

ILLINOIS—INDIANA SEA GRANT

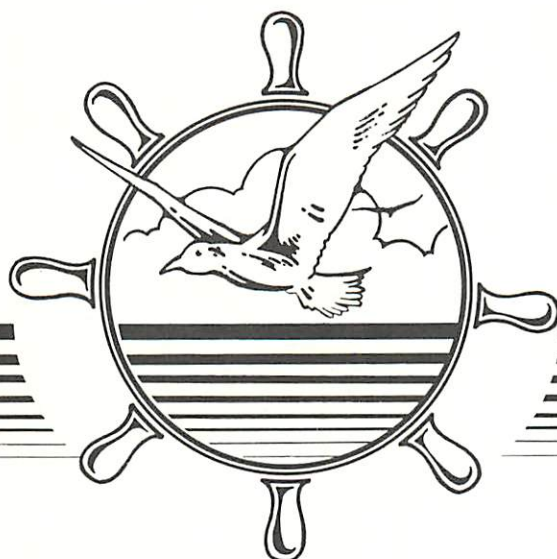
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**A Report on the
Illinois-Indiana
Sea Grant Program**

**April 1, 1982-
March 31, 1984**

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Issued in furtherance of Cooperative Extension Work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. **William R. Oswald**, *Director*, Cooperative Extension Service, University of Illinois at Urbana-Champaign.

The Illinois Cooperative Extension Service provides equal opportunities in programs and employment.

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Illinois-Indiana Sea Grant Program

A Message from the Program's Coordinators

This report covers the activities and accomplishments of the Illinois-Indiana Sea Grant Marine Extension Project during its first two years. It also describes how it ties in with the National Sea Grant College Program. Our bi-state program is in its infancy as the most recent program to be initiated in the country. The accomplishments of the program have been modest, in line with the small staff and limited funding involved.

The synergistics of the Great Lakes Sea Grant Network have been very evident to our program in Illinois and Indiana. With this in mind, our efforts have been directed at serving the identified clientele — individuals, enterprises and agencies who have indicated a need for and a desire to participate in marine Extension workshops and seminars or who have requested technical information on an individual basis. More efficient and effective operations have resulted from matching up the identified needs with the resources available through the broad base of Sea Grant.

Many of the identified problems of resource users can best be answered through university-based research directed at obtaining answers to these problems. It is the intent of our program to move into the research area as the next program element. Several areas of research interest have been identified for this eventuality. As projects grow and build on one another through the years, so shall our program build to better serve the Lake Michigan region of Illinois and Indiana and to increase the value of Sea Grant to the states and to the nation.

Robert D. Espeseth, Coordinator
James A. Peterson, Co-Coordinator

The Illinois-Indiana Sea Grant Program

Introduction

Between 8 and 9 million people living in Illinois and Indiana live within an hour's drive of the shores of Lake Michigan. The tremendous impact of this midwest megalopolis on the 105 miles of this Lake's shoreline is staggering.

The Illinois-Indiana Sea Grant Program focuses on helping people get the most out of this precious marine resource. It points out the Lake's resources and potential to businesses and private individuals in both Illinois and Indiana and provides the two states with an opportunity for future understanding of the Great Lakes.

Initiated in April 1982, this Program is the most recent to be approved and funded by the National Sea Grant College Program. The University of Illinois at Urbana-Champaign and Purdue University are the initiating institutions.

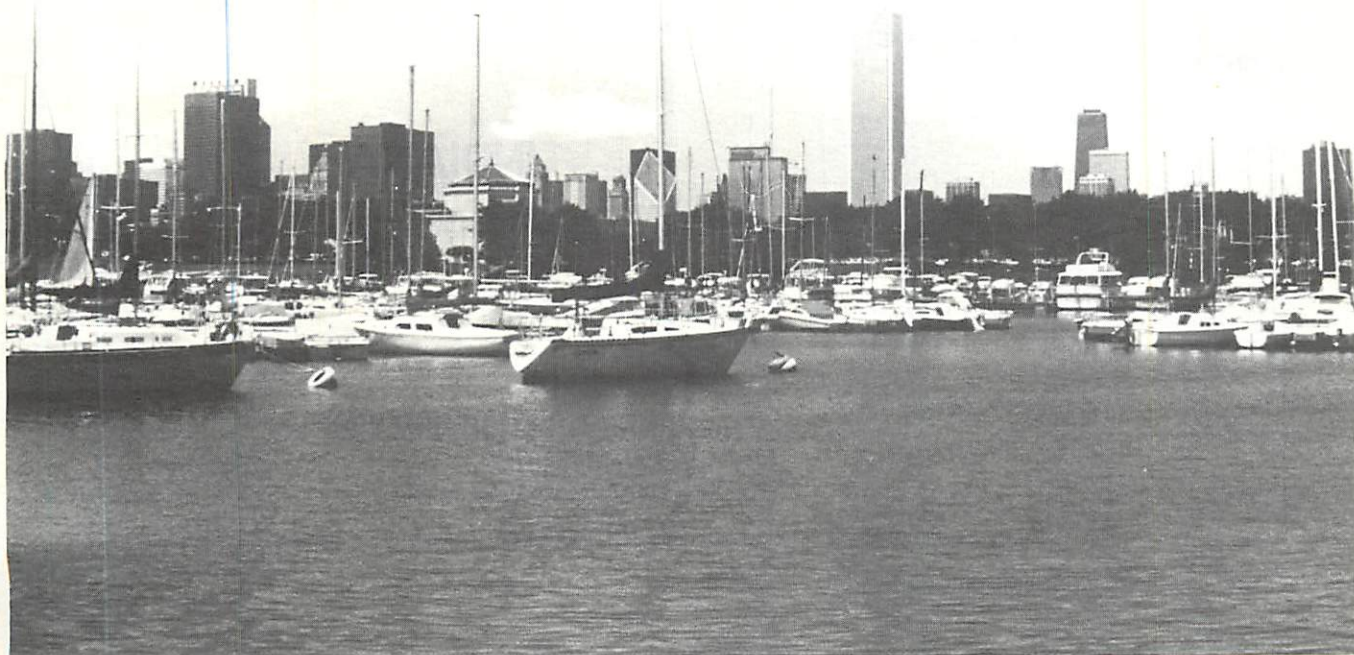
The Program consists of an Extension and a communications component to help meet the needs of its

constituents. A formal research and education component may be added as the Program develops.

Through the Illinois-Indiana Sea Grant Program, those who study Great Lakes marine resources are linked to those who use the Lakes' resources — industry, government and the general public. To reach a broad spectrum of users, information is transferred through meetings, conferences, publications, media projects and personal contacts by marine Extension personnel.

The Illinois-Indiana Sea Grant Program is working continually to address the problems posed by the dense human population so near Lake Michigan's shores. The staff is constantly revising its plans and projects to meet the needs of this ever-increasing user group.

As this relatively new Sea Grant Program continues to expand, it will take its place with the other more comprehensive programs working to achieve the goals of the National Sea Grant College Program.



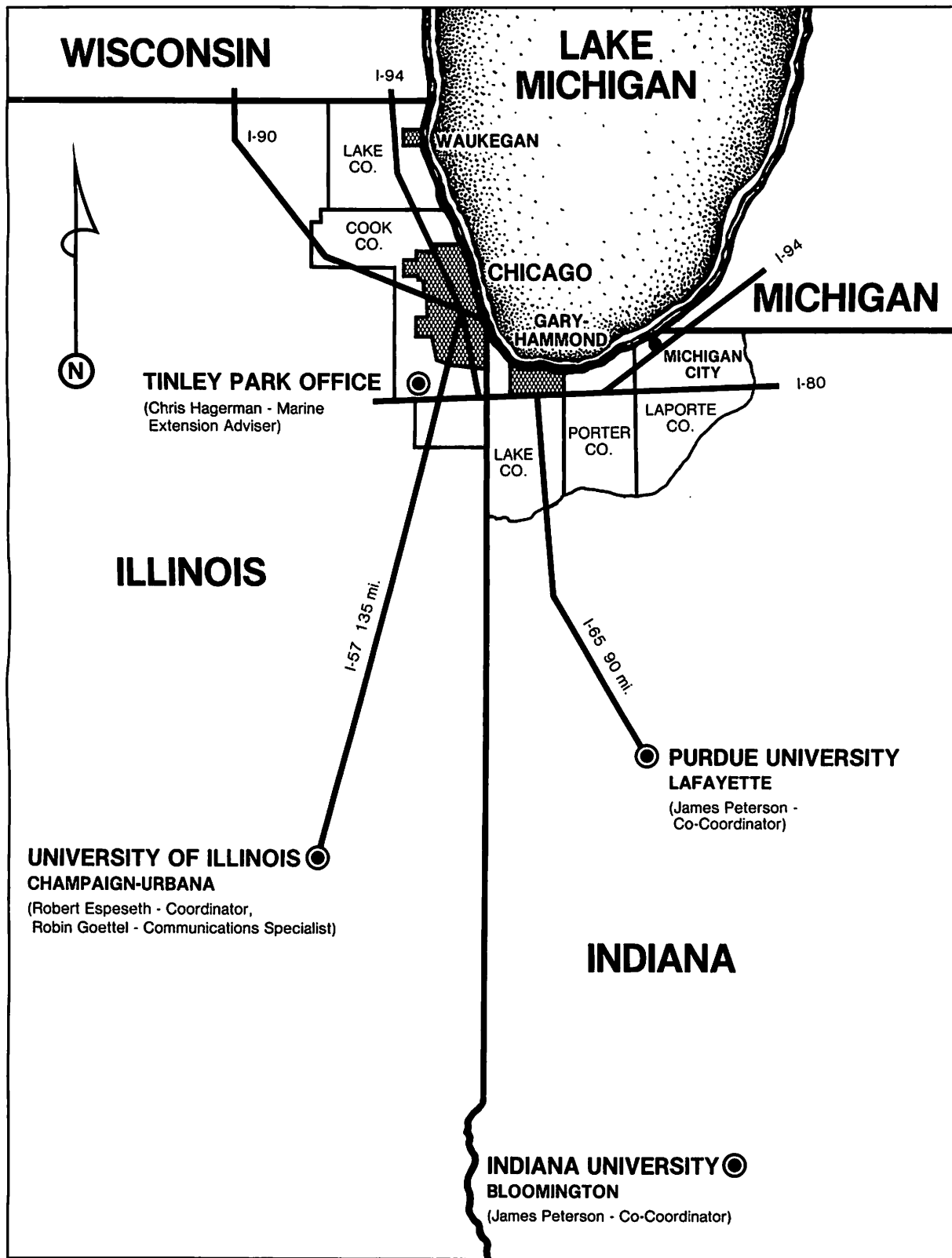


Figure 1. Location of Sea Grant Personnel

The Marine Extension Program

The Extension component of the Program works with identified resource user groups in Illinois and Indiana through advisory councils and other task force groups to identify problems and needs. (See Table 1 for a list of these agencies and industries.) It then carries these concerns and needs back to academic institutions so available technical information can be identified and provided to these resource users. Research projects can also be designed to obtain additional needed information.

Christine Hagerman serves as the area adviser for marine Extension in this Program. From April 1982-April 1984, the marine Extension component of the Program focused on the following subject areas:

- 4-H Marine Education
 - Wetlands
 - The Great Lakes Heritage Program
- The Marine Industry
- The Charterboat Industry
- Interim Area Advisory Committee
- P.O.R.T.S. Project
- Urban Waterfront Revitalization
- Tourism
- Aquatic Weed Management
- The Great Lakes Sea Grant Network — Salmonid Diet Study
- Other Educational and Technical Assistance

The 4-H Marine Education Program

At the outset of the Illinois-Indiana Sea Grant Program, materials from other Sea Grant states which have been involved with similar programs were collected and analyzed. This was done after a meeting



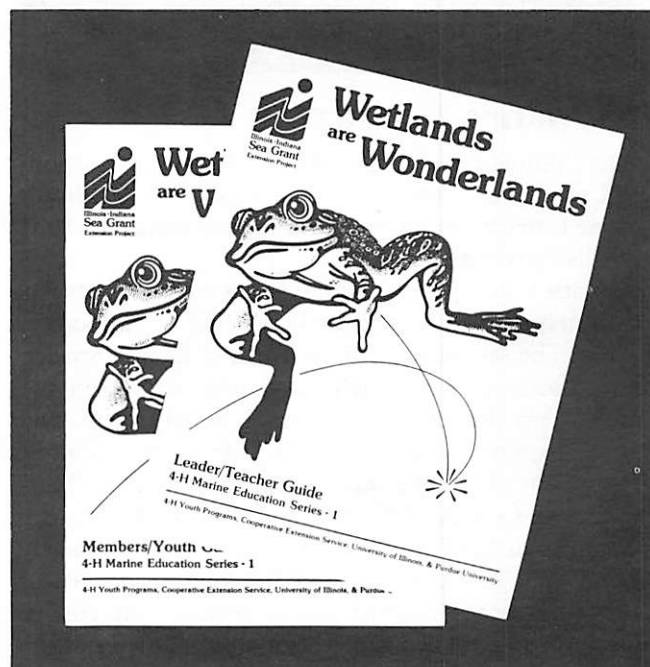
with Illinois and Indiana county advisers/agents and 4-H personnel exploring the interest in this type of program. Three counties indicated an interest in participating in a pilot project to work with the developed

materials, volunteer leaders and other resources.

A 4-H Marine Education Seminar was subsequently held at the University of Illinois at the Chicago campus to provide 4-H staff and volunteer leaders with information on the pilot program related to Sea Grant. Jim Lubner, Sea Grant Agent in Milwaukee, Wisconsin, presented marine education opportunities available through Sea Grant. Educational modules from several other states were reviewed and discussed. A wetlands demonstration was given by Christine Hagerman.

The Wetlands Project

A volunteer task force of 4-H advisers or designated assistants from Illinois and Indiana advised Hagerman that it would be worthwhile to focus on a wetlands module. Wetlands guides for 4-H members/youth and 4-H leaders and teachers were then developed by Hagerman. These were pilot tested by 4-H leaders in both Illinois and Indiana; then, two more pilot tests were conducted using 4-H members from these two states.



The guides were revised, incorporating suggestions and comments both made during the pilot tests and made by the Wetlands Project Task Force. Rough copies of the guides were printed in response to an immediate demand for training in the Wetlands Project; workshops were then held in December 1983 and March 1984. Final copies of the 2500 member/youth guides and 500 leader/teacher guides were published in May 1984.

The Great Lakes Heritage Program

Another educational module related to the Great Lakes is in the process of being developed for use in the 4-H program. It will outline possible projects and activities, for 4-H leaders and members, that aim to increase their awareness of the heritage, ecology, economic aspects and recreational opportunities of the Great Lakes.



The Marine Industry

The Illinois-Indiana Sea Grant Program co-sponsored three workshops with the Association of Illinois Marine Enterprises, to which Indiana marina operators were also invited to attend.

Dry stack storage and dock systems were the subjects of the first workshop held in June 1982 in Kankakee, Illinois. The second workshop featured Duane Spader, an outstanding marine educator, who addressed the areas of pricing policy, personnel management and leadership. This workshop was held in Harvey, Illinois in February 1983. The third workshop, entitled "Marinas Love Computers," featured Jon Phillips, who specializes in the design of software to help managers process information to facilitate timely decisions about their businesses. His presentation revealed the cost of computerizing a marine operation and pointed out the costly pitfalls. The workshop took place in Waukegan, Illinois in July, 1983.

The evaluations of all three workshops were very positive. Valuable suggestions were obtained and analyzed by an ad-hoc education committee for use in the development of future workshops. Constructive criticism was received regarding the content of the third workshop. Although over half of the participants felt that the presentation helped them make a better-informed decision in using computers in their marina operation, there were some participants that would have preferred either more basic or more advanced information on computers.

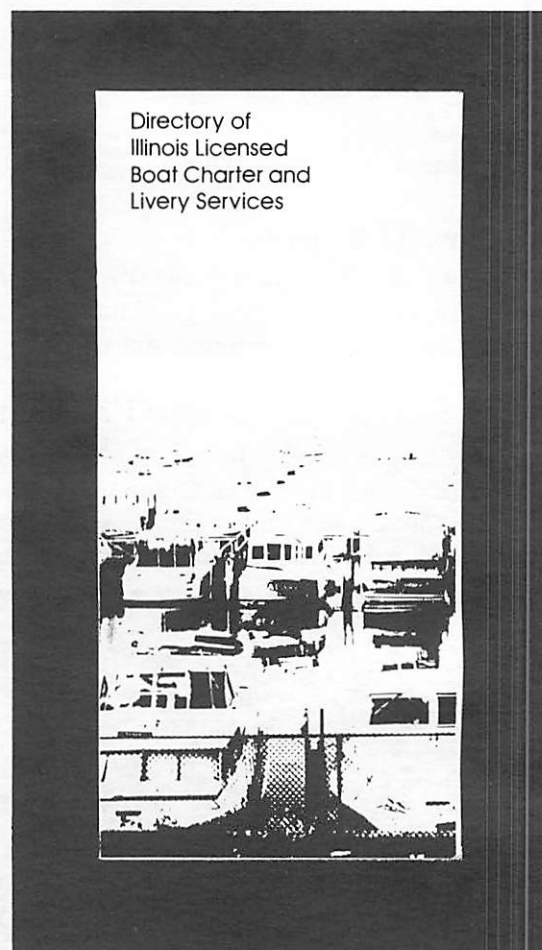
Technical information has been provided to other marine enterprises on a variety of subjects including aquaculture, marina management, floating tire breakwaters and shoreline stabilization.

The Charterboat Industry

An ad-hoc committee representing charterboat owners/operators was established to discuss educational and research needs of the industry. The following resulted from the recommendations of this committee:

1) A charterboat workshop took place in Chicago in March 1983. With the assistance of Jim Lubner, Wisconsin Sea Grant Advisory Service agent, many charterboat operators were informed about the Lake Michigan stocking program in Illinois and Indiana, charterboat user survey results, a new charterboat liability insurance program and fish contamination from Lake Michigan.

2) A charterboat directory was developed in conjunction with the Illinois Department of Conservation, which was responsible for gathering the data. The final document, published by the Illinois-Indiana Sea Grant Program and the Illinois Department of Commerce and Community Affairs was entitled, **The Directory of Illinois Licensed Boat Charter and Livery Services**.



3) A listing of all licensed charterboats in both states has been compiled.

The evaluation of the March workshop indicated interest in future workshops. The committee reviewed suggestions for future workshops and has scheduled several more.

Interim Area Advisory Committee

An Interim Area Advisory Committee (IAAC) of the Illinois-Indiana Sea Grant Program was initiated in July 1983. This committee was formed to provide better program input for the area marine Extension adviser. The IAAC included representatives of constituent groups and interest areas. (See Table 2). They have assisted in prioritizing Lake Michigan concerns which might be addressed through Sea Grant programs.

Bylaws and orientation materials were developed during the first three months prior to the committee's existence. A majority of the committee met in October 1983 at the Shedd Aquarium in Chicago. The members became acquainted at a dinner and a tour of the aquarium that was arranged for them. At this meeting, the members were involved in discussing and prioritizing Lake Michigan educational concerns which they felt the Sea Grant Program should address.

The second meeting, held in March 1984, took place at the Indiana Dunes National Lakeshore. After touring the Visitor Center and viewing a slide program of the National Lakeshore, the members planned an educational program for congressmen and their staffs on Lake Michigan awareness. This was both an audience and a subject the IAAC had designated as a prime focus for the Illinois-Indiana Sea Grant Program.

Port Objectives for Real Time Systems (PORTS)

The PORTS project was initiated by several offices of the National Oceanic and Atmospheric Administration (NOAA) to provide "real time" or up-to-the-minute environmental information that concerns ship-pers and ports. This vital information includes weather data, water levels, nautical chart changes, etc.

At the request of NOAA, Sea Grant is providing assistance by testing this system in the Great Lakes region. The marine Extension adviser obtained a representative from each program of the Great Lakes Sea Grant Network to meet with NOAA agents to explore how the project might be pursued in the Great Lakes area. As a result of this, the Ports of Cleveland and Duluth are exploring this idea more closely with NOAA.

Urban Waterfront Revitalization

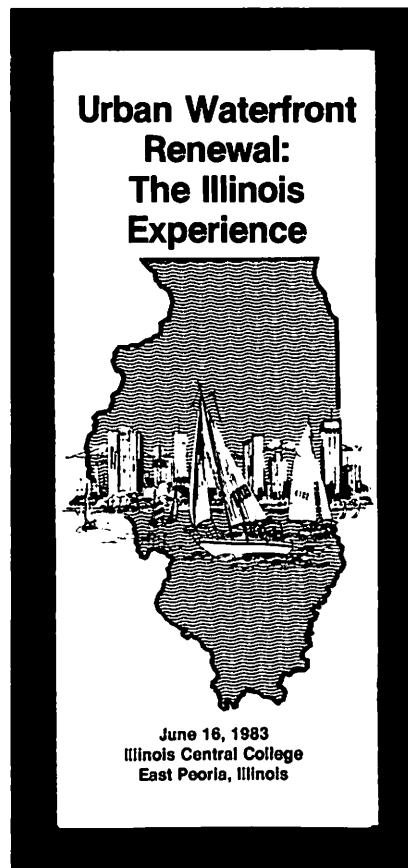
Many Illinois communities have recently revitalized their run-down riverfront areas into exciting commercial, residential and recreational areas. The Illinois-Indiana Sea Grant Program organized a workshop on urban waterfront renewal to address the potential for an increase in the number of waterfront renewal areas.

The workshop, "Urban Waterfront Renewal: The Illinois Experience," took place in East Peoria, Illinois in June 1983. It was co-sponsored by various agencies in Illinois (see Table 1).

The objectives of this workshop were accomplished

by:

- 1) stimulating an interest in urban waterfront renewal (UWR);
- 2) providing useful information about the UWR process;
- 3) defining a State role for UWR;
- 4) supplementing the facts and recommendations from an Illinois Department of Conservation study on what Illinois communities are doing to revitalize their waterfronts and
- 5) providing an opportunity for making contacts.



The conference featured speakers discussing the key elements of the UWR process. Presentations included local case studies, a look at waterfront renewal from a national perspective, community development and waterfront from a broad perspective and a panel discussion of support for UWR in the '80s.

The workshop's attendees consisted of public officials, planners, consultants, developers, recreation professionals, historic preservationists and other interested citizens. These participants filled out evaluation forms to summarize their opinions about this workshop. More than half of the respondents thought the workshop was very useful in that it provided new information and helped them make better-informed decisions. Many respondents felt that small group interactions would have been useful. The six case studies were found to be the most useful section by the majority of the participants.

Tourism

A tourism workshop, "NorthBest Indiana," was presented by the Illinois-Indiana Sea Grant Program. The workshop's purpose was to create enthusiasm among community leaders in northwest Indiana regarding the area's tourism potential.

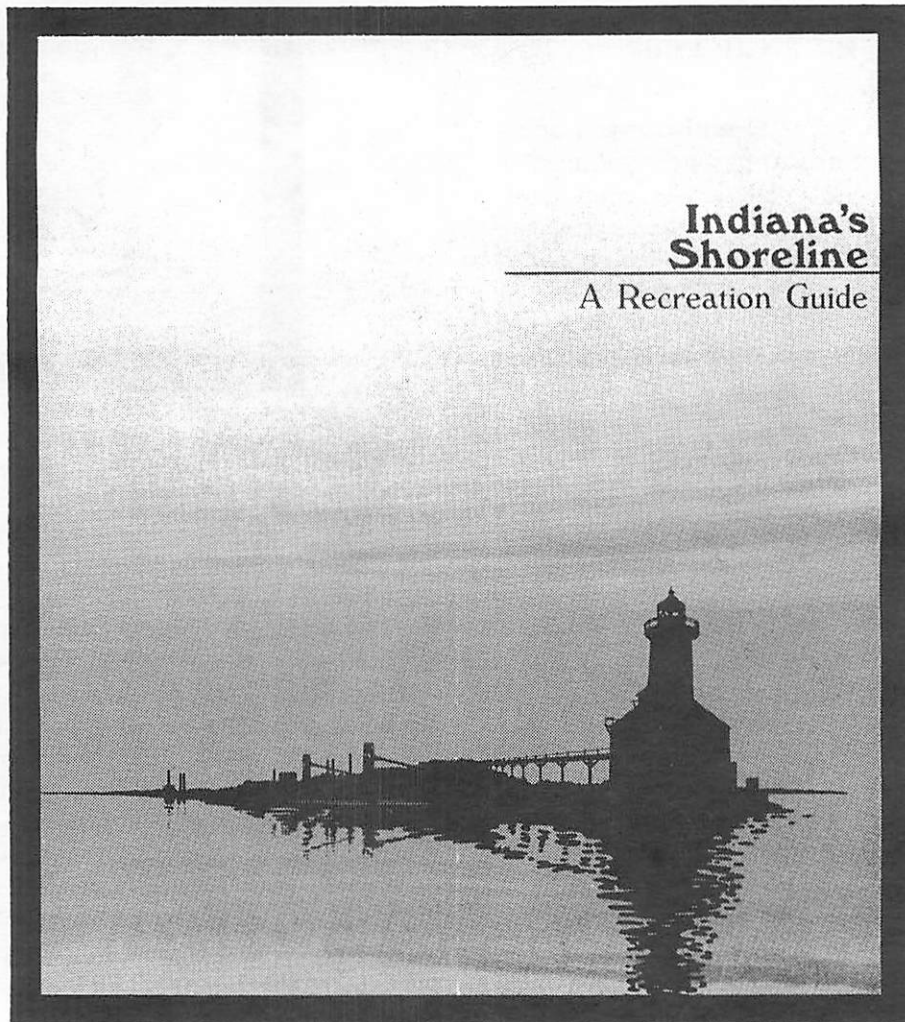
It was held in Merrillville, Indiana in November 1983. In addition to Illinois-Indiana Sea Grant, it was sponsored by several agencies in northwest Indiana (see Table 1).

The attendees of this program included public officials, planners, tourism boards, entertainment promoters, recreation boards, chamber of commerce officials, realtors and other interested citizens. They sat in on presentations about the plans that are currently underway to promote tourism in northwest Indiana and the anticipated economic impact of these efforts. Topics of discussion included: the local level of tourism development and planning, Lake Michigan as a tourism resource in northwest Indiana, the role of the public sector in tourism development, the state and national park presence in northwest Indiana, the role of the Calumet Forum, the economic impact of tourism and the future of tourism efforts in this region.

In addition, several films were shown, each providing a glimpse of the tourism potential in several areas of northwest Indiana, and promotional displays were provided by many of the co-sponsors. The workshop concluded with a question and answer session with the workshop's speakers.

Participants in this workshop filled out a critique sheet. From their responses, it was learned that the majority of attendees found new inspiration to promote northwest Indiana as a good place to visit, to recreate in and to live. They suggested that there should be more tourism-oriented educational programs, and that there was a need for greater regional cooperation to promote tourism potential. Many indicated a strong interest in attending a hospitality training program that will be offered by the director of the marine Extension program, Robert Espeseth.

The Illinois-Indiana Sea Grant Program was also involved with a project to enhance the image of northwest Indiana as an exciting tourism area. The Program cooperated with the Indiana Department of Natural Resources and other agencies in Indiana to prepare **Indiana's Shoreline — A Recreation Guide**. This publication provides a great deal of information related to the area's tourism potential.



Aquatic Weed Management

Commercial pesticide sprayers must pass a State exam to receive a State license to conduct their spraying activity. To assist them in preparing for the exam on aquatic weed control, Hagerman developed an educational program on the subject with the help of two Cooperative Extension colleagues, Phil Nixon and Jim Schuster. Each of the advisers selected one portion of the subject matter and developed a slide program and *corresponding* talk for their chosen topics. This workshop will be offered each spring shortly before exam time.

The Great Lakes Sea Grant Network

As part of a cooperative effort with the other programs in the Great Lakes Sea Grant Network, the Illinois-Indiana Sea Grant Program is actively involved in a study of the diet of salmonids in Lake Michigan.



The marine Extension adviser has participated in this study in a variety of ways by assisting with the collection of data, helping gather information for an educational display and providing handout materials. In the fall of 1983, she arranged a meeting for the researchers from Illinois, Indiana and Michigan to discuss project results and correlations. On two occasions, she assisted the researchers in presenting their findings to sportfishing organizations.

Results from this study will provide resource management agencies with information critical to the maintenance and use of the fisheries resource of Lake Michigan. A long range result of this study will be to sustain the economic return and enjoyment of sportfishing in this region.

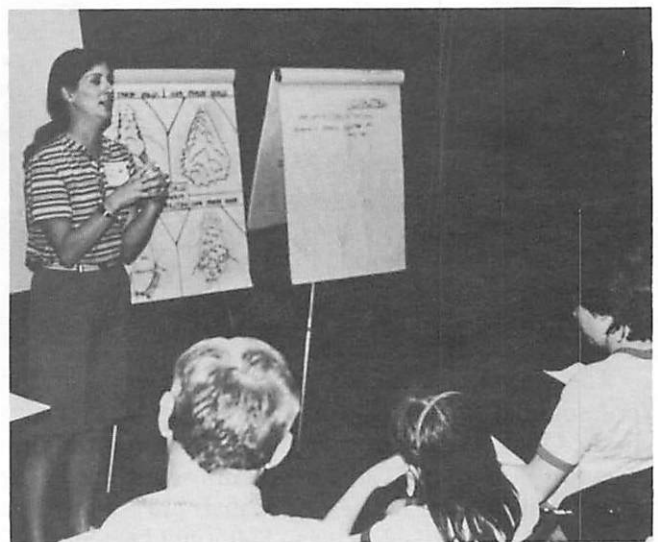
Other Educational and Technical Assistance

According to Cooperative Extension philosophy, one-third to one-half of a marine Extension agent's time should be allotted to requests for information, colleague assistance and other assistance related to Lake Michigan and water resource topics.

From April 1, 1982 to March 31, 1984, approximately 4000 people were assisted either individually or in groups. Some examples of assistance which required a great deal of time and effort included:

- 1) A marine careers slide presentation given to seventh graders at Chicago Junior High School in Elgin, Illinois;
- 2) A presentation entitled "Wetlands Food Web" given to nineteen 4-H members and adult leaders in South Cook County and
- 3) Development of an awards procedure and review committee for the newly formed Sea Grant Advisory Service Association. (Hagerman is vice president of this national professional association.)

Information was also requested on such topics as boating safety, boat-building courses, pier design, floating tire breakwaters, fish physiology and aquaculture. The Illinois-Indiana Sea Grant Program often referred to technical information available from other states in the Great Lakes Sea Grant Network because in its first year the Program did not yet have a research base or any in-house publications. Information was also obtained with the help of other institutions in the two states, including the primary cooperating institutions of the University of Illinois at Urbana-Champaign and Purdue University.



Hagerman has used the mass media to provide information to the general public. She participated in a fifteen minute radio interview on "Recreational Opportunities around Lake Michigan" for WKQX-FM radio in Chicago and was interviewed about her wetland education program on WGN-TV in Chicago.

The Communications Office

The communications component of the Illinois-Indiana Sea Grant Program serves to provide information about the Program to the public. In addition, this office is responsible for the Program's publication activities. At the present time, the communications office is staffed by Robin Goettel who works half-time in the Office of Agricultural Communications at the University of Illinois.

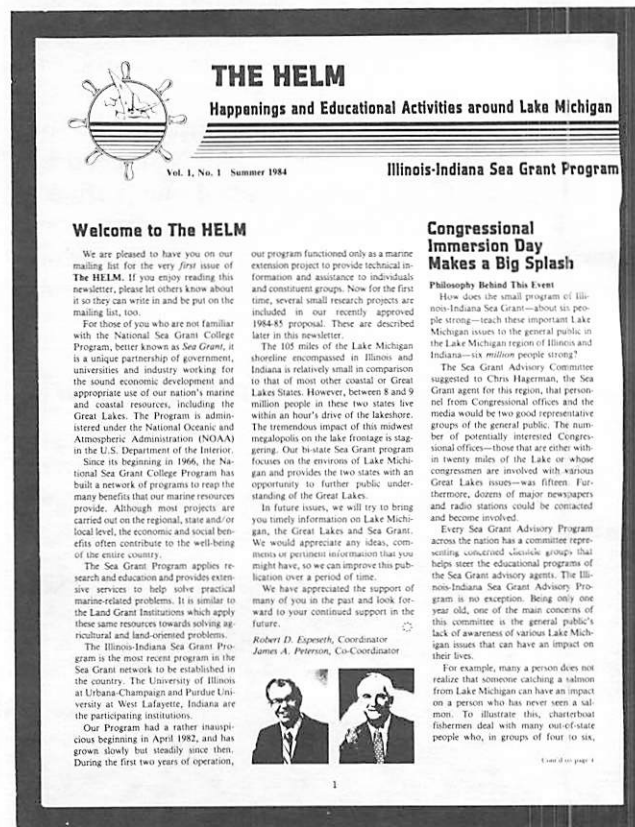
The communicator has provided mass communications support for the Program in the form of news releases. Promotional stories have been written for the workshops, "Urban Waterfront Renewal: The Illinois Experience" and "Computer Usage in Marina Operations OR Marinas Love Computers." In addition to promoting these workshops through the mass media, the communicator has edited brochures which were sent out to provide information on the workshops' purpose and agenda. These workshops were organized and chaired by the Program's marine Extension adviser.

Developing and maintaining contacts with media personnel (newspaper, radio and television) to inform them of the latest developments in the Program, has been another duty of the communicator. Many phone conversations have been held with the news departments of the four major Chicago television stations and several radio stations to inform them about the Program's activities in the Salmonid Diet Study, which is being conducted along Chicago's lakefront and along southern Lake Michigan.



The communicator has produced educational and promotional displays by working with graphic designers in the UIUC's Office of Agricultural Communications. The two displays that are already in use include: "The Great Lakes Heritage — The Canal Era" and "The Illinois-Indiana Lake Michigan Salmonid Diet Survey." The first display has been exhibited at a historical festival in Joliet, Illinois, at the Waterfront Renewal Workshop in Peoria and in the public gallery of the Chicago Sun Times building. The second display has been used by the UIUC's Agriculture Library in their display case and is being used at Lake Michigan harbors

as a public information tool for passers-by who wish to learn more about the salmonid food habits study.



Publications produced by the Illinois-Indiana Sea Grant Program are a primary responsibility of the communicator. She has edited several educational guides and fact sheets and has initiated the Program's quarterly newsletter, **The HELM**. She is also in charge of preparing materials for print by coordinating with the graphic designers. Then, the final publications are disseminated to the public using appropriate mailing lists.

A future responsibility of the communicator will be the writing and editing of the Program's Annual Report.

Financial Summary — 1982-84

Year	Project Number and Title	Investigators	NOAA Sea Grant Funds	UIUC And Purdue University Contributions
1982-83	A/M-1 Marine Extension Services	Robert Espeseth	\$80,475	\$54,120
1983-84	A/M-1 Marine Extension Service	James Peterson Christine Hagerman	\$99,982	\$60,736



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Edwin L. Goldwasser, Vice-Chancellor for Academic
Affairs
Theodore L. Brown, Vice-Chancellor for Research
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William R. Oswald, Director of the Cooperative
Extension Service and Associate Dean of the College
of Agriculture
Harvey J. Schweitzer, Assistant Director of the Coop-
erative Extension Service
Robin E. Herron, Dean of the College of Applied
Life Studies
Joseph J. Bannon, Head of the Department of
Leisure Studies

Purdue University

Stephen C. Beering, President of the University
Felix Haas, Executive Vice President and Provost
Struther Arnott, Vice President for Research and Dean
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Kenneth Yost, Director of Sponsored Programs
Bernard J. Liska, Dean of the School of Agriculture
Henry A. Wadsworth, Jr., Director of Extension and
Associate Dean of the School of Agriculture
Martin T. Pond, Assistant Director-Community and
Rural Development

Table 1

Other Agencies and Organizations Cooperating with the Illinois-Indiana Sea Grant Program

Wetlands Project

University of Illinois and Purdue University — Cooperative Extension
Service Administration and Agents
Michigan Sea Grant Program
Illinois Department of Energy and Natural Resources
Illinois Natural History Survey
Cook and DuPage County Forest Preserve Districts
Indiana Department of Natural Resources
Indiana Dunes National Lakeshore

Urban Waterfront Conference

Illinois Department of Conservation
Open Lands Project
Illinois Department of Commerce and Community Affairs
Tri-County Regional Planning Commission
Tri-County Riverfront Action Forum
Illinois Association of Park Districts
Illinois Park and Recreation Association, Parks and Natural Resources Section
American Planning Association
Illinois Chapter — Illinois Association of Downtown Developers

Ports Program

All Great Lakes Network Sea Grant Programs

Recreation and Tourism Conference

The Calumet Forum
Indiana Dunes National Lakeshore
Indiana Dunes State Park
Northwestern Indiana Regional Planning Commission
Lake County Tourism Convention and Visitor Bureau
LaPorte County Convention, Tourism and Recreation Bureau
Lake County Parks and Recreation Department
Porter County Exposition Center

Charterboat and Marine Enterprise Workshops

Association of Illinois Marine Enterprises
Michigan City, Indiana Charterboat Association
Chicago Sportfishing Association
Midwest Charterboat Association

Table 2

**Interim Area Advisory Committee (IAAC)
for the Illinois-Indiana Sea Grant Program**

Druscilla Banks, Home Economics Adviser
U. of I. Cooperative Extension Service

Dick A. Becker, Youth Coordinator
Purdue University Cooperative Extension Service

Don Enright, Owner
D-E Marine Charter

Lionel Eubanks, Owner Operator
Midwest Yachts

Jim Fizzell, Horticultural Adviser
U. of I. Cooperative Extension Service

Mary Goodley, 7th Grade Teacher
Benny Junior High School

Jim Hartung, Director
Indiana Port Authority

Dan Injerd, Lake Michigan Programs
Division of Water Resources
State Department of Transportation

Bob Koch, Lake Michigan Fishery Biologist
Indiana Department of Natural Resources

Jim Lubner, Field Agent
Wisconsin Sea Grant Advisory Service

Wes Scharlach, Area Community Development Agent
Purdue University Cooperative Extension Service

John Schnurlein, Vice President
Northern Indiana Bank and Trust Company

Connie Skibbe, Director
Park District of Highland Park

Lew Timberlake, Director
Michigan City Port Authority