint, Michigan

Mark Rosenhaft, Director  
Michigan State University Waste Control Authority  
496 Administration Building  
East Lansing, Michigan 48823

Robert Luebke  
Environmental Coordinator  
Michigan State University Waste Control Authority  
496 Administration Building  
East Lansing, Michigan 48823

The following is the Planning Group for Michigan State Plan:

William Stapp (Chairman)  
Professor of E.E.  
University of Michigan  
Ann Arbor, Michigan

Rodney R. Smith (Vice Chairman)  
Supervisor of Education and Training  
Michigan Department of Natural Resources  
State Department of Natural Resources  
Lansing, Michigan

Don Albrecht  
E.E. Specialist  
Michigan Student Environmental Federation  
East Lansing, Michigan

Paul Cousins  
Science high school teacher  
Dexter, Michigan

Randall L. Davis  
Student, E.E.  
University of Michigan  
Ann Arbor, Michigan

James Gilliland  
U.S. Steel Worker  
AFL-CIO Environmental Chairman  
Wyandotte, Michigan

Barbara Horn  
Elementary teacher (6th grade)  
Grosse Pointe, Michigan

Dr. Peggy Miller  
Michigan Department of Education  
Lansing, Michigan

Dr. E. J. McClendon  
School of Education  
University of Michigan  
Plymouth, Michigan

Sam M. Stephenson  
Chief, Consultation, Evaluation and Training Section  
Division of Community Environmental Health  
Bureau of Environmental Health  
Michigan Department of Public Health  
Lansing, Michigan

William Veaser  
Upper Peninsula Power Company  
Dollar Bay, Michigan

Billy H. Conn  
Superintendent  
Ingham-Eaton Catholic Schools  
Lansing, Michigan

Senator David A. Plawecki  
Dearborn Heights, Michigan

Charles Supercynski  
Instructor, Gogebic Community College  
Ironwood, Michigan

Wilson Kispert  
Biology teacher  
Cass Technical High School  
Detroit, Michigan

State Representative Raymond Baker  
Farmington, Michigan

Dr. Paul Housepian  
Science Coordinator  
Detroit Public Schools  
Detroit, Michigan

Leroy Hyter  
Science teacher  
MacKenzie High School  
Detroit, Michigan

Joseph Kilpatrick  
Principal, Cherry Knoll Elementary School  
Traverse City, Michigan

Jack W. Kammeraad  
Science and Environmental Education Specialist  
State Department of Education  
Lansing, Michigan 48902

## MINNESOTA

STATE E.E. CONTACT:

John Miller  
E.E. Program Coordinator  
Department of Education  
644 Capitol Square Building  
550 Cedar Street  
St. Paul, Minnesota 55101  
(612) 296-4069

STATE PLAN ACTIVITIES:

In 1969 the Minnesota State legislature enacted a law requiring the Minnesota Departments of Education and Natural Resources to prepare a program of environmental education for elementary and secondary schools in the State. In 1972, funds were awarded under the E.E. Act for the development of a state plan. For more information contact:

Dr. William Miles, Chairman  
Minnesota Environmental Education Council  
c/o Ronald J. Laliberte  
State Department of Education  
St. Paul, Minnesota

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Upper Mississippi River Environmental Studies Corporation  
Dr. Calvin R. Fremling, President  
Pasteur Hall  
Winona State College  
Winona, Minnesota 55987  
(507) 457-2095

Three Winona Colleges - Winona State College, St. Mary's College, and the College of St. Teresa - have formed a non-profit corporation in order to establish a large cooperative river facility to be used for research and teaching throughout the three schools. The facility will be situated near Winona, Minnesota.

River Research Foundation  
Dr. Calvin R. Fremling  
Professor of Biology  
Winona State College  
Winona, Minnesota 55987  
(507) 457-2095

The Foundation maintains a hydrobiology station on the Mississippi River which is located just below the U.S. Army Corps of Engineers lock at Fountain City. The station is used for research and study by members of the faculty as well as by students of Winona State College.

The Biology Department at St. Mary's College at Winona received FY 72 monies under the E.E. Act for the training of inservice education personnel at the university level. Rory Vose is project director.

Mr. Greg Shadduck  
c/o Dr. Allan H. Humphreys  
Department of Elementary Education  
University of Minnesota  
Minneapolis, Minnesota 55455

This student prepared curriculum materials, "Development of Environmental Studies Blocks for High School Students," as a project and reported on them at the December 1971 meeting of the American Association for the Advancement of Science.

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Wood Lake Nature Center  
City of Richfield  
6700 Portland Avenue  
Naturalist: Don Fondrick  
(612) 861-4507

Minnesota Environmental Control                    ens Association  
Central Manor  
26 E. Exchange  
St. Paul, Minnesota 55101  
(612) 222-2998

A non-profit organization concentrating on action to prevent environmental exploitation. Evaluates and publicizes problems and dangers of pollution; alerts public to the necessity for active participation in the protection of natural resources. The Association received FY 1972 monies under the E.E. Act for the development of a process curriculum for the community, Marilyn Feser is the project director.

Metro Clean Air Committee  
1829 Portland Avenue  
Minneapolis, Minnesota 55404  
Director: Sandra Knudson  
(612) 333-5463

### Arrowhead Environmental Education Information

The Committee was organized by the Agricultural Extension Service in April of 1968, to improve the methods by which school systems could obtain help in environmental education, to provide an organizational structure to bring local and state-wide resource knowledge to north-eastern Minnesota schools in environmental education, and to coordinate educational efforts with resource management agencies, public conservation groups, universities and colleges with the public school system's need for environmental education.

Membership of this committee includes:

Duluth Junior League  
 Duluth Park Department  
 Silver Bay School System  
 U.S. Forest Service  
 Duluth Board of Education  
 Erie Mining Company  
 Board of Education, Hibbing  
 United Northern Sportsmen  
 Northern Environmental Council  
 University Biology Club  
 Minnesota Power and Light  
 Northwest Paper Company  
 Two Harbors School System  
 Duluth Diocesan Office of Education  
 Environmental Learning Center, Issabella  
 Carlton County Environmental Education Committee  
 Students for Environmental Defense  
 Eveleth Board of Education  
 Izaak Walton League  
 Northeast Forest Experiment Station  
 Cook County School System  
 St. Louis County Planning and Zoning Department  
 Minnesota Department of Natural Resources, Division of Lands and Forestry  
 Minnesota Department of Natural Resources, Division of Soils and Waters  
 Minnesota Department of Natural Resources, Division of Game and Fish  
 Department of Interior, Water Lab

Northern Environmental Council  
 601 Christie Building  
 Duluth, Minnesota 55802  
 (218) 727-2424

NOREC's primary function is to provide a service center for member organizations and individuals throughout a region comprised of upper Minnesota, Wisconsin, Michigan, North Dakota, and South Dakota. "The Council's role is to provide its members with the knowledge needed for positive problem solving on issues which effect the environment." The Council puts out "Policy Research Papers."

Minnesota Public Interest Research Group (MPIRG)  
2418 University Avenue, S.E.  
Minneapolis, Minnesota 55414  
(612) 376-7554

A PIRG group which has been organized here - a committee inspired by Ralph Nader. It is the goal of MPIRG "to combine the concerns and enthusiasm of students with the training and experience of professionals - scientists and lawyers - and by using an educational format to protect and advocate the public interest in these areas: environment and ecological concerns, resource and land-use planning, protection of natural areas, occupational safety and health, racial and sexual discrimination, and other similar long-range problems of Minnesota."

Minnesota Pollution Control Agency  
717 Delaware Street, S.E.  
Minneapolis, Minnesota 55440  
(612) 378-1320  
Executive Director: Grant Merritt

Sierra Club  
North Star Chapter  
P. O. Box 80004  
St. Paul, Minnesota 55108

Minnesota Committee for Environmental Information  
P. O. Box 14207  
University Station  
Minneapolis, Minnesota 55414

The Committee is one of the Scientists Institute for Public Information science information committees.

Minnesota Association for Conservation Education, Incorporated  
Jack Mauritz, President  
Hennepin County Park Reserve  
Rt. 1, Box 32  
Maple Plain, Minnesota 55359

The Association was created "to cooperate with existing organizations, agencies, and/or institutions in the stimulation and promotion of conservation education and the wise use of natural resources in addition to the promotion of conservation education."

Midwest Environmental Education and Research Association (MEERA)  
295 Summit Avenue  
St. Paul, Minnesota 55102  
(612) 222-3350

Member of Ecology Center Communications Council.

Northern States Power Company  
Nathan Haw, Manager of Environmental Information and Education  
Minneapolis, Minnesota 55401

Friends of the Wilderness  
William H. Magie, Executive Secretary  
3515 East Fourth Street  
Duluth, Minnesota 55804  
(218) 724-7227

Friends of the Wilderness is a non-profit organization which was founded in order to coordinate the volunteer efforts of thousands of individuals and hundreds of organizations in the preservation of the wilderness character of the Boundary Waters Canoe Area of the Superior National Forest.

Creative Educational Society, Inc.  
Product Information  
515 N. Front Street  
Mankato, Minnesota 56001

Environmental Education Center  
Isabella, Minnesota

Minnesota Environmental Control Citizens Association (MECCA)  
 Chairwoman, education committee: Marilyn Feser

A group of citizens that does research in environmental problems. Makes appearances at hearings, takes legal suit action against polluters, helps to educate the citizenry about environmental problems, and assists schools in educational plans.

Twin City Area Urban Corps  
 John Atkinson, Director  
 1603 Chicago Avenue, South  
 Minneapolis, Minnesota 55404  
 (612) 348-6967

Sponsors E.E. Programs, among others.

Minnesota Arts & Sciences Museum  
 30 East 10th Street  
 St. Paul, Minnesota 55101

A division within the Minnesota Council of Arts and Sciences. The Museum operates a Science Museum, operates a Nature center (Lee and Rose Warner Nature Center) that takes students to the center for trail experiences in nature studies, cooperates with the schools in providing in-school programs in science, drama, poetry, etc, offers workshops to teachers in Nature Study, and offers classes in Nature Study, Art, Photography etc.during the summer to school students.

State of Minnesota Department of Natural Resources  
 Roger Grosslein, Consultant in Environmental Education

Community Design Center of Minnesota  
 118 E. 26th Street  
 Minneapolis, Minnesota 55404  
 Executive Director: Thomas Walz  
 (612) 827-2608

Environmental Conservation Library (ECOL)  
 Minneapolis Public Labrary  
 300 Nicoliet Mall  
 Minneapolis, Minnesota 55401  
 Librarian: Julia Copeland  
 (612) 372-6609

A new special library within the public library designated by the 1971 legislature (State) as a state center for environmental information and supported by both public and private funds.

Minnesota Environmental Sciences Foundation, Inc.  
5400 Glenwood Avenue  
Minneapolis, Minnesota 55422  
James H. Leslie

Received FY 1972 monies under the E.E. Act for the training of teachers and community organizations to utilize environmental education techniques and materials.

Environmental Library of Minnesota, Inc.  
Diane Legg  
1222 4th Street, S.E.  
Minneapolis, Minnesota

Received FY 1972 monies under the E.E. Act for the dissemination of curriculum materials to the community.

Pollution Control Agency  
717 Delaware Avenue, S.E.  
Minneapolis, Minnesota 55440

Administers the State statutes covering water pollution, air pollution, solid waste control, and related land use.

Clean Air, Clear Water - Unlimited  
Route 1  
South St. Paul, Minnesota 55075

Works to inform the public of many serious environmental problems confronting man. Programs include participation at regulatory agency hearing, legislative activity at the state level, research scholarship on pollution problems, and publication of a newsletter.

Ecology Placement Service  
1711 Lincoln Avenue  
St. Paul, Minnesota  
Jim Dunlop  
Jim Holm

Environmedia Inc.  
2642 University Avenue  
St. Paul, Minnesota 55114  
(612) 645-9356

A non-profit research organization "engaged in interdisciplinary programming, planning, and design for the human environment." It represents the integration and synthesis of two processes: environment and communication,

Minneapolis Public Library, Environmental Conservation Library (ECOL)  
300 Nicollet Mall  
Minneapolis, Minnesota

The library received FY 1972 funds under the E.E. Act for the development of supplemental curriculum materials for use by the general public. Julia Copeland is project director. They have worked with the Department of Education, Public Library Section of St. Paul in setting up a special Environmental Conservation Library, which it houses and operates. The special library serves the people of the entire state of Minnesota, and does not limit its use.

RESOURCE MATERIALS AVAILABLE:

Mounds View Schools, District No. 621

Available curriculum materials:

Science Curriculum Guide, Grades 10-12, Vol. II.  
Earth Science Curriculum and Resource Guide, Grades 7-12, Vol I.  
Earth Science Curriculum and Resource Guide, Vol II.  
Environmental Education Curriculum, Grades 10-12, Teacher's Resource Guide.  
Environmental Education Curriculum, Grades 7-9, Teacher's Resource Guide.

The Instructor Publications, Inc  
Department 1014  
P. O. Box 6108  
Duluth, Minnesota 55806

Now available are two poster sets with accompanying teacher's manuals and a handbook of activities for environmental studies. ECOLOGY POSTERS - 12 large (12½ by 16") display posters graphically illustrate basic concepts and ecological cycles operating in the natural environment. Each set is \$3.50; order #750.

ECO-PROBLEM POSTERS - 12 giant (16 by 25") posters, printed on white board in two colors and a 16 page teachers guide. Each poster presents an attention getting photograph that illustrates a specific Eco-Problem. Opposite the photo, several factors contributing to the problem are

illustrated and explained, Each set is \$3.50; order #753.

Also available: Outdoor Activities for Environmental Studies - a 48 page book of field tested activities in monitoring environmental features. \$1 35 each; order #369.

Creative Educational Society, Inc.  
Product Information  
515 N. Front Street  
Mankato, Minnesota 56001

Minnesota Earth Journal  
317 Cedar Avenue  
Minneapolis, Minnesota

A non-profit organization which puts out the Minnesota Earth Journal at \$3.00 a subscription (12 issues) or 25¢ at the newstand.

NASCO Nature Study Aids  
Red Wing, Minnesota 55606

Curriculum Materials (52 units)

Golden Valley Environmental Science Center  
Mr. Richard Myshak  
5400 Glenwood Avenue  
Minneapolis, Minnesota 55422

POSSIBLE RESOURCE PEOPLE:

Richard Barthelemy  
Education Director of Natural History  
University of Minnesota  
(612) 373-3193

Arlyn Kline  
Professor of Education  
Mankato State College  
Mankato, Minnesota

Has directed E.E. activities and studies, and has written and developed E.E. materials.

Dean Abrahamson  
Associate Professor of Anatomy and Laboratory Medicine  
University of Minnesota

Founder and former Chairman of the Minnesota Committee for Environmental Information and Vice-Chairman of the Scientists' Institute.

David Bailey  
Gustavus Adolphus College

Consultant to Mounds View project curriculum materials development.

Stuart Bay

An Associate with ENVIRONMEDIA in St. Paul. An award-winning filmmaker who teaches photography, film and an introduction to visual communication at the University of Minnesota.

Edmund C. Bray  
Golden Valley Environmental Center

Consultant to Mounds View project curriculum materials development.

Richard Myshak  
Executive Director  
Minnesota Science Foundation, Inc.  
5400 Glenwood Avenue  
Golden Valley, Minnesota 54422

Howard Peterson  
Orono Schools  
Consultant to Mounds View project curriculum materials development.

Roger Walker  
Hamline University

Consultant to Mounds View project materials development.

Brian Wessel  
Assistant Planner  
University of Minnesota

An architect who brings to ENVIRONMEDIA a strong background in urban and institutional planning. He has worked on campus developmental planning in the areas of housing, transit, and educational institute coordination. He also served a liaison function between the University and community agencies.

Roger Wangen, Social Studies Consultant  
State Department of Education

Consultant to Mounds View project curriculum materials development.

Alan Robinette

An architect and natural resource specialist whose expertise grows out of numerous projects ranging from ecological inventory and interpretation, through site selection and feasibility studies to detail design and planning. Prior to joining ENVIRONMEDIA he worked for the Philadelphia firm of Wallace, McHarg, Roberts, and Todd, the University of Minnesota's Experimental City Project, and the Metropolitan Council of the Minneapolis-St. Paul area. He was involved as the national chairman of Task Force 70s - a project of the American Society of Landscape Architects intended to stimulate collective professional involvement in the environmental crisis.

Alan Brook  
University of Minnesota

Consultant to Mounds View project curriculum materials development.

Dr. Eville Gorham  
University of Minnesota

Consultant to Mounds View project curriculum materials development.

Roger Grosslein  
State Department of Natural Resources

Consultant to Mounds View project curriculum materials development.

Roger House  
Bloomington Schools

Consultant to Mounds View project curriculum materials development.

Laurence Kivens, Associate  
ENVIRONMEDIA  
St. Paul, Minnesota

A journalist whose interests lie in the fields of architecture, city planning, and communication research.

Robert Minish, Associate  
ENVIRONMEDIA  
St. Paul, Minnesota

His work in the field of environmental law includes participation in court actions seeking to prevent the construction of a freeway through Minnehaha Park in Minneapolis and to preserve the Boundary Waters Canoe Area from mineral exploration.

## MISSISSIPPI

STATE E.E. CONTACT:

Mr. James Hancock  
Advisor of E.E.  
Division of Instruction  
P. O. Box 771  
Jackson, Mississippi 39205  
(601) 354-6965

Dr. Isadore L. Sonnier  
Associate Professor of Science Education  
University of Southern Mississippi  
Oxford, Mississippi  
(601) 266-7213

Dr. Jack W. Carrol  
Environmental Specialist  
Cooperative Extension Service  
P. O. Box 5406  
Mississippi State, Mississippi 39762

STATE PLAN ACTIVITIES:

The modified plan will be sent for governmental approval - legislative and gubernatorial. After this implementation procedure, the plan will be reviewed one final time. Projections for this date are sometime late in 1972. The plan includes guidelines for E.E. in the state for all segments of the population. There will also be a data reference center to provide central clearinghouse for E.E. materials.

E.E. FUNDED PROGRAMS FOR 1972:

Fowden Maxwell  
Entomology Department  
Mississippi State University  
P. O. Box EM  
State College, Mississippi 39762

The development of a process curriculum based on integrated pest control.

SCHOOL PROGRAMS AND ACTIVITIES:

Technician Training: The Mississippi Air and Water Pollution Control trains operators already employed by them to run their new pollution control machines. The program was initially funded by the Department of Labor with a grant of \$105,000 but the funding has now been taken over by the State government.

Nonformal Education

Soil Conservation Service  
Post Office 610  
Jackson, Mississippi 39205  
(601) 948-7821

The Soil Conservation Service prepares different information kits for women's clubs, school children, girl and boy scouts, garden clubs, etc., informing these people about conservation problems such as soil erosion and chemicals in the soil. They also offer speakers and 20 different slide scenes on wildlife areas throughout the State.

Cooperative Extension Service  
P. O. Box 5406  
Mississippi State, Mississippi 39762

U.S. Forest Service  
P. O. Box 1291  
Jackson, Mississippi 39205

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Institute for Space and Environmental Sciences and Engineering  
Charles W. Bouchillon, Director  
Mississippi State University  
State College, Mississippi 39762  
(601) 325-4915

ISESE was established for the promotion, development, and administration of programs of research which are multidisciplinary in nature. Emphasis is presently focused upon development of research programs in ecological and environmental sciences, remote sensing, data systems, and data management.

Plans are being made for offering multidisciplinary courses at undergraduate and graduate levels, especially for education majors.

Rust College  
 Interdisciplinary Explorations Program  
 Division of Freshman Studies  
 Mrs. Alberta M. Lindsey, Chairman of Freshman Studies  
 Holly Springs, Mississippi

In the summer of 1967, the Faculty and administrators of this college inaugurated the Interdisciplinary Explorations approach to learning

Dr. Harold Hein, Director  
 Teacher's Conservation Workshop  
 University of Mississippi

About 45-50 teachers each summer from northern section of Mississippi are provided scholarships to attend 2 weeks of workshop activities (includes many aspects of environmental concerns as well as conservation of natural resources). Cooperative effort is manifested by participating agencies, businesses and institutions. (5th year).

Delta State College  
 Mr. Melbourne Miller, Director  
 Teacher's Conservation Workshop

71 teachers participated in the first session during the summer of 1973. About one half of the participants received scholarships similar in structure to the one above.

Mississippi Forestry Association  
 Cooperative Extension Service  
 University of Mississippi Forest Lands  
 Mississippi State Department of Education  
 Ben Davis  
 Executive Director of Mississippi Forestry Association  
 1111 Standard Life Bldg  
 Jackson, Mississippi 39205

Natchez Trace Parkway  
 John Mohlhenrich, Chief  
 Park Interpreter  
 Rt. 1, NT - 143  
 Tupelo, Mississippi 38801

Three ESA with camping facilities - held day camps at several sites providing environmental studies for each camper. Cooperative effort with several groups.

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Northeast Mississippi Resource Conservation and Development Project  
 Thomas Pounds, Chariman

Natchez Trace National Park Service  
 Tupelo, Mississippi  
 Bruce Black, Acting Superintendent  
 John Mohlhenrich, Naturalist

Committee for Leaving the Environment of America Natural (CLEAN)  
 P. O. Box 103  
 Starkville, Mississippi 39759  
 Glenn Liming, Chairman

POSSIBLE RESOURCE PEOPLE:

Dr. Harold Hein  
 Professor of Education  
 University of Mississippi  
 Oxford, Mississippi  
 (601) 232-7117

Dr. Hein directs a Conservation Education workshop for about 45 teachers. Courses include soil, water, wildlife management, forestry, and sociological aspects of conservation. The program is funded by local wood-using industries.

Dr. Charles Brent  
Faculty Advisor  
Protect Your Environment  
University of Mississippi  
Box 314 Southern Station  
Hattiesburg, Mississippi  
(601) 266-7212

Mr. Ben Davis  
Mississippi Forestry Association  
Jackson, Mississippi  
(601) 354-4936

Dr. Harold T. White  
510 Lamar Building  
Jackson, Mississippi

Member of National Advisory Council on E.E. President, Northeast Mississippi Junior College. Besides being an educator for a number of years, he also works for organizations such as the Mississippi Economic Council, the Appalachian Regional Commission, and the Northeast Mississippi Planning and Development District, to maintain ecological balance.

Mr. Freddie Jordan  
Mississippi Forest Commission  
Robert E. Lee Bldg.  
Jackson, Mississippi 39205

Dr. John M. King, Director  
Mississippi Park Commission  
Robert E. Lee Bldg.  
Jackson, Mississippi 39205

## NORTH CAROLINA

STATE E.E. CONTACT:

Paul H. Taylor  
 Director, Environmental Education  
 Department of Public Instruction  
 Room 284  
 Raleigh, North Carolina 27611

STATE PLAN ACTIVITIES:

The North Carolina state plan, funded by OEE for 1972, will: disseminate E.E. materials, information and programs. They will focus on three major areas of activity: (1) program development, (2) agency coordination, (3) public information.

ENVIRONMENTAL EDUCATION PROGRAMS FUNDED FOR 1972:

Art Hurow  
 University of North Carolina  
 Chapel Hill, North Carolina

The program will develop curriculum materials based on the relationship between population and the environment for use by community colleges.

SCHOOL PROGRAMS & ACTIVITIES:

FY 1971 Title III Funds allocated to:  
 Carteret County Board of Education  
 Courthouse Annex  
 Box 600  
 Beaufort, North Carolina 28516

"School Community Cooperative Environmental Studies Project"  
 Director, T. Lenwood Lee

A program designed to promote self-directed and investigation-oriented learning which molds schooling with education in the "real life" of the community and the total environment by placing students in actual situations to observe the functioning of the socioeconomic system will be instituted. Three classes of juniors and seniors of "moderate abilities and ambitions" will be placed in a full-year, half-day elective course replacing their regular English, social studies, and science

program in order to conduct individual and group field research in the community. Necessary skill development in these areas will be acquired through the research/reporting techniques, and equivalent credit will be granted. A control group will be utilized. A school-community advisory board, on which students will represent the major school involvement, will be formed.

A High School Course in Marine Ecology  
 Unit 2: Ecosystems by Judith M. Spitsber  
 Regional Marine Science Project  
 Carteret County Public Schools  
 Beaufort, North Carolina 28516

The second in series of 4 units containing preliminary edition of lectures, lab exercises and field trips as used in Carteret County Public Schools, adapted from many sources to provide guidelines for teachers and reference materials for students.

Supplementary Educational Center  
 1636 Parkview Circle  
 Salisbury, North Carolina 28144  
 626-3462  
 Director: Nancy Raynor

Purposes: "to advance creativity in education and to provide unusual and varied programs in nature study and natural science, local and regional history, space science and visual fine art."

GROUPS & AGENCIES WITH INTEREST IN E.E.:

Triangle Universities Consortium on Air Pollution  
 An Association of Duke University, North Carolina  
 State University at Raleigh and the University of  
 North Carolina at Chapel Hill  
 Chairman: Professor Arthur C. Stern  
 School of Public Health  
 University of North Carolina  
 Chapel Hill, North Carolina 27514

Purpose: "To facilitate and coordinate joint and cooperative action by and among the Triangle Universities in education, research, and public service endeavors relating to air pollution..." It was founded in January, 1970.

Wake Forest Consortium  
Program Director: Dr. John Dimmick  
919-725-9711

This is an E.E. project for 29 countries West North Carolina.

Water Resources Research Institute  
Professor David H. Howells, Director

The primary concerns of the Water Resources Research Institute are to promote, develop, and coordinate water resources research which is responsive to the state, regional, and national water resources problems. The Institute welcomes the participation of interested faculty and students of the University in such projects.

Conservation Council of North Carolina  
Wallace Kaufman, President  
P.O. Box 36  
Bynum, North Carolina 27228

The Council was created to participate in and coordinate local, state, and regional programs of conservation and conservation education. Members publicize public and private matters affecting the health and well-being of citizens through past, present, or proposed changes in the natural environment of the state and region.

Durham Ecos  
Durham, North Carolina

Has received money from the Sierra Club for nonlegislature activities.

Environmental Education Center  
13 Veterans Drive  
Oteen, North Carolina 28805  
Contact: Dr. Larry Liggett

Nature Science Museum  
Reynolda Village  
Winston-Salem, North Carolina 27106  
725-0591

Curriculum materials are under development here. Presently involved in a pilot program designed to test the feasibility of incorporating units into the elementary curriculum in Winston/Salem/Forsyth County Schools.

Institute for Environmental Health Studies  
Dr. Daniel A. Okun, Director  
University of North Carolina  
Chapel Hill, North Carolina 27514  
(919) 966-1171

The Institute provides an organization within the University for developing ways and means to increase the number and improve the quality of graduate students who are preparing for careers in teaching, research, and practice in various fields of environmental health. Workers are often scientists, engineers, or physicians who have gone beyond their specialty and have undertaken further study in environmental health.

Cellu-Products Company

A paper recycling mill conducts tours of its facilities for groups and individuals and encourages the public to "come and see for yourself". Visitors are shown both the companies recycling operations and its extensive water treatment facilities.

Mr. Joe C. Matthews  
Government Center  
Winston-Salem, North Carolina 27101

Member of Ecology Centers Communications Council

Department of Water and Air Resources  
P.O. Box 27048  
Raleigh, North Carolina 27611

POSSIBLE RESOURCE PEOPLE:

Carl Zebel  
Environmental Protection Agency  
Research Triangle Park  
North Carolina 27711

Wrote concerning what educators and their students should know about air pollution for a National Association of Biology Teachers Publication.

Mary Dawn Liston  
Davidson, North Carolina 28036

Free-lance Environmental Education Consultant. Worked on Michigan state plan proposal submitted Jan. 28, 1972 to OEE. (was funded)

Harry Kramer  
Air Training Headquarters  
EPA  
Raleigh, North Carolina  
919-549-8221

Dr. Theodore R. Speigner  
Division of Resource-Use Education  
North Carolina Central University  
Durham, North Carolina  
919-682-2171

Dean Painter  
Pitt Technical Institute  
Greenville, North Carolina 27834

Mrs. Mary Beth Durner  
Environmental Education Center  
13 Veterans Drive  
Oteen, North Carolina 28805

Dr. Larry Liggett  
Environmental Education Center  
13 Veterans Drive  
Oteen, North Carolina 28805

## OHIO

STATE CONTACT:

Gene Knight, Supervisor  
Environmental Education  
State Department of Education  
65 South Front Street  
Columbus, OH 43215  
(614) 466-3224

STATE PLAN:

The State Department of Education has organized a State Advisory Committee to develop a state plan for environmental education. The Advisory Committee is made up mostly of state education officials, but it has a small task force collecting local or community input. Research and development of curriculum materials is now being developed to complement the state plan.

LEGISLATION:

At this time no bills have been introduced that directly affect educational programs through ecology. However, there are three bills which could affect Environmental Education in the future:

S. B. 33 - Create an Ohio Commission on the Environment.

H. B. 71 - Establish a Department of Environmental Quality.

H. B. 140 - Establish a Joint Legislation Committee to Oversee the Condition of the Environment.

There is a bill now being drafted which would revise original educational statutes so that they would include environmental education. This bill is being spearheaded by the Governor's Task Force on Environmental Quality. The bill would also include a clause which would establish a State Environmental Protection Agency.

FUNDED PROJECTS FOR 1972:

Judith Schultz  
 University of Cincinnati  
 9555 Plainfield Road  
 Cincinnati, Ohio 45236

Program for the training of secondary teachers in the use of interdisciplinary approach to the relationship between population and the environment.

Joseph Chadbourne  
 Institute for Environmental Education  
 9811 Euclid Avenue  
 Cleveland, Ohio 44106

Demonstration of a model secondary program using the monitoring of a watershed as a vehicle for environmental education.

Lowell F. Bernard  
 Cleveland Health Museum  
 9811 Euclid Avenue  
 Cleveland, Ohio 44106

For the training of students and teachers in the Tilton approach to environmental studies.

Ann Thomas, Project Director  
 Environmental Clearinghouse  
 One Stranahan Square  
 Toledo, Ohio 43603

Pilot volunteer based environmental clearinghouse to coordinate local environmental education activities and disseminate environmental information to the local community.

SCHOOL ACTIVITIES:

Cleveland Horticultural Program  
 in Public Schools  
 Mr. Herbert G. Myers, Director

Various types of programs are being carried out.

Nature Center  
Canton Public Schools  
Canton, Ohio

Contact: William Rohr  
Science and Math Consultant

Center for the Development of Environmental Curriculum  
Dennis Wint, Director  
Willoughby, Ohio

Toledo Public Schools  
Elm and Manhattan Streets  
Toledo, Ohio 43608

In October of 1970, the Toledo Board of Education authorized the establishment of a broad based school-community committee to conceptualize and design an Environmental Education program (K-12). In the fall of 1971 the Environmental Education Program was integrated into the curriculum of four inner-city schools. The Board of Education employed four University of Michigan students to serve as Environmental Education Consultants to four pilot schools on a part-time basis to assist in the establishment of the program, to evaluate his acceptance by the school-community, and to make recommendations regarding ways to improve upon its success and acceptance.

Contemporary Arts Center  
115 East 5th Street  
Cincinnati, Ohio 45202  
Pope Coleman, Acting Director  
(513) 721-0390

An art education resource located in the central business district of Cincinnati. It has a regional interest and a twenty year history of commitment to urban Man-Made Environment projects. Presently, the CAC is conducting a pilot Man-Made Environment teacher training project with the public school system of Cincinnati. "It would like to introduce the new Man-Made Environmental curriculum into existing art education programs in a three-state metropolitan area. Cincinnati Public School Art Teachers are participating in a seventh grade program in Environmental Education, "Our Man-Made Environment," developed by the Group for Environmental Education and sponsored by the American Institute of Architects. A further more informal program is being conducted with elementary school children in the Forest Hills School District.

UNIVERSITY AND COLLEGE ACTIVITIES:

Institute of Environmental Sciences  
Miami University  
(513) 529-2732

School of Natural Resources  
The Ohio State University  
Columbus, Ohio 43210  
(614) 422-5589

Provides an interdisciplinary approach to Environmental Education and natural resource management curricula.

Eco-Federation Data Bank  
And Education Center  
Lakeland Community College  
State Route 306 and Interstate 90  
Kirtland, Ohio 44094  
(216) 951-1000

Denison University Biological Reserve  
Robert W. Alrutz, Director  
Denison University  
Granville, Ohio 43023  
(614) 582-9181

The Denison Biological Reserve was established in order to provide both educational and research facilities for study of the effects of human activity on natural systems. Graduate students participate in programs in environmental education as well as in ecological research.

Environmental Studies Center  
Dr. Robert Bieri, Chairman  
Antioch College  
Yellow Springs, Ohio 45387  
(513) 767-7331, Extension 475

Environmental Studies Center began as a concerned student-faculty group about four years ago. Today it comprises one of the four centers of the Antioch Science Institute. It encourages interdisciplinary studies, sponsors courses, and offers interdisciplinary environmental studies degrees. Students and faculty are involved in a wide range of local, regional, and national research and action. The Environmental Education Program was initiated by the Environmental Studies Center in

order to provide technical expertise and information on Environmental Issues to local Community action groups.

Environmental Studies Center  
 Dr. Raymond J. Endres, Director  
 Bowling Green State University  
 Bowling Green, Ohio 43402  
 (419) 372-2318

The Center was created in order to assemble information related to the study of human environmental problems and to make this available to those who are concerned with them; to encourage interdisciplinary research related to human environmental problems among the faculty and students of the University; to sponsor community service projects utilizing this research; and to assist faculty in developing research and community service project proposals related to the environmental problems.

Bowling Green State University  
 Environmental Studies Center  
 Bowling Green, Ohio 43404

Development of research and training programs that tie together learning and environmental problems, to be used in K-6 curriculum. In short, the program is an attempt to improve the instruction in grades K-6 in the area of Environmental studies.

University of Cincinnati  
 College of Design, Architecture,  
 And Art  
 Project Director, Department of Art  
 (513) 475-4143

Program is developing an art curriculum in environmental education to be used in local school systems K-12 and teacher training.

GROUPS AND AGENCIES WITH INTEREST IN ENVIRONMENTAL EDUCATION:

Dayton Museum of Natural History  
 2629 Ridge Avenue  
 Dayton, Ohio 45414  
 Executive Director: E. J. Koestner  
 (513) 275-7431

Involved with bringing environmental awareness to individuals and families; published "The Do-It-Yourself Environmental Handbook."

The Ohio Academy of Science  
445 King Avenue  
Columbus, Ohio 43201  
Executive Director: John Melvin  
(614) 299-9097

Has an Ecology Committee whose members are professors at Ohio colleges and universities.

Lake Erie Junior Nature and  
Science Center  
28728 Wolf Road  
Bay Village, Ohio 44140  
Director: Elberta Fleming  
(216) 871-2900

The Environmental Education goals of the Center are programmed to meet the educational needs of all ages starting with preschool children, continuing through high school; it has trained environmental specialists, physical resources and teaching materials for Environmental Education programs.

Cincinnati Nature Center  
4949 Tealtown Road  
Milford, Ohio 45150  
Director: John Oney  
(513) 831-1711

Ohio Environmental Council  
248 Old West Wilson Bridge Road  
Worthington, Ohio 43085

Glen Helen Outdoor Education Center  
Dayton, Ohio

Contemporary Arts Center  
115 East 5th Street  
Cincinnati, Ohio 45202  
Acting Director: Pope Coleman  
(513) 721-0390

Nature Study Headquarters  
Burnet Woods  
Cincinnati, Ohio

California Nature Preserve  
 Outdoor Education Area  
 5400 Kellogg Avenue  
 Cincinnati, Ohio

Environmental Action Groups  
 Yellow Springs, Ohio 45387

A focus for citizen involvement in environmental matters in Yellow Springs. It was formed in 1971 by a village councilman. Since its inception it has been involved in community education, household ecology, and an Environmental Newsletter as well as community action, activities such as earth week clean up and glass and paper recycling.

Environmental Clearinghouse, Inc.  
 Box 2125  
 One Stranahan Square  
 Toledo, Ohio 43603  
 Ann Thomas, Chairman

A non-profit organization whose main purposes are education coordination, and involvement; to educate and inform the general public on environmental matters, to coordinate existing groups, organizations, and efforts, and to promote, aid, and encourage community involvement on environmental affairs.

Joseph H. Chadbourne, President  
 Institute for Environmental Education  
 8911 Euclid Avenue  
 Cleveland Heights, Ohio 44106  
 (216) 231-5010  
 Alan McGowan, Vice President  
 Thomas W. Offutt, Vice President

The Institute is established to assist schools to plan, design, and carry out projects that can benefit local areas in Ohio. In Northeast Ohio, The Cuyahoga River Watershed Project offers initial and ongoing support services. The program grew out of concern of some high school students about water resources of Northeast Ohio. The Institute is now director and sponsor of the Cuyahoga River Watershed Project. A newly-formed corporation in the State of Ohio IEE is the successor to the Tilton Water Pollution program. Institute personnel have for the past three summers run a series of Environmental Education teacher-training workshops that have won national acclaim. IEE is now developing an update system for the Curriculum Activities Guide in Water Pollution called "Telefeed," which will allow participants to develop activities in all areas of environmental education, and have them circulated to all other participants. Subscribers to this system will get a monthly package of activities and updated materials.

William E. Scheele, Director  
Cleveland Museum of Natural History  
Wade Oval, University Circle  
Cleveland, Ohio 44106

Council member of the American Association for the Advancement of Science (AAAS) Commission in Science Education. "Aims to maintain a public museum of natural history of the broadest possible scope, to educate all levels, and to conduct basic scientific research. The program includes a planetarium, display galleries, four sanctuaries totalling more than 1,000 acres, workshops, classrooms, research quarters, a living animal collection, a labelled nature trail in twelve woodland acres in the center of the city, a trailer museum, a distinguished speakers schedule, field trips throughout the U.S."

The Environmental Control Commission  
Yellow Springs, Ohio 45387

Established in 1971 as an advisory body to the Village Council on environmental issues. Since its inception it has begun a study for a sewage treatment project.

Hunatech Foundation  
240 West South College  
Yellow Springs, Ohio 45387  
(513) 767-5891  
Contact: Dr. Geoffrey Stanford

A non-profit corporation; objectives: "to coordinate resources of humanity, nature and technology for research and development of human environments, especially those which are ecologically regenerative in relation to Earth's biosphere, including systems for recycling of domestic wastes yielding organic plant foods, and to design and promote the broadest possible use of educational tools, structures and systems for public information concerning man's urgent need to understand nature and his dependent relationship to it, and the necessity of changing practices degenerative to biospheric balances and lifecosystems upon which further human evolution and future survival depend."

Friends of Animals of Ohio  
Mrs. Mary Ann Davis, Ecology Director  
P.O. Box 314  
Mentor, Ohio 44060

Albertus Magnus Biology Club  
c/o Richard T. Gies  
Lima Central Catholic High School  
Lima, Ohio 45805

Waste Watchers Recycling Center  
P.O. Box 4753  
Station B  
Columbus, Ohio 43202

United Animal Defenders, Inc.  
Mrs. Betty D. Taylor  
Environmental Action Director  
4908 Swetland Boulevard  
Richmond Heights, Ohio 44143  
(216) 731-7288

Federal Water Quality Administration,  
Regional Director  
Ohio Basin Region  
4676 Columbia Parkway  
Cincinnati, Ohio 45226

Lake Erie Junior Nature and Science Center  
Bay Village, Ohio

Allwood Audubon Center  
Dayton, Ohio

Teacher-naturalists here have helped in preparation of teaching materials.

Ohio Parks and Recreation Association  
Jack E. Miller, Executive Director  
City Building  
Springfield, Ohio 45501  
(513) 325-8754

This organization attempts to work for the improvement of parks and recreation programs, services and facilities throughout the state of Ohio.

Youngstown Chapter Zero Population Growth  
c/o Ralph Malmer  
3732 South Raccoon Road  
Canfield, Ohio 44406

Center for the Study of World Development  
Brian Zakem, Executive Director  
270 Calhoun Street  
University of Cincinnati YMCA  
Cincinnati, Ohio 45221

Adventure Ecology - Environmental  
Education Television Project  
Dr. Ken Light  
Ohio University, ETSEO  
4 1/2 West State Street  
Athens, Ohio 45701  
593-6572

Institute of Environmental Education  
Cleveland Health Museum  
8911 Euclid Avenue  
Cleveland, Ohio 44103

The Institute of Environmental Education, housed at the Cleveland Health Museum, has developed over the last four years the materials, processes, techniques and manuals to analyze and monitor watersheds in order to determine their environmental quality index. The Ford Foundation, NSF, EPA, Office of Environmental Education and local private foundations have funded this effort to the tune of approximately \$200,000.00. In Fiscal Year 1971, the Office of Environmental Education awarded \$35,000.00 to IEE to further develop the watershed materials.

Mrs. Irene E. Lewis  
 Butler County Community Action Commission  
 119 South Front Street  
 Hamilton, Ohio 45011

In cooperation with:

Dr. James Pelley  
 Miami University  
 Oxford, Ohio 45056  
 (513) 529-6825

Has undertaken the Roosevelt Community School Improvement Project which was initially funded by the Office of ER/HEW. Components of the project include improvement of the instructional program in E.E. in all schools of the target area, student involvement in recycling waste materials, a large scale community gardening project, development of a series of environmental awareness sites for use by school pupils and the public, field trips, clearance of condemned dwellings and conversion of space to recreational uses, community-wide clean up and beautification campaign, development of a long range plan for enhancing the environment of the community to include concerns for housing, land use, improved zoning, recreation, beautification, waste disposal, pollution control, and noise abatement.

Air Pollution Control League  
 of Greater Cincinnati  
 18 East 4th Street  
 Cincinnati, Ohio 45202  
 621-1669

The League is a non-profit organization which was incorporated January 29, 1906, under the laws of the State of Ohio.

ERIC  
 Dr. Robert W. Howe, Director  
 400 Lincoln Tower  
 The Ohio State University  
 Columbus, OH 43210  
 (614) 422-6717

There are 18 ERIC clearinghouses around the country, each with a basic contract with NIE. Every month ERIC puts out the RIE, Research in Education, a compilation of programs, reports, and educational materials, indexed, cross referenced, and abstracted. Also put our monthly is CIJE, Current Index to Journals in Education; a similar compilation of journal articles.

## SMEAC

The Science, Math, and Environmental Education Clearinghouse handles environmental education. SMEAC has three newsletters: Science, Mathematics, and Environmental Education. The EE newsletter, published eight times a year, offers timely reviews and sources for information and it is available for no charge. The SMEAC center, through its state EE supervisors, can provide information on all ERIC programs. ERIC also enters into other contracts for reviews and evaluations of environmental education developments.

RESOURCE PERSONS:

Miss R. Joyce Whitley  
320 Tower East  
Shaker Heights, Ohio 44122  
(216) 283-1330 or  
(216) 955-4364

Member of National Advisory Council on Environmental Education.  
Member, National Board of American Institute of Planners. A  
land and city planner in her agency: Whitley and Whitley  
Architects and Planners, she is sought after as a consultant to  
national programs and as a member of national councils.

Jerome Sirlin, Professor  
Environmental Studies  
(513) 767-7331

William J. Gealy  
Ohio State University  
Columbus, Ohio 43210

Ms. Judith Schultz  
10570 Fallis Road  
Loveland, Ohio 45140

Member of National Advisory Council on Environmental Education; also  
Professor of Biology  
Raymond Walters College  
9555 Plainfield Road  
Cincinnati, Ohio 45236

Board Member and Chairman of Task Force on Population, Ohio Environmental  
Council

Dr. Robert E. Roth  
School of Natural Resources  
The Ohio State University  
Columbus, Ohio 43210

Richard Parish  
Cuyahoga Community College

Familiar with Man and Environment (Miami - Dade)

George Davis  
The Ohio State University  
Columbus, Ohio 43210

Writer for Environmental Studies

Alexander Cohen, Chief  
National Noise Study  
Bureau of Occupational Safety  
and Health  
Public Health Service  
U.S. Department of HEW  
Cincinnati, Ohio 45202

Mr. Joseph Chadbourne, President  
Institute for Environmental Education  
2803 Scarborough Road  
Cleveland Heights, Ohio  
(216) 831-2200

Funded under the E.E. Act. Since 1969, the Tilton School in New Hampshire has conducted summer workshops for the seventh and twelfth grade teachers and students who are committed to environmental instruction. The project, now a recipient of Federal funds under the title of the Institute for Environmental Education of the University School of Chagrin Fall, Ohio, will carry on with curriculum development efforts with these changes. The new curricula will devote equal attention to the humanities and social sciences, whereas the 1969-70 version addresses itself primarily to the biological and physical sciences. The new curricula will be developed by, and distributed to, a larger number of teachers and students than was previously possible. The new curricula will also be developed by a more diverse group; specifically teachers and students from predominately black school systems will be enlisted as project participants.

Joe Chadbourne, with the offices of the Cleveland Health Museum, has developed materials for high school students and their own watershed for both biological and chemical content. They have trained over 300 students and teachers in their techniques and are developing a total northeast Ohio regional program based around the Cuyahoga River watershed.

Earl Finbar Murphy  
Professor of Law  
The Ohio State University  
College of Law  
1659 North High Street  
Columbus, Ohio 43210

Member of the Executive Staff of the Citizen's Task Force on Environmental Protection.

Mrs. William Fleming  
Lake Erie Junior Nature and  
Science Center  
28728 Wolfe Road  
Bay Village, Ohio 44140  
(216) 871-2900

Peter Junger  
Case Western Reserve University  
School of Law  
Cleveland, Ohio

Laurence Gerckens  
The Ohio State University  
School of Architecture  
Columbus, Ohio 43210

Alan Farkas, Executive Director  
Citizen's Task Force on  
Environmental Protection  
Governor's Office  
907 Departments Building  
Columbus, Ohio 43215

Mrs. Louis Odiome, President  
Humetch Foundation  
250 W. S. College Street  
Box 6  
Yellow Springs, Ohio 45387  
(513) 767-7852

A landscape architect, community planner. Member of 1971 International Youth Conference on the Human Environment.

David Hanselman  
SCOPE  
7417 Knollwood Drive  
Dayton, Ohio 45432

Richard Tybout  
The Ohio State University  
Department of Economics  
Columbus, Ohio 43210

Mr. Samuel S. Long  
Health Planning Association  
of Northwest Ohio  
225 Allen at West Wayne  
Maumee, Ohio 43437  
(419) 893-0282

Miss Kathie Gifford  
Environmental Clearing House, Inc.  
One Stranahan Square, Room 141  
Toledo, Ohio 43604  
(419) 841-5664

Dr. Kenneth Light  
Ohio University  
Athens, Ohio  
(614) 594-7227

Dr. Jim Barrow  
Hiram College  
Hiram, Ohio

Dr. Barrow is often referred to as America's Konrad Lorenz. He has an 80-acre farm outside of Hiram, Ohio on which he has done original behavioral studies on ducks, geese, other birds and mammals. Dr. Barrow in the past few years has been using biology students as resource people in the local secondary schools. The Jennings Foundation, local philanthropists, and the National Science Foundation have supported Dr. Barrow's basic scientific research.

Burt Spice  
Outdoor Education Director  
Toledo City Schools  
Manhattan and Elm  
Toledo, Ohio  
(409) 729-5111

Lee R. McCurrin  
Outdoor Education  
Toledo City Schools  
Manhattan and Elm  
Toledo, Ohio

Dennis Wint  
Willoughby East Lake City  
School District  
38106 Euclid Avenue  
Willoughby, Ohio 44094  
(216) 946-5000

Dan Zilko  
Canton Ecology Center  
218 Sixth Street, N.W.  
Canton, Ohio 44708

Paul Knoop, Director  
Aullwood Audubon Center  
1000 Aullwood Road  
Dayton, Ohio

Tri-District Outdoor Education  
885 Evening Street  
Worthington, Ohio 43085

Dean Freund, Director  
Worthington Outdoor Education  
600 West Dublin Granville Road  
Worthington, Ohio 43085

Mick Fitzsimmons  
Outdoor Education Director  
Richland Rural Life Center  
Mansfield City Schools  
Mansfield, Ohio 44902

Robert Brown  
 Outdoor Education  
 Troy City Schools  
 630 East Main  
 Troy, Ohio 45373

Burt Spice  
 Outdoor Education  
 Toledo City Schools  
 Manhattan and Elm  
 Toledo, Ohio 43608

Robert Meadows  
 Outdoor Education  
 Akron City Schools  
 70 North Broadway  
 Akron, Ohio 44308

Jack R. Minger, President  
 Ohio Audubon Council  
 4036 Cypress, N.E.  
 Canton, Ohio 44705

Ronald Reed, Director  
 Mohican School in the Outdoors  
 Perrysville, Ohio 44864

Robert Mentzer  
 Assistant Superintendent  
 Licking County Schools  
 600 Mount Vernon Road  
 Newark, Ohio 43055

MATERIAL RESOURCES:

Sierra Club has prepared and published a prospectus of a land use plan along the Miami River in Ohio.

The Cuyahoga River, A Manual for the Environmental Study of a Real System, by W. B. Clapham, Junior, 1970, 81 pages, \$2.00.

Available from: Department of Geology or University Bookstore  
 Case Western Reserve  
 Cleveland, Ohio 44106

"Do It Yourself Environmental Handbook" Published by the Dayton Museum of Natural History. The first part of the book is a 14 page action guide to give readers the overall picture of how we pollute. The remaining 60 pages are devoted to explaining how we can lessen our personal impact of the environment. PRICE - \$1.95 - from the Museum.

## SOUTH CAROLINA

STATE E.E. CONTACT:

Mrs. Alice Linder  
State Science Consultant  
801 Rutledge Building  
Columbia, South Carolina 29201

STATE PLAN ACTIVITIES:

South Carolina has had since 1969 comprehensive Environmental Education curriculum guides in all its schools.

ENVIRONMENTAL EDUCATION PROGRAMS FUNDED FOR 1972:

Mrs. W. Croft Jennings  
Columbia Environmental Coalition  
Box 4701  
Columbia, South Carolina 29201

SCHOOL PROGRAMS & ACTIVITIES:

Woodfern Environmental Center  
Anderson School District 5  
P.O. Box 439  
Anderson, South Carolina 29621

In school year 1971-72, Anderson School District Five received a grant under Title III to develop an environmental ecological center. The facility is located on 45 acres on Twin State Lake Hartwell. It has been able to serve 270 pupils, teachers and community members per week.

Environmental Science  
Miss Twig Tyler  
Westside High School, Pearman Dairy Road  
Anderson, South Carolina 29621  
(803) 226-7696

UNIVERSITY & COLLEGE PROGRAMS & ACTIVITIES:

Clemson University

Clemson University is in the process of developing an outdoor education program as a part of its division of recreation and outdoor education. It is cooperating with the State Department of Education in its efforts to develop an awareness of environmental concerns.

GROUPS & AGENCIES WITH INTEREST IN E.E.:

Environmental Ecological Education Center  
Mr. Jason E. Rucker, Jr., Director  
Box 439  
Anderson, South Carolina 29621

Implementation of People and Their Environment  
Mrs. Alice Linder  
Science Consultant  
801 Rutledge Building  
Columbia, South Carolina 29201

Greenville Environmental Education Program  
Brice Latham, Environmental Education Consultant  
Drawer 5575, Station B  
Greenville, South Carolina 29606

Ocean Science Conceptual Program  
Dr. Gary Awkerman, Director, Natural Sciences  
3 Chisolm Street  
Charleston, South Carolina 29403  
Paul Teller, Assistant Director  
(803) 722-8461

South Carolina Pollution Control Authority  
Owen Building  
1321 Lady Street  
P.O. Box 11628  
Columbia, South Carolina 29211

POSSIBLE RESOURCE PEOPLE:

Claud Barden  
Robert Gould  
Dean Carson  
South Carolina Commission of Forestry

Mrs. Ruby Johnson  
Charles McFaddin  
Teachers, East Clarendon School

Cecil Main  
Department of Elementary Education  
Winthrop College  
Rock Hill, South Carolina 29730

Mrs. Mamie Coker  
5th grade classroom teacher, Gray Court  
Member, NEA Task Force on E.E.

John W. Parris  
Executive Director of South Carolina State Soil and Water Conservation  
Commission (appointed in 1972)  
Member of South Carolina Conservation Education Council and director of  
State Wildlife Federation. Does work with conservation districts in the  
fields of youth involvement, sediment reduction programs, and land use  
planning.

South Carolina Forestry Association  
P.O. Box 274  
Columbia, South Carolina 29202  
(803) 253-5324

University of South Carolina  
Columbia, South Carolina 29208  
John Deane  
Director of the 1971 Pollution Symposium  
(803) 777-4128

South Carolina Environmental Action, Inc.  
P.O. Box 1008  
Hilton Head Island 29928  
Mr. O. D. Hack  
(803) 785-3311

South Carolina Advisory Council for Conservation Education  
Mr. F. E. DuBose, Chairman  
P. O. Box 67  
Trubeeville, South Carolina 29162

## TENNESSEE

STATE E.E. CONTACT:

Mr. R. Jerry Rice  
Specialist  
Tennessee Department of Education  
Cordell Hull Building  
Nashville, Tennessee 37219  
(615) 741-2421

STATE PLAN ACTIVITIES:

Joe Minor and the existing education department staff have formulated a state plan for environmental education. While there are no new personnel to handle the environmental education area, the present staff hopes that the new plan will coordinate programs throughout the state to improve the utilization of existing resources and materials.

E.E. PROGRAMS FUNDED FOR 1972:

Dr. Courtland S. Randall  
EEP Director  
P. O. Box 117  
Oak Ridge Associated Universities  
Oak Ridge, Tennessee 37830

Development of supplemental curriculum materials for use at the secondary level focusing on pesticide use.

Dr. Adrian Marie Hofstetter  
Le Moyne-Owen College  
807 Walker Ave.  
Memphis, Tennessee 38126

Development of a process curriculum involving college students in community work.

SCHOOL PROGRAMS AND ACTIVITIES:

W. B. Randolph  
Supervisor of Science  
Hamilton County Public Schools  
Chattanooga, Tennessee  
(615) 265-8221

Elizabeth Roller  
Outdoor Education Supervisor  
Metropolitan Nashville Public Schools  
2601 Bransford Avenue  
Nashville, Tennessee 37204  
(615) 255-8422

Tullahoma Outdoor Lab  
James Kemp (also Ronald Murray, Ronald Coleman)  
Tullahoma City Schools (Senior High)  
Tullahoma, Tennessee 37388  
(615) 648-6116

Mr. Ronald Childress  
Teacher-Naturalist  
Kingsport City Schools  
1701 East Center Street  
Kingsport, Tennessee 37664  
(615) 245-3155

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Glen Ervin Peterson  
Department of Biology  
Memphis State University  
Memphis, Tennessee 38111  
(901) 321-1586

He has held many posts in biology related fields, and has interest in international aspects of education.

Dr. Randolph Shields  
Maryville College Environmental Education Center  
Townsend, Tennessee 37882  
(615) 448-2211

**Space Institute**

Robert W. Kamm, Assistant to the Director  
University of Tennessee  
Tullahoma, Tennessee 37388  
(615) 455-0631

The Space Institute offers graduate education, post doctoral study, research and continuing education in advanced engineering and scientific disciplines. Qualified applicants may pursue full and part time graduate study programs which lead to degrees of M.S. and Ph.D. Opportunities are available for study in conventional areas as well as for interdisciplinary study.

Nashville Committee for Scientific Information  
Department of Chemistry  
Vanderbilt University  
Nashville, Tennessee 37203

One of SIPI's affiliated science information committees.

Dr. John Czirr, Director  
Center for Teachers  
Austin Peay State University  
Clarksville, Tennessee 37040  
(615) 648-6116

This is a preservice teacher training program for high school teachers leading to a degree in environmental science. Background courses range from the social and political sciences to physics and biology courses. Mr. Mayfield said his program emphasized learning problem solving techniques which could be used to cover a broad range of issues.

Mr. Lloyd Foster, Director  
Tremont Environmental Education Center  
Maryville College  
Townsend, Tennessee 37882  
(615) 448-2211

Maryville College runs an environmental education center. Two college professors conduct weekend workshops for secondary school teachers who then take over the teaching duties for their own students while they attend the center. The focus of the program is on getting the teachers aware of human ecology so they can involve the students.

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Dr. Karl B. Schelle  
Vanderbilt Engineering School  
Vanderbilt University  
Nashville, Tennessee 37235

American Institute of Architects  
President of Nashville Chapter: Flem Smith

Environmental Action Council of Memphis  
P. O. Box 4672  
Memphis, Tennessee 38104  
President: Howard Vogel  
(901) 527-6641 Ext 577

Tennessee Children's Museums  
Nashville and Chattanooga

Sierra Club  
George Hernal  
Nashville Chapter  
Nashville, Tennessee

Tennessee Citizens for Wilderness Planning  
President, William Russel  
Oak Ridge National Laboratory  
Liane Russell: Editor of Newsletter

Tennessee Ornithological Society  
Ben Coffey, Jr.

Tennessee Environmental Council  
Botanic Hall  
Tennessee Botanical Gardens and Fine Arts Center  
Cheek Road  
Nashville, Tennessee 37205  
Executive Director: Ruth Neff  
(615) 356-3306

Some of the current projects include preservation of Savage Gulf and other endangered wilderness areas; preservation of Tennessee's scenic rivers; strengthening of the Tennessee Air Pollution Control law;

passage of an effective strip mining control law, and reclamation of abandoned mines; promotion of voluntary collections of paper, glass, and aluminum for recycling; evaluation of proposed TVA and Corps of Engineers projects in Tennessee.

Environmental Experiments Program  
P. O. Box 117  
Oak Ridge, Tennessee 37830  
Courtland Randall, Director  
(615) 483-8411 Ext 205

Dr. George Walter  
Department of Public Health  
621 Cordell Hull Building  
Nashville, Tennessee 37219

State water pollution control program.

Mr. Peter Cohan, Executive Director  
Cooperative Science Education Center, Inc.  
156 Adams Lane  
Oak Ridge, Tennessee 37830

The major role of this center in its subcontract with the Oak Ridge National Laboratory is to develop communication and educational programs that could serve as models for regional or national environmental awareness activities.

The Center has designed and developed two specific action programs which incorporate a number of components directed at informing a large target population about technological assessment and its role in solving environmental problems. Simultaneously they provide insight on the part of scientists and technologists at ORNL concerning the degree of awareness of technological impact on environmental problems as expressed by the target population.

The two major program areas are known as (1) Environmental Information Services, and (2) Environmental Awareness Workshops and Conferences. A monthly publication is provided to a large sample of the target population known as "Environmental Capsules." It provides simple, nontechnical coverage of local, state, and national activities related to the environment and technological assessment.

Specific information packages are being/have been developed. These packages are directed at instructional personnel, grades 1-12. Additional aspects of Information Services provide seminar programs for service clubs and related organizations with the specific intent of presenting an array of environmental problems, and documenting the questions, responses, and commentary of the participants in these

seminar programs. Regional and state awareness conferences are being organized to provide a series of statewide conferences directed at teachers and their supervisors.

The simulation problem developed by the Center is known as "Enviro County." It involves simulation of a regional planning commission, attempting to resolve a variety of problems concerning the economic, social, and environmental status of this imaginary county. The county depicts, in a three-dimensional way, a rural, suburban, urban interface, with all its attendant problems. A kit was developed providing an opportunity for interested teachers and secondary school pupils to develop their own regional simulation problem reflecting the locale in which they live and study.

Regional Awareness Conferences are designed to provide a series of informational programs for various members of the target population.

One of the major environmental awareness programs for teachers and pupils is known as the Statewide Air Quality Monitoring Program, involving a number of secondary teachers and their pupils from every county in Tennessee. The Center is cooperating with, and is being provided assistance by, the Atmospheric Sciences Research Center at Albany, New York.

#### **Smoky Mountains Hiking Club**

Leroy G. Fox, President  
P. O. Box 1454  
Knoxville, Tennessee 37901

The Club develops opportunities for the enjoyment of the outdoors such as hikes and outings and provides related social and educational opportunities. It encourages and teaches outdoor ethics as well as conservation of woods, waters and wildlife. It serves to acquaint the public with the beauty and grandeur of the Great Smokies and other area mountains in Tennessee.

Department of Conservation  
James Bailey, Educational Director  
2611 West End Avenue  
Nashville, Tennessee  
(615) 741-2661

Cooperative Science Education Center, Inc.  
Center for In-Service Education  
156 Adams Lane  
Oak Ridge, Tennessee 37830  
483-4391 or WATS line 1-800-362-9605 (no toll charge to State residents)  
Executive Director: Peter Cohan  
Program services: Kenneth E. Flatt  
Informational assistance: Donna Jacobs

Member council of AAAS Commission in Science Education. The center is conducting project WASTE (Waste Assessment and Student Training Experiment.) It is part of The Environmental and Technology Assessment Program being carried out at the Oak Ridge National Laboratory.

They publish The Center Bulletin. Clifford G. Smith is editor.

Let's Keep Living Council  
P. O. Box 5085 EKS  
Johnson City, Tennessee 37601

Bays Mountain Park  
Jack Gross  
Route #4  
Kingsport, Tennessee 37660  
(615) 245-4192

Mr. Peter Cohan  
Cooperative Science Education Center  
156 Adams Lane  
Oak Ridge, Tennessee 37830  
(615) 483-4391

The CSEC is intended to be an information link between the general public and scientists and technologists and to provide environmental education and training for people in education programs. A simulation session called "Enviro County" involves various political, industrial, and educational people. The participants, a large model of Enviro County, assume these roles as different members of the planning commission. The purpose of the session is to show the participants the pressures put upon decision makers and to give them an understanding of the decision-making process. At the end of the session the group is given a score which indicates the effects of their decisions on the environment.

Another project conducted by CSEC was the Volunteer Air Monitoring Program (VAMP). Approximately 25,000 students throughout the state used inexpensive air monitoring devices provided by local industries and put together by volunteer workers. The students recorded data on weather conditions which were collected after one month. The CSEC publishes a monthly newsletter called "Environmental Capsule" which keeps its members informed of important issues. Funds are from the National Science Foundation.

David Sundberg  
Director of Public Information  
Oak Ridge National Laboratory  
Box X  
Oak Ridge, Tennessee 37838  
(615) 483-8611

ORNL receives 80% of its funds from the AEC to carry out numerous scientific research activities. Most of its education projects are contracted to CSEC.

John Rice Irwin  
Executive Director  
Tennessee Appalachian Educational Cooperative  
104 Kentucky Avenue  
Oak Ridge, Tennessee 37830  
(615) 482-3481

TAEC is a non-profit organization, founded in 1969, which provides educational opportunities for a seven school system. It has been interested in environmental education, and although its proposal calling for money to help develop a community education model was not funded, the organization is working on alternative ways to stay involved with environmental education.

Environmental Action Council of Oak Ridge  
Robin Wallace  
105 Monticello Toad  
Oak Ridge, Tennessee  
(615) 483-8611, Ext 35712

EACOR works at the community level to establish action programs such as setting up a recycling center and to provide speakers for local groups. It has an excellent newsletter, Environment 2000, which is concerned with affecting changes to improve the total environment.

Environmental Action Council of Memphis  
c/o P. O. Box 4672  
Crosstown Post Office  
Memphis, Tennessee  
Dr. Howard Vogel  
(901) 527-6641

Dr. Vogel is the chairman of a very active group which is aimed at making the public aware of environmental issues. The group organized a meeting of the five Memphis mayorial candidates for the 1971 elections to discuss environmental issues. Another project started a recycling center in Memphis. Dr. Vogel was encouraged that public interest was being generated toward coping with environmental problems.

RESOURCE MATERIALS AVAILABLE:Motive

Mr. Robert Maurer, Editor  
 P. O. Box 871  
 Nashville, Tennessee 37202  
 (615) 291-6930

This is a monthly magazine which exhibits special interest in publishing informative, stimulating articles on ecology within a general framework of articles, art, and poetry which illuminate the contemporary scene.

"What is the E.Q. of Your School?"

(Environmental Quality Manual)

Science Department  
 Nashville-Metro-Outdoor Education Department

Lib Roller, Consultant  
 2601 Bransford Ave.  
 Nashville, Tennessee 37213

"This mini-manual has been designed for the elementary school classrooms. The experiments can be done with little or no equipment. All areas of the curriculum can be involved in this attempt to help you and the children understand and evaluate the surrounding environment."

Contents: Air and water pollution activities, litter - survey and evaluation, land use, special problems (rat control, odors from factories, vacant houses, hazards) and related activities. About 50 pages.

POSSIBLE RESOURCE PEOPLE:

Judy Brown  
 Tennessee Society of Architecture  
 1808 W. End Buiding #401  
 Nashville Tennessee 37203

David Goodrich, Director  
 Tennessee Fish and Game Commission  
 Ellington Agricultural Center  
 Nashville, Tennessee 37220

Mr. James E. Ogul  
EEP Coordinator  
Oak Ridge Associated Universities  
P. O. Box 117  
Oak Ridge, Tennessee 37830

Contact for Oak Ridge projects.

William S. Shell, AIA  
The School of Architecture  
University of Tennessee  
Knoxville, Tennessee 37916

Wesley Eckenfelder  
Department of Environment and Water Resources Engineering  
Vanderbilt University

Louise Pierce  
Howard School  
700 2nd Avenue South  
Nashville, Tennessee 37210

Representative Victor Ashe  
3709 Kingston Pike  
Knoxville, Tennessee 37919  
(615) 525-0338 or  
(615) 584-7103

Member of National Advisory Council on E.E. Legislator who has sponsored conservation legislation, strengthening pollution control laws, and reforming election laws.

Roslyn Glasser  
Conservation Education Specialist  
Forestry, Fisheries and Wildlife Development  
TVA  
Norris, Tennessee 37828  
(615) 637-0101 or  
(615) 637-2296

Jonathan M. Wert  
Educational Relations Officer  
Division of Personnel  
Tennessee Valley Authority  
300-FH  
Knoxville, Tennessee 37902

Peter Cohan, Executive Director  
Cooperative Science Education Center, Inc.  
156 Adams Lane  
Oak Ridge, Tennessee 37830  
(615) 483-4391

Lloyd Foster, Director  
Tremont Park  
Maryville College  
Environmental Education Center  
Townsend, Tennessee 37882

Dr. John Czirr  
Center for Teachers  
Austin Peay State University  
Clarksville, Tennessee 37040  
(615) 648-6116

Mr. James Kemp, Director  
Tullahoma Outdoor Laboratory  
Tullahoma City Schools  
Tullahoma, Tennessee 37388  
(615) 455-5421

Mr. Fred Johnson  
Science Supervisor  
Shelby County Schools  
160 South Hollywood  
Memphis, Tennessee 38112

Miss Elizabeth Roller  
Outdoor Education Supervisor  
Metropolitan Nashville Public Schools  
2601 Bransford Avenue  
Nashville, Tennessee 37204  
(615) 747-5158

Mr. Jonathan Wert  
Environmental Education Specialist  
Tennessee Valley Authority  
300-FH  
Knoxville, Tennessee 37902  
(615) 637-0101

Mr. Anthony Campbell  
Executive Director  
Tennessee Conservation League  
2010 Church Street, Room 221  
Nashville, Tennessee 37203

Dr. Ted James  
Professor of Biology  
University of Tennessee at Martin  
Martin, Tennessee  
(901) 587-7111

Mr. James Bailey  
Educational Director  
Department of Conservation  
2611 West End Avenue  
Nashville, Tennessee 37203

Mr. A. Randalls  
Supervisor of Science  
Metro Nashville Public Schools  
2601 Bransford Avenue  
Nashville, Tennessee 37204

Mr. W. B. Randolph  
Supervisor of Science  
Hamilton County Public Schools  
317 Oak Street  
Chattanooga, Tennessee 37403

Mr. William T. Conn  
Science Supervisor  
Memphis City Schools  
2225 James Road  
Memphis, Tennessee 38126

Mr. Bob Chambers  
Supervisor of Science  
Knox County Schools  
Knoxville, Tennessee 37917

Dr. Bernard Benson  
College of Education  
University of Chattanooga  
Chattanooga, Tennessee

Dr. Dean Stout  
Science Supervisor  
Knoxville City Schools  
Knoxville, Tennessee 37917

Mr. E. E. Pitt  
Curriculum Specialist  
3100 Rossville Boulevard  
Chattanooga, Tennessee 37407

Mr. Roger Duncan  
Campbell County Schools  
Jacksboro, Tennessee 37757

Dr. Ruth Neff, Executive Secretary  
Tennessee Environmental Council  
Tennessee Botanical Gardens  
Cheek Road  
Nashville, Tennessee 37205

Mrs. Barbara E. House  
Executive Director  
Upper East Tennessee Educational Cooperative  
Room 208 - Science Hill High School  
Johnson City, Tennessee 37601

Dr. Jerry Ayers  
College of Education  
Tennessee Technological University  
Cookeville, Tennessee 38501

Dr. Karl B. Schnelle  
Vanderbilt Engineering School  
Vanderbilt University  
Nashville, Tennessee 37235

Mr. Ronald Childress  
Environmental Education Coordinator  
Kingsport City Schools  
1701 East Center Street  
Kingsport, Tennessee 37664

Dr. Gene Gonsoulin, Head  
Biology and Conservation  
Volunteer State Community College  
Gallatin, Tennessee 37066

Mr. William S. Busse  
Executive Director  
Tennessee Tuberculosis and RD Association  
1717 West End Avenue  
Nashville, Tennessee 37203

## VIRGIN ISLANDS

UNIVERSITY AND COLLEGE ACTIVITIES

Norwell Harrigan, Acting Director  
Caribbean Research Institute  
College of the Virgin Islands  
Box 1826  
St. Thomas, Virgin Islands 00801

GROUP AND AGENCIES

Department of Health  
P.O. Box 1442  
St. Thomas, Virgin Islands 00801

Virgin Islands Conservation Society, Inc.  
c/o Caribbean Research Institute  
College of the Virgin Islands  
St. Thomas, Virgin Islands 00801

(A nonprofit organization, affiliated with the National Wildlife Federation. Aims to encourage greater awareness of the value of natural resources, to coordinate conservation activities of concerned organizations, and promote legislation fostering conservation.)

Island Resources Foundation  
Box 4187  
St. Thomas, Virgin Islands 00801  
Dr. Edward L. Towle, President

League of Women Voters of the Virgin Islands  
Box 4250  
St. Thomas, Virgin Islands 00801  
Environmental Quality Committee

Very active volunteer political organization on all governmental issues. Has history of successful action/public education in E.Q. Serves all three islands.

## WISCONSIN

STATE E.E. CONTACT:

Mr. David Engleson, Specialist  
 Environmental Education  
 State Department of Public Instruction  
 Madison, Wisconsin 53702  
 (608) 266-3390

Mr. David Walker  
 Executive Secretary, Wisconsin Environmental Education Council  
 610 Langdon Street  
 University of Wisconsin  
 Madison, Wisconsin 53706

STATE PLAN ACTIVITIES:

A plan is being developed, currently at the point of first drafting, including twelve sectors (i.e. agribusiness, elementary education, higher education, implementation strategy also considered); public hearings Spring 1973 for the first draft. This is the plan which was drawn up Winter 1973. It must be approved by both the governor's advisory council and the governor himself. The plan should deal with making new priorities and assigning the proper groups, agencies, programs or individuals who could act on these new priorities.

E.E. PROGRAMS FUNDED FOR 1972:

William C. Kahl, Chairman  
 Wisconsin E.E. Council  
 c/o David Walker  
 610 Langdon Street  
 University of Wisconsin Extension  
 Madison, Wisconsin 53706

Statewide evaluation and dissemination plan.

Robert Sorensen  
 Board of Vocational, Technical, and Adult Education, District #10  
 Moraine Park Technical Institute  
 VTEA 235 N. National Avenue  
 Fond-du-Lac, Wisconsin 54935

Vocational, Technical and Adult teachers training.

Rev Melvin Tracy  
 John F. Kennedy Prep. School  
 Box 109  
 St. Nazianz, Wisconsin 54323

Training of inservice high school teachers together with their students in an interdisciplinary approach to environmental education.

Dr. Richard Presnell  
University of Wisconsin at Green Bay  
Green Bay, Wisconsin 54302

The development of media materials for community environmental education.

Arthur H. Cothran  
Wisconsin Vocational, Technical and Adult Education District #18  
1019 S. Knowles Avenue  
New Richmond, Wisconsin 54017

Development of a process curriculum for public employees engaged in water and sewage treatment plant operations.

SCHOOL PROGRAMS AND ACTIVITIES:

**Franklin Schools' Forest Park E.E. Center**

Developed for activity-centered, doing and solving education for students in K-12. Franklin Public Schools has developed a curriculum guide that can be used in conjunction with the center. Location: Forest Park Middle School, 8225 W. Forest Hill Avenue, Franklin, Wisconsin 53132. (414) 425-8700. Facility includes one-half mile of marked nature trails, four outdoor classrooms, demonstration plots, pond, marsh area, wetlands meadow, small pioneer forest area, hedgerows, wild pasture, wildlife viewing blinds. A current set of guidelines for scheduling class visits can be requested from: Mr. Karl Wegerbauer, Principal, Forest Park Middle School.

Miss Nancy Noeske, E.E. Coordinator  
Milwaukee Public Schools  
P. O. Box Drawer 10K  
Milwaukee, Wisconsin 53201

"Master Plan for E.E. in the Milwaukee Public Schools"  
Richard Gousha, Director

Received \$237,250 FY 1971 Title III Funds Allocated to E.E. A master plan for E.E. in the school system will be implemented. The program will include the following components: teacher leadership conference, television inservice workshop, curriculum development workshop, open-end grant program, field trip pilot program, instrumentation program, . . .

exceptional education/handicapped program and demonstration farm development program. Teachers selected for the leadership conference will coordinate various environmental education activities in their respective schools. Under the open-end grant program, students will be able to obtain money and assistance for innovative environmental education projects. The instrumentation program will consist of an open-ended school action program with funds available to the schools which suggest the most innovative ways of attacking specific environmental problems. Under the demonstration farm development program, students will work on a State-owned farm and study farm activities.

**Madison Public Schools**  
Marvin Meissen  
Department of Curriculum Development  
545 W. Dayton Street  
Madison, Wisconsin 53703

Alfred Block  
Franklin Public Schools  
Franklin, Wisconsin 53131

Alan Christel  
Cameron Public Schools  
Cameron, Wisconsin 54822

Hugh Curtis  
Wausau Public Schools  
407 Grant Street  
Wausau, Wisconsin 54901

**Reedsburg Public Schools**  
Roger Popple  
Reedsburg Sr. High School  
Reedsburg, Wisconsin 54559

Richard Bliss  
Environmental Science Center  
Racine Public Schools  
Racine, Wisconsin

## ENVIRONMENTAL EDUCATION ORIENTED PROGRAMS IN WISCONSIN

Senior High School Programs

Abbotsford	McFarland
Alma Center	Merrill
Antigo	Middleton
Athens	Milltown Unity
Barron	Milwaukee (University School)
Beaver Dam (Wayland Academy)	Minocqua (Lakeland Union)
Birchwood	Monroe
Black River Falls	Neenah
Bloomer	New London
Bonduel	Oak Creek
Bloomington	Oconomowoc
Brussels (Southern Door)	Orfordville
Chetek	Plainfield (Tri-County)
Clayton	Portage
Cochrane-Fountain City	Princeton
Cornell	Racine Park
Crandon	River Falls
Eau Claire Memorial	Saint Nazianz (JFK Prep)
Edgar	Seymour
Fort Atkinson	Shawano
Gale-Ettrick-Trempeleau	Sheboygan Falls
Germantown	Stevens Point (Pacelli)
Green Lake	Sun Prairie
Hammond	Superior
Hartland (Arrowhead)	Suring
Hillsboro	Verona
Horicon	Viola (Kickapoo Area)
Hortonville	Viroqua
Independence	Wausau (Newman)
Ithaca	West Bend
Johnson Creek	Weyauwega
Ladysmith	Whitefish Bay
Madison East	Wisconsin Rapids
Madison Memorial	Wrightstown
Marshfield	

Junior High School Programs

Arcadia	Milltown (Unity)
Clayton	Muskego
Clinton	New Glarus
Franklin (Forest Park Middle)	Superior
Hortonville	Verona
Kettle Moraine (Dousman)	Weyerhauser
Kewaunee	Wisconsin Rapids

Elementary School Programs

Denmark	Walworth Jt. Dist. #1
Milltown (Unity)	North Walworth Jt. #5

LaCrosse Public Schools Environmental Education Project

Contact: Dr. Leah Senff  
 Biology Department  
 Viterbo College  
 LaCrosse, Wisconsin

Mackenzie Environmental Education Center  
 Poynette, Wisconsin

**Project ICE**

Director, Robert Warpinski  
 CESA 9  
 1927 Main Street  
 Green Bay, Wisconsin 54302

UNIVERSITY AND COLLEGE PROGRAMS AND ACTIVITIES:

Professor Clay Schoenfeld, Chairman  
 University of Wisconsin  
 602 State Street  
 Madison, Wisconsin 53706  
 (608) 262-2116

CECES is an inter-college consortium of faculty members and students of ecology, education, and journalism. It serves to focus and facilitate the work of the University in areas of environmental communication and education through instruction, research, and extension.

Dean  
 University of Wisconsin - Green Bay  
 Green Bay, Wisconsin 54302

Complete undergraduate program. Overall orientation and course on ecology and man's relation to nature and environment. Four colleges based on environmental themes. Three types of choices in regard to major - Environmental Problem, or Discipline, or field of knowledge, option, or collateral, professional minors or preprofessional program.

**Institute for Environmental Studies**

Professor Reid A. Bryson, Director  
 University of Wisconsin  
 Meteorology and Space Science Building  
 Madison, Wisconsin 53706  
 (608) 262-2860

The Institute was created in order to develop, coordinate, and encourage graduate research and training in environmental studies; to develop undergraduate curricula in environmental studies. IES is an interdisciplinary, inter-divisional campus-wide program of research and teaching with extension into all aspects of the man-environment system.

Dr. Daniel Trainer  
Dean, College of Natural Resources  
University of Wisconsin - Stevens Point  
Stevens Point Wisconsin

Naturalist Training Program  
Biology Department  
University of Wisconsin - Extension  
Madison, Wisconsin 53706

Wisconsin E.E. Inservice Program  
David C. Engleson, Specialist  
Environmental Education  
Department of Public Instruction  
1262 Langdon St  
Madison, Wisconsin 55702

GROUPS AND AGENCIES WITH INTEREST IN E.E.:

Scientific Areas Preservation Council  
Dr. Henry Kolka, Chairman  
Geography Department  
University of Wisconsin - Eau Claire  
Eau Claire, Wisconsin

Environment Wisconsin  
114 N. Carroll  
Madison, Wisconsin 53703

M. N. Taylor, Executive Director  
Environmental Center  
Eagle River, Wisconsin

Environmental Education Council of Greater Milwaukee  
Forest Stearns, President  
Botany Department  
University of Wisconsin - Milwaukee  
Milwaukee, Wisconsin 53211

Schlitz-Audubon Nature Center  
 Don Danielson, Director  
 Milwaukee, Wisconsin

Department of Natural Resources  
 P. O. Box 450  
 Madison, Wisconsin 53701

Responsibilities include fish, game, forest, and parks management, forest fire control, control of air and water pollution, solid waste disposal, flood plain and shoreland zoning, water management and regulation, and long-range planning in the broad fields of outdoor recreation and natural resources.

Waukesha Cty Environmental Council  
 Mrs. Jerry Wuerslin, President  
 411 McCall Street  
 Waukesha, Wisconsin 53186

Wisconsin Environmental Decade  
 John Neess, Director  
 Box 1105  
 Madison, Wisconsin 53703

#### Wisconsin Council for Conservation Education

A non-profit organization concerned with E.E., particularly at the elementary and secondary school level. It publishes a quarterly 12 page WCCE Newsletter which describes many printed materials and audio-visual aids useful in school programs plus much other useful information. Write to Marion Sutherland, WCCE Treasurer, 2615 Arboretum Lane, Madison, Wisconsin 53713 for membership-subscription information.

Wisconsin Environmental Education Council  
 David Walker, Executive Secretary  
 521 Lowell Hall  
 University of Wisconsin  
 Madison Wisconsin 53706

The Council is charged "to develop a state plan for E.E., to provide technical assistance to state and local agencies and citizen groups in the development of E.E. programs, to assist in the broad coordination of E.E. activities in Wisconsin, to expend and distribute funds allocated to the Council, to implement other E.E. activities required by Wisconsin Statutes and to recommend such changes in the Wisconsin Statutes with respect to E.E. as the public interest may require."

American Society of Agronomy, Inc.  
Matthias Stelly, Executive Secretary  
677 South Segoe Road  
Madison, Wisconsin 53711  
(608) 238-4222

The Society is a non-profit educational and scientific corporation which strives to promote human welfare through advancing the acquisition and dissemination of scientific knowledge regarding the use, improvement, and interrelationships of plants, soils, and environments.

UMW Cedarburg Bog Field Station  
Mrs. Millicent Ficken, Director  
Rt. 1, Box 216  
Saukville, Wisconsin 53080  
(414) 675-6844

Zero Population Growth  
Wisconsin State University  
Stevens Point Chapter  
Stevens Point, Wisconsin 54481

Political Interest Groups  
Mrs. Lois Zahorik  
4515 N. Woodburn Street  
Milwaukee, Wisconsin 53211  
(414) 964-8665

Earth Action  
Mark Leitner  
4141 N. 64 Street  
Milwaukee, Wisconsin 53218

Conservation Education, Inc.  
Court House  
Manitowoc, Wisconsin

**Citizens Natural Resources Association of Wisconsin, Incorporated**  
 Mrs. Harold G. Kruse, Secretary  
 Hickory Hill Farm  
 Loganville, Wisconsin 53943  
 (608) 727-2289

also: Donald Kindschi, M.D.  
 Prairie du Sac, Wisconsin 53578

The Association is convinced that man is part of nature and that the community and state of Wisconsin must retain and create as many natural elements as possible in order to be a healthy, sound, beautiful, and prosperous place. It seeks to involve citizens in most serious thought, effort and action to prevent unnecessary despoliation of its environment. It is particularly concerned with pesticides, water and air pollution, roadside management, nuclear reactions, forestry, Indians, natural areas, wild rivers, wilderness, land use, and open space preservation.

Audubon Camp of Wisconsin  
 National Audobon Society  
 1130 5th Avenue  
 New York, New York 10028

Greater Oconomowoc Antipollution League (GOAL)  
 Bob Sorenson, Chairman  
 37120 Juneau Avenue  
 Oconomowoc, Wisconsin 53066

Riveredge Nature Center, Inc.  
 4311 W. Hawthorne Drive  
 Newbury, Wisconsin 53060

"The Center uses an investigative, problem solving approach . . . school groups are directed by the Center's staff of full time professional naturalists. Although programs are prepared primarily for grades 4-6 and provide sequential experiences, students of other elementary and high school levels are accomodated. Also, the Center cooperates with schools and teachers in preparation of special programs. Programs offered include: "Life in the River," "The Field, Thicket and Forest," "Soil: The Foundation of Life," "The Honey Bee," "Mapping and Measurements," and others.

**Ecology Action of River Falls**  
 c/o James Lenfestey  
 409 S. Winter  
 River Falls, Wisconsin 54022

Soil Science Society of America, Inc.  
 Matthais Stelly, Executive Secretary  
 677 South Segoe Road  
 Madison, Wisconsin 53711  
 (608) 238-4222

The objectives of the SSSA are to promote basic and applied research in soils and to foster high standards in the education of future soil scientists and in the teaching of soil science. The Society makes information available to the public on advancements in soil sciences and techniques for improved farming.

Racine Coalition for Clean Air  
 Hank Cole  
 2010 Charles Street  
 Racine, Wisconsin  
 (414) 634-2976

RESOURCE MATERIALS AVAILABLE:

Directory of Environmental Organizations in Wisconsin, 1972

Published by: Environment Wisconsin  
 114 N. Carroll Street  
 Madison, Wisconsin 53703

Contains names addresses, membership, publications, and interests of groups. \$1.00.

Environmental Resources Unit  
 University of Wisconsin  
 215 N. Brooks Street  
 Madison, Wisconsin 53706

Has films, etc.

Environmental Education News for Wisconsin Schools (a newsletter)

David Engleson, Editor  
 Specialist, Environmental Education  
 Department of Public Instruction  
 126 Langdon Street  
 Madison, Wisconsin 53702

It is mailed to Environmental Education contact persons in each school building in a form that can be easily xeroxed. It is to serve "as a means of communications between the Department and teachers, administrators and staff members on matters dealing with E.E. . . . it includes information regarding those things which classroom teachers frequently ask about."

Dembar Educational Research Services  
Environmental Education  
 Clay Schoenfield, Editor  
 P. O. Box 1605  
 Madison, Wisconsin 53701  
 (608) 244-2778

Dembar Educational Research Services publishes Environmental Education, a national journal which features articles on research and development in conservation communications and education efforts.

Wisconsin Council for Conservation Education Newsletter

Robert Kellner, Editor  
 CESA 9  
 1927 Main Street  
 Green Bay, Wisconsin

A quarterly 12 page newsletter which describes many printed materials and audiovisual aids useful in school programs plus much other useful information. Write for membership-subscription information.

Spanish Ecology Packet

Pollution: Problems, Projects, and Exercises (Math, 6-9)

German Ecology Packet

French Ecology Packet

Ecology and Human Values

Publications - Sales  
 Department of Public Instruction  
 126 Langdon St.  
 Madison, Wisconsin 53702

POSSIBLE RESOURCE PEOPLE:

Dr. Edward Weidner  
 Chancellor  
 University of Wisconsin - Green Bay  
 900 South East Entrance Road  
 Green Bay, Wisconsin 54302  
 (414) 465-2207

Member of the National Advisory Council on E.E. Educator involved in E.E. He has presented more than a dozen papers on the subject and gave testimony before the select subcommittee on Education and Labor, House of Representatives, on Environmental Quality Education Act of 1970 and has served on numerous councils and associations concerned with political science and especially public administration. He attended the April 1971 meeting of the National Association for E.E.

Dr. Clarence Schoenfield  
Chairman, Center for Environmental Communications and Education Studies  
University of Wisconsin  
602 State Street  
Madison, Wisconsin 53706

He worked out the basic blueprint for the Nelson bill last year, and consulted regarding OE's role set forth in the bill. He has an excellent graduate and undergraduate program for E.E. including information and communication aspects. He is the Editor of the new Journal of Environmental Education.

Robert O. Ellingson  
Chief, Education Section  
Department of Natural Resources  
Box 450  
Madison, Wisconsin 53701

William Wood  
Chairman, NEA Task Force on E.E.  
Milwaukee, Wisconsin

He is a 9th grade geography teacher.

Milton O. Pella  
Chairman of Science Education  
University of Wisconsin - Madison  
Madison, Wisconsin 53706

John Steinhardt, Institute for Environmental Studies  
University of Wisconsin  
Madison, Wisconsin

Craig Nauman  
Thomas Jefferson Middle School  
101 S. Gammon Road  
Madison, Wisconsin 53711

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Pittsville High School  
Pittsville, Wisconsin 54466

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545 W. Dayton Street  
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Director  
Board of Vocational, Technical, and Adult Education  
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Madison, Wisconsin 53703

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University of Wisconsin - Green Bay  
Green Bay, Wisconsin 54305

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Department of Public Instruction  
126 Langdon Street  
Madison, Wisconsin 53702

George Conom  
"Ecology and Human Values"  
Sun Prairie Sr. High School  
Sun Prairie, Wisconsin 53590

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Art Specialist  
Department of Public Instruction  
Madison, Wisconsin 53702

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Associate Professor of Environmental Control  
Director of Community Outreach  
University of Wisconsin at Green Bay  
Green Bay, Wisconsin  
(414) 465-2427

Ruth Ann Baumann  
Man and His Environment  
Washington Park High School  
Racine, Wisconsin 53403.

Harold Haag, Director  
Outdoor Education  
Janesville Public Schools  
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Janesville, Wisconsin 53545

H. Michael Hartoonian  
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Department of Public Instruction  
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Biology Department  
Lawrence University  
Appleton, Wisconsin

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Environmental Education coordinator  
Milwaukee Public Schools  
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Milwaukee, Wisconsin 53201  
(414) 476-3670

Al Block  
Franklin School District  
Franklin, Wisconsin  
(414) 425-2554

John Ross  
Associate Director  
Institute for Environmental Studies  
University of Wisconsin - Madison  
1225 W. Dayton Street  
Madison, Wisconsin 53706

Professor Denton Morrison  
Department of Rural Sociology  
College of Agricultural and Life Sciences  
University of Wisconsin  
240 Agricultural Hall  
Madison, Wisconsin 53706  
(608) 262-1515

Michael McClintock  
Senior Scientist  
Space Science and Engineering Center  
University of Wisconsin - Madison  
Madison, Wisconsin 53706

Helped prepare SIPI workbook of Environmental Effects of Weapons Technology.

Dr. James Bennett  
Environmental Specialist  
Joseph Schlitz Brewing Company  
Milwaukee, Wisconsin

Janet De Groot, Student  
University of Wisconsin at Green Bay  
Green Bay, Wisconsin

Roy Durst, Coordinator  
Cooperative Educational Service  
Agency 12  
Portage, Wisconsin

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Chief of Education  
Department of Natural Resources  
Madison, Wisconsin

John Givens, Associate Director  
Model Cities Agency  
Milwaukee, Wisconsin

Vernon J. Knight  
Director of Natural Resources  
Kimberly Clark Corporation  
Neenah, Wisconsin

Julian Modjeski, Representative  
Communications Workers of America  
Wast Allis, Wisconsin

Norman Michie  
Education Communications Board  
Madison, Wisconsin

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University of Wisconsin Extension  
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Rhinelander, Wisconsin

Robert Matteson, Director  
Sigurd Olson Institute for Environmental Studies  
Northland College  
Appleton, Wisconsin 54806

Dr. Rudy Koch  
CASE  
University of Wisconsin - Superior  
Superior, Wisconsin

Reverend Mark J. Schommer  
Superintendent of Education  
Catholic Diocese  
Green Bay, Wisconsin

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Health Department  
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Milwaukee, Wisconsin