

# OHIO SEA GRANT

## *Briefing Book*

NOAA Sea Grant Site Visit, May 26-27, 2010



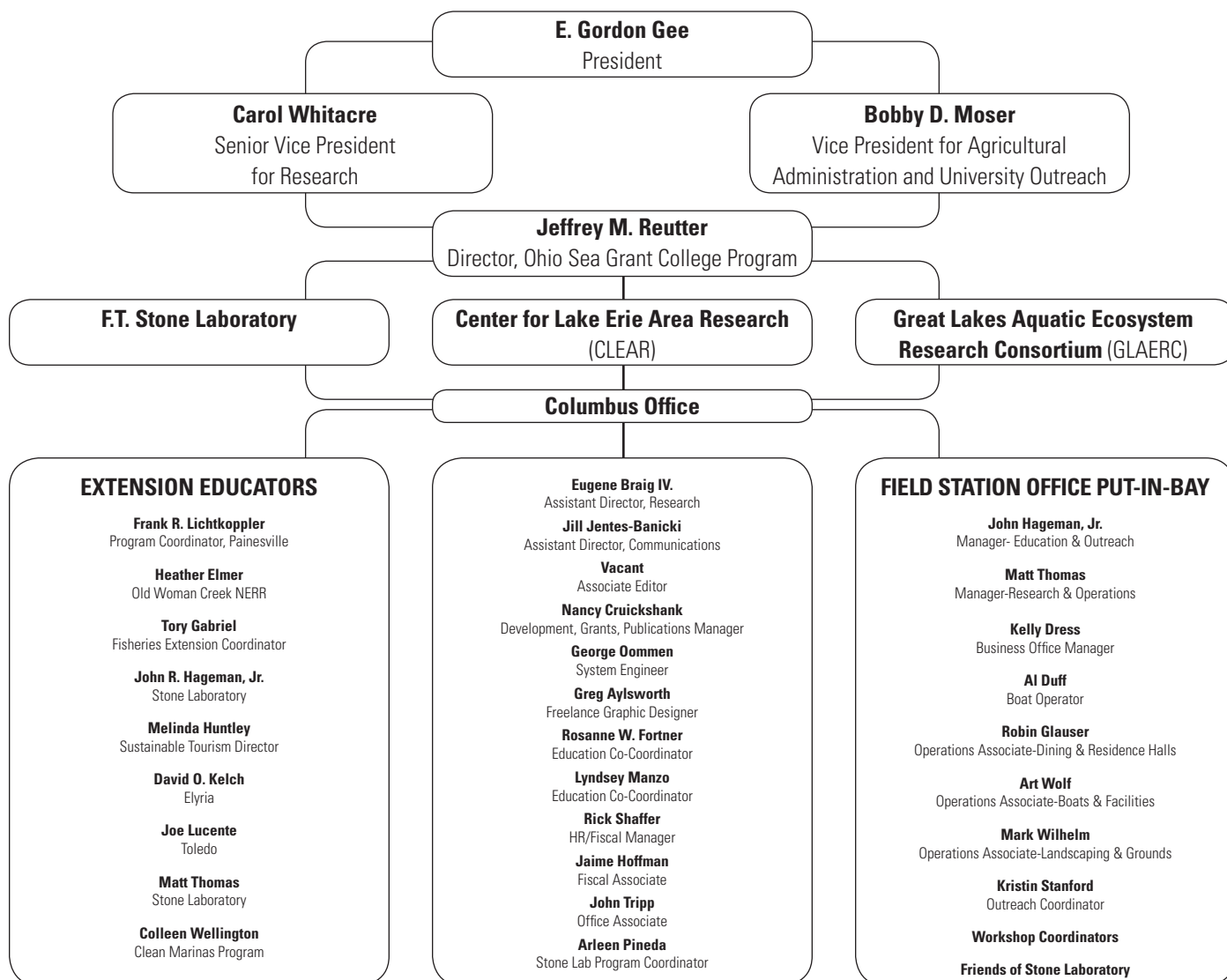
# PROGRAM MANAGEMENT AND ORGANIZATION

## Leadership

### *Setting of the Program within the University*

Dr. Jeffrey M. Reutter is Director of the Ohio Sea Grant College Program at The Ohio State University (OSU) which includes: Stone Laboratory, this country's oldest freshwater biological field station (1895), the Center for Lake Erie Area Research (CLEAR), and the Great Lakes Aquatic Ecosystem Research Consortium (GLAERC), a consortium of 12 Ohio colleges and universities. Dr. Reutter reports to two vice presidents at OSU: Dr. Caroline Whitacre, Vice President for Research, and Dr. Bobby D. Moser, Vice President for Agricultural Administration. Stone Laboratory is the shared research facility for GLAERC and the base for many of Ohio Sea Grant's research, education, and outreach programs.

### Organizational Chart for Ohio Sea Grant and Stone Laboratory Institutional Setting



11-2009



# PROGRAM MANAGEMENT AND ORGANIZATION *(cont'd.)*

## Ohio Sea Grant Management Team Composition and Responsibilities

### **Dr. Jeffrey M. Reutter, Director: 0.75 FTE**

Serves as Program Director. Responsibilities include developing management goals and objectives for program; hiring and managing staff; overseeing fundraising and budgets; preparing and evaluating proposals; planning events and donor development; developing Stone Lab curriculum and hiring faculty; coordinating of legislative and congressional interactions; and leading state, regional, and national groups.

### **Eugene C. Braig IV., Assistant Director-Research: 1.00 FTE**

Acts as Research Coordinator and liaison for PIs. Responsibilities include coordinating reporting to national office and omnibus submission; coordinating project funding with OSU Office of Sponsored Programs; providing university approvals on travel and expenditures; and developing partnerships with agencies/stakeholders and collaborative proposal development.

### **Jill Jentes Banicki, Assistant Director-Communications: 1.00 FTE**

Serves as the Communications Manager and media and university relations liaison for the program. Responsibilities include analyzing and developing strategies to increase program visibility and student recruitment; creating educational and marketing publications, displays, and web sites to broaden audience exposure; producing merchandise to increase fundraising efforts for non-profit Friends of Stone Lab group; and developing partnerships and collaborative projects at university, state, and regional levels.

### **Frank R. Lichtkoppler, Program Leader (Co-Coordinator): 1.00 FTE**

Serves as Extension Program Leader (~35% of time) and Extension Specialist (~65% of time). Program Leader responsibilities include extension program leadership, extension grant writing, budget development and grant management; assisting in overall extension outreach programming; and mentoring junior extension faculty & staff. Responsible for conducting education and outreach programming in Northeast Ohio (Lake & Ashtabula Counties). Supervises six full-time employees.

### **Fred L. Snyder, Program Leader (Co-Coordinator, retired 31 August 2009): 1.00 FTE**

Shared program leader responsibilities with Frank Lichtkoppler from 1999 to 2009

### **Rick Shaffer, Business Manager: 1.00 FTE**

Serves as fiscal/HR manager for Ohio Sea Grant and Stone Lab. Responsibilities include developing and monitoring budgets, approving expenditures; developing and maintaining effective internal controls to ensure compliance with university, state, and federal policies; overseeing all personnel issues, including appointments, salaries, and timekeeping. Supervises one full-time employee.

## Advisory Boards Membership and Function

Each extension agent has an advisory committee and the two agents at Stone Laboratory use the Board of Directors of the Friends of Stone Lab as their committee. Together these committees have over 130 members. They are very active and participate in fund raising activities, hosting meetings (e.g. State Legislature/Congressional Day), staffing booths at sport shows, volunteer in our offices and labs, and lead visitors at the South Bass Island Lighthouse and Gibraltar Island. The meeting frequency of these

committees varies from monthly to annually. The Director participates in numerous committee meetings and also uses the advice from his counterparts on the International Joint Commission's Council of Great Lakes Research Managers, Lake Erie Millennium Network, Great Lakes Regional Research Information Network, and the Lake Erie Partnership (Old Woman Creek, Ohio Coastal Management Program, and the Lake Erie Commission).

# RECRUITING TALENT

## RFP Priorities and Planning Process

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Since 2006, 36-47% of Ohio Sea Grant's core budget has been dedicated to competitively funded projects. Proposals for small grants (requesting up to \$10,000) from our development fund can be submitted to our office at any time. Proposals for larger research grants (up to \$60,000 per year for up to three years) are requested through a biennial request for proposals (RFP). Submissions are welcome from anyone, and the RFP is disseminated to every college and university in Ohio. The most recent RFP is publicly accessible through the research pages on our web site: [www.ohioseagrant.osu.edu/research](http://www.ohioseagrant.osu.edu/research).

Preproposals submitted to the RFP cycle are subject to review by a panel consisting of both internal Ohio Sea Grant and external scientists and agency professionals. Based upon that panel's review, full proposals are either invited or discouraged; however, no proposal will be declined based upon preproposal evaluations.

Full proposals submitted to the RFP cycle are all subject to external peer review. Investigators are required to provide a list of potential reviewers with proposal submission. Investigators and reviewers are instructed to both avoid and list any possible conflicts. Each proposal will be reviewed by at least four peers and at least one of those must not be from the list recommended by the investigator. Investigators are also permitted to draft written responses to peer reviews before proposals and reviews are evaluated by an external panel of expert professionals and scientists invited from agencies, academia, industry, and other stakeholders. A representative from the National Sea Grant Office attends the panel meeting to ensure fairness and the absence of conflicts of interest. The Director of Ohio Sea Grant takes recommendations of the panel into consideration when deciding which proposals to include in our biennial omnibus submission to the National Sea Grant College Program. In recent years we have included representatives from the Lake Erie Partnership (Old Woman Creek NERR, Ohio Coastal Management Program, and the Lake Erie Commission) on each of our panels. In addition to being good scientists, they bring to the panel a clear understanding of management needs. Their participation has also created opportunities to leverage Sea Grant funds by co-funding projects with each of these organizations.

In an effort to elicit more quality submissions that address area concerns related to social sciences, a special request for projects "that can create jobs and enhance economic activity through improved practices, product creation, and specialized training" was issued in our 2009 RFP. The request also sought projects focused on "human dimensions studies and proposals documenting the economic value of Lake Erie natural resources and the impact of cleaning up Lake Erie Areas of Concern." This request resulted in the successful submission of two economic studies to begin February 2010. We expect to continue and refine our efforts to encourage socioeconomic research with future RFPs.

In addition, we sometimes give priority to projects to be jointly funded with collaborating sponsors. This was the case with our 2009 RFP, where priority was "given to supporting at least one project at Old Woman Creek NERR focusing on healthy coastal ecosystems. This project will be co-funded by Old Woman Creek and Sea Grant." This request also resulted in one successful submission for an invasive species project to be conducted at the NERR site. In 2007, this strategy resulted in a harmful algal bloom project jointly funded by the Lake Erie Commission. We will continue to encourage similar collaborations with potential cosponsors in future RFP cycles.

In addition to focusing on priorities and actions for the future, our regular planning process includes a number of self-evaluation activities designed to improve the operation and effectiveness of the program. These activities included:

- meetings with our external Sea Grant Extension Advisory Committees, the Friends of Stone Laboratory, and the Ohio State University Vice Presidents for Research and Agriculture (and their administrative staffs) to review our efforts and priorities;
- one-on-one meetings between the director and each staff member to discuss their position and ideas; and
- quarterly/monthly meetings or conference calls of the Sea Grant Administration, Extension, and Communication staff.

# PROJECT STATISTICS

<b>Proposal Statistics by Funding Cycle</b>	<b>2006-08</b>	<b>2008-10</b>	<b>2010-12</b>
Preproposals received	29	26	25
Institutions submitting preproposals	9	17	10
Preproposals from home institution	13	11	11
Full proposals submitted	18	17	18
Institutions submitting full proposals	8	6	7
Proposals from home institution	8	7	9
Proposals funded	8	7	8
Institutions funded	4	4	3
Proposals funded from home institution	4	2	6

<b>Project Statistics</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
Continuing projects	18	20	20	18	16
PIs and Co-PIs on continuing projects	21	26	25	26	16
Institutions on continuing projects	2	4	3	5	5
New projects	5	4	4	5	2
PIs and Co-PIs on new projects	7	7	6	8	5
Institutions on new projects	3	2	3	4	2

<b>Success in National Competitions</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
Ship time support	\$44,454	\$21,000	\$17,194	\$42,275	\$45,000
FEE	\$90,000	\$90,000	\$90,000	\$90,000	\$56,250
GLRRIN		\$125,000	\$125,000	\$50,000	\$50,000
SARP				\$150,000	\$150,000
Total projects	2	3	3	4	4
Regional collaborations		1	1	2	2

# REGIONAL/MULTI-PROGRAM PROJECTS

## Great Lakes Regional Research Information Network and Lake Erie Millennium Network

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GLRRIN is patterned after the very successful Lake Erie Millennium Network (LEMN) which was established in 1998 following two meetings organized by Dr. Reutter to discuss phosphorus levels in Lake Erie. LEMN is led by four scientists: one from academia in the US (Jeff Reutter—OSU) and Canada (Jan Ciborowski—Univ of Windsor—the conceptual author of LEMN) and one from a federal or provincial agency in each country (Russ Kreis, USEPA, and Chris Marvin, Environment Canada). In 2005, the Biennial Report of the International Joint Commission (IJC) praised LEMN and recommended forming similar networks on the other lakes. In 2006, Dr. Reutter led the effort to successfully duplicate LEMN on each of the other lakes and to create an overall team for the region. Together the five lake teams and the regional team constitute GLRRIN which officially came into being with its first funding from the National Sea Grant College Program 1 June 2006. The regional leadership team for GLRRIN was elected at GLRRIN's first management meeting in September 2006 hosted by the US Environmental Protection Agency's (EPA) Great Lakes National Program Office (GLNPO) in Chicago. The team consists of Jeff Reutter and Jan Ciborowski representing academia, and Paul Horvatin, USEPA, and John Lawrence, Environment Canada, representing federal agencies. Mark Burrows, IJC, was selected as our secretary. Jeff Reutter is the principal investigator on the grant that comes to Ohio Sea Grant and is subcontracted, with no indirect costs, to the other regional Sea Grant Programs. Jill Jentes Banicki chairs GLRRIN's Outreach and Education Committee. GLRRIN has been officially accepted by the Binational Executive Committee and given specific roles within the Cooperative Science and Monitoring Initiative (CSMI) including identify research needs and coordinating regional outreach efforts with the Lakewide Management Plans (LaMPs).

## Phosphorus Research Collaboration

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Dr. Reutter coordinated the development of seven projects representing 14 agencies and 25 scientists to address phosphorus loading issues. All seven projects were funded (\$750,000) by USEPA and the Lake Erie Protection Fund.

## Great Lakes Restoration Initiative

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Ohio Sea Grant coordinated development of two major three-year projects from the seven regional Sea Grant Programs totaling \$3.3 million to the Great Lakes Restoration Initiative (GLRI). We also coordinated 13 research proposals from a number of universities working on Lake Erie and partnered with the Lake Erie Commission to do the synthesis and summary work on all proposals submitted to the GLRI by Ohio agencies.

## NOAA Ship Time Support

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This funding is critically important to the operation of our research fleet—*RV Gibraltar III*, *MV Biolab*, and *RV Erie Monitor*—to support our research, education, and outreach programs on Lake Erie. Chartered time for various programs and events is diverse and ranges from STEM education for middle school field trips to support of competed research by academic investigators and projects on priority Lake Erie issues in support of our Research Experience for Undergraduate to outreach functions for elected officials and decision-makers.

# REGIONAL/MULTI-PROGRAM PROJECTS *(cont'd.)*

## NOAA Sectoral Applications Research Program

Coastal Resource Management/Water Resource Management Preparing Coastal Communities for Climate Change: Translating Model Results to Prepare Ports, Harbors and Stormwater Management Facilities in an Era of Climate Variability and Scientific Uncertainty. We combine a research and outreach approach to address climate change obstacles in the Great Lakes using the ports of Duluth, Minnesota and Toledo, Ohio as examples for climate modeling and outreach involving key stakeholder sectors.

## Fisheries Extension Enhancement

Ohio's Fisheries Extension Enhancement (FEE) program hired an individual to increase our sport and commercial fisheries education and outreach capacity. We have effectively enhanced the delivery of fisheries extension services to clientele. We have worked to promote sustainable Lake Erie, Great Lakes and US fisheries resources. We have worked with the Great Lakes Sea Grant Network and other partners to expand our delivery of fisheries information via such programs as the Great Lakes Fisheries Leadership Institute and the Aquatic Visitors Center at Put-in-Bay, Ohio.

## Great Lakes Observing System

Great Lakes Observing System (GLOS) a regional node of the national Integrated Ocean Observing System (IOOS), is a 501 (c) 3 corporation that is working to provide public access to Great Lakes real time data for multiple users of Great Lakes resources. Led by the OH Sea Grant and MI Sea Grant programs the GLOS Education and Outreach Committee was formed to help identify user needs, formulate key deliverables, and to initiate a strategic education and outreach effort for GLOS. The Great Lakes Sea Grant Network (GLSGN) has received funding for GLOS Education and Outreach work in 2007, 2008, and 2009. F. Lichtkoppler (OHSG) and S. Stewart (MISG) are Co-Chairs of the GLOS Education and Outreach Committee and are leading the GLSGN effort to expand GLOS education and outreach efforts in 2010. GLOS has website at: [www.glos.us](http://www.glos.us).

## Habitattitude!

Habitattitude! is a national campaign to prevent the introduction of aquatic invasive species by aquarium and water garden owners. It is a partnership of the US Fish and Wildlife Service, state fish and wildlife agencies, the Great Lakes Sea Grant Network (GLSGN) and the U.S. Pet Industry Joint Advisory Council (PIJAC) and its member organizations. Habitattitude! is founded on social marketing principles and is designed to raise awareness, provide ownership for the aquatic invasive species issue and empower people to take preventative actions to reduce potential AIS introductions from aquarium and water garden owners. Within the GLSGN, MNSG leads this effort.

## Great Lakes Regional Integrated Sciences and Assessments Center

Ohio Sea Grant Extension is a partner with the University of Michigan/Michigan State University Great Lakes Regional Integrated Sciences and Assessments Center (RISA) and will assist the RISA in outreach and education efforts over the next five years. The goals of the RISA are to contribute to the long-term sustainability of the Great Lakes region in the face of multiple and simultaneous changes, including regional climate change, and to improve the utility of scientific knowledge in decision making. The RISA will focus initially on the watersheds of Lake Huron and Lake Erie (broadly, the political units of Michigan, Ohio, and Ontario) and on three critical sectors: agriculture, watershed management, and natural resources-based recreation and tourism.

# FUNDING

Distribution of Funds	2005	2006	2007	2008	2009
Research	\$388,726	\$475,086	\$483,852	\$470,802	\$463,610
Extension	\$451,341	\$451,341	\$451,341	\$450,000	\$450,000
Education	\$54,977	\$60,409	(COSEE)	(COSEE)	(COSEE)
Communications	\$53,000	\$60,000	\$65,000	\$65,000	\$65,000
Program Development	\$50,000	\$50,000	\$70,000	\$68,439	\$75,630
Administration	\$61,156	\$70,164	\$96,807	\$96,807	\$96,807

## Leveraged Funding

2006 Projects	Source	Amount
Clean Marinas Program	OSU Extension	\$25,000.00
COSEE-Great Lakes	National Science Foundation	\$550,000.00
Economic Benefits of Ashtabula River Dredging	USEPA	\$15,000.00
Endowments to Stone Lab: 1.4% increase in FY2006 to \$1,112,183 principal	Private contributions	\$15,425.00
Ex Post Benefits of the Ashtabula River Dredging: Preliminary Data Collection	LEPF	\$10,000.00
Facility Upgrades at Stone Laboratory	Ohio Board of Regents and Ohio State Legislature	\$500,000.00
Facility Upgrades at Stone Laboratory: sewer and water replacement	The Ohio State University (OSU)	\$520,000.00
GLOS Education & Outreach	Great Lakes Commission	\$23,571.00
Lake Erie Coastal Ohio	National Scenic Byways Program	\$25,000.00
National Scenic Byway Program Economic Impact Tool Development Steering Committee	America's Byways Resource Center	\$78,000.00
Ohio Clean Marinas Program	ODNR-Office of Coastal Management	\$50,000.00
Ohio Lake Erie Underwater Trailway Development	OLEC-Lake Erie Protection Fund	\$9,500.00
Ohio Lake Erie Underwater Trailway Development	ODNR-Office of Coastal Management	\$4,500.00
Stone Lab Research Experience for Undergraduate awards	Misc. Endowments	\$26,348.00
Stone Lab Scholarships	Misc. Endowments	\$16,887.00
Tourism Extension	OSU Extension	\$18,000.00
Tourism Extension	Lake Erie Coastal Ohio, Inc.	\$36,000.00
Secretarial/Clerical support of Extension Program	OSU Extension	\$109,508.00



# FUNDING *(cont'd.)*

## Leveraged Funding (cont'd.)

2007 Projects	Source	Amount
Center for Ocean Science Education Excellence (COSEE)-Great Lakes	National Science Foundation	\$106,887.00
Development of Ohio's Rapid Response Plan for Aquatic Invasive Species	Great Lakes Commission	\$8,750.00
Endowments to Stone Lab: 3.9% increase in FY2007 to \$1,155,622 principal: includes support for 5 students in summer 2007	Private contributions	\$43,439.00
F.T. Stone Laboratory Research Experience for Undergraduate (REU) Awards: 11 students supported	Misc. endowments	\$37,271.00
F.T. Stone Laboratory Scholarship Awards: 37 students supported	Misc. endowments	\$20,755.00
Facility Upgrades at Stone Laboratory: sewer and water replacement	The Ohio State University (OSU)	\$2,080,000.00
Great Lakes Observing System (GLOS): education & outreach	GLOS Regional Association	\$7,000.00
Lake Erie Coastal Ohio National Scenic Byways Program	Federal Highway Administration	\$25,000.00
Lake Erie Shore Erosion Management Plan (LESEMP): local community needs assessment focus group	Ohio Department of Natural Resources, Coastal Management Program	\$20,784.00
Lake Erie Shore Erosion Management Plan (LESEMP): local community needs assessment mail survey	Ohio Department of Natural Resources, Coastal Management Program	\$20,544.00
Ohio Clean Marinas Program	Ohio Department of Natural Resources, Office of Coastal Management	\$75,000.00
Ohio Clean Marinas Program	OSU Extension	\$20,308.00
Ohio Sea Grant FY2007 State Line Item	Ohio Board of Regents	\$231,925.00
Shipwrecks and Maritime Tales of the Lake Erie Coastal Ohio Trail: brochure	Ohio Lake Erie Commission, Lake Erie Protection Fund	\$9,955.00
Shipwrecks and Maritime Tales of the Lake Erie Coastal Ohio Trail: web site	Ohio Department of Natural Resources, Office of Coastal Management	\$4,500.00
Tourism Extension	OSU Extension	\$27,460.00
Tourism Extension	Lake Erie Coastal Ohio, Inc.	\$42,906.00
University FY2007 Support for F.T. Stone Laboratory: includes support for 9 undergraduate students and 7 graduate student teaching assistants in summer 2007	The Ohio State University (OSU)	\$280,260.00
University FY2007 Support for the Center for Lake Erie Area Research (CLEAR)	The Ohio State University (OSU)	\$191,640.00
Viral Hemorrhagic Septicemia Federal Cooperative Agreement: Ohio Sea Grant College Program Scope of Work	Ohio Department of Agriculture, Division of Animal Industry	\$32,000.00
Secretarial/Clerical support of Extension Program	OSU Extension	\$105,676.00

2008 Projects	Source	Amount
Center for Ocean Science Education Excellence (COSEE)-Great Lakes	National Science Foundation	\$105,336.00
Endowments to F.T. Stone Laboratory: 3.9% increase in FY2008 principal to \$1,200,671	Private contributions	\$62,774.00
F.T. Stone Laboratory Research Experience for Undergraduates (REU) Awards: 9 students supported	Misc. Endowments	\$27,239.00
F.T. Stone Laboratory Scholarship Awards: 22 students supported	Misc. Endowments	\$14,850.00
F.T. Stone Laboratory support for seasonal research/lab assistants: interest income supported 4 undergraduate seasonal employees in summer 2008	Misc. Endowments	\$4,519.00
Lake Erie Coastal Ohio National Scenic Byways Program	Federal Highway Administration	\$25,000.00
ODNR Aquatic Invasive Species Subsidy Agreement: Development of a Statewide Management Plan	Ohio Department of Natural Resources, Division of Wildlife	\$20,000.00
Ohio Clean Marinas Program	Ohio Department of Natural Resources, Coastal Management Program	\$75,000.00
Ohio Clean Marinas Program	OSU Extension	\$9,074.00
Ohio Harmful Algal Bloom Initiative: Outreach	Ohio Lake Erie Protection Fund	\$14,962.00
Ohio Sea Grant FY2008 State Line Item: includes support for 4 student employees	Ohio Board of Regents	\$300,000.00
Tourism Extension	OSU Extension	\$22,459.00
Tourism Extension	Lake Erie Coastal Ohio, Inc.	\$44,918.00
University FY2008 support for F.T. Stone Laboratory: includes support from various departments for 8 undergraduate seasonal employees and 8 graduate teaching assistants in summer 2008	The Ohio State University (OSU)	\$297,103.00
University FY2008 support for the Center for Lake Erie Area Research (CLEAR)	The Ohio State University (OSU)	\$201,705.00
Secretarial/Clerical support of Extension Program	OSU Extension	\$102,928.00

# STAKEHOLDER ENGAGEMENT

## *Leadership by Staff on Boards and Committees*

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### Jeff Reutter

President, 2003-2005, National Association of Marine Laboratories (NAML)  
US Co-Chair, current; member, 1989-present, Council of Great Lakes Research Managers, International Joint Commission  
US Co-Chair, 2006-present, Great Lakes Regional Research Information Network (GLRRIN)  
US Co-Chair, 1998-present, Lake Erie at the Millennium Network for US and Canada  
Member, 2005-09, Ocean Research and Resources Advisory Panel (ORRAP)  
Chair, 2007-09; member, 2007-present, Education Sub-Panel of the ORRAP  
Member, 2006-08, Research to Applications Task Force (RATF) of the ORRAP  
Board of Trustees, 2009-present, The Nature Conservancy, Ohio  
Member, 2006-08, NOAA Science Advisory Board Extension, Outreach and Education Work Group  
Member, 2003-07, National Steering Committee, Global Ocean Observing System  
Chair, 2003-07, IOOS Work Group for the National Sea Grant College Program  
Board Member, 1992-2005, Great Lakes Protection Fund  
President, 1998-99, The Ohio State University Chapter of Sigma Xi  
Executive Committee, 2000-2003, Board of Oceans and Atmospheres, NASULGC  
“Fellow” and Member, 2003-08, Ohio Academy of Science  
Member, 1998-present, Grant Making Committee, Lake Erie Protection Fund  
Member, 2000-present, NOAA Old Woman Creek NERR Advisory Committee  
Member, 2003-2006, Steering Committee, Great Lakes Observing System (GLOS)

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### Eugene Braig

Research Coordinator Chair Elect, 2010-present, National Sea Grant Association  
President-Elect, 2009; Secretary, 2008, Association of Natural Resources Extension Professionals, Ohio Chapter  
Member, 2008-present, Ohio Aquatic Invasive Species Committee  
Alternate Member, 2008-present, Mississippi River Basin Panel, Aquatic Nuisance Species Task Force  
Aquatic Invasive Species Team Leader, 2008-present, Outreach Committee, Western Lake Erie Basin Partnership  
Member, 2008-present, Ohio Interagency Workgroup on Harmful Algal Blooms  
Stewardship Committee Chair, 2008-present; President, 2006, Ohio Chapter, American Fisheries Society  
Member, 2005-present, Council of Great Lakes Research Managers, International Joint Commission  
Steering Committee, 2004-present, Ohio Certified Volunteer Naturalist Program  
Faculty Advisor, 2007-present, Buckeye Friends of Stone Lab (student organization)  
Faculty Advisor, 2000-present, TerrAqua: Student Chapter, Soil and Water Conservation Society at OSU  
Trustee and Meeting Coordinator, 1999-present, The Ohio Smallmouth Alliance

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### Jill Jentes Banicki

Chair, 2004-2006, Great Lakes Sea Grant Network Communicators  
Chair, 2006-present, Outreach and Education Committee, Great Lakes Regional Research Information Network (GLRRIN)  
Member, 2007-present, Marketing Committee, Great Lakes Observing System (GLOS)  
Member, 2007, Planning Committee, Great Lakes Sea Grant Network Conference  
Member, 2007-present, OSU Outreach and Engagement Council  
Member, 2009-present, Planning Committee, OSU Communicators  
Member, 2007-present, OSU College of Food, Agricultural, and Environmental Sciences Communicators  
Member, 2009-present, OSU Climate Change Outreach Team  
Team Lead, 2010-present, Marketing Team, NOAA Climate Mini-Grant

# STAKEHOLDER ENGAGEMENT *(cont'd.)*

## *Leadership by Staff on Boards and Committees*

### **Frank R. Lichtkoppler**

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Member & Secretary, 1999-present, Mentor Marsh Board of Management  
 Executive Committee Member, 2002-present; Secretary, 2002-2007; Treasurer, 2007-present, Lake Erie Coastal Ohio Board (LECO)  
 Member, 2000-present; Wetlands & Biodiversity Committee Chair, 2000-2004, Marsh Area Regional Coalition (MARC)  
 Secretary, 2008-present; Member, Ashtabula Remedial Action Plan Council  
 Board Member, 2005-present, Vice President, 2009-present, Ohio Coastal Resource Management Project (OCRMP)  
 Co-Chair, 2006-present, Education and Outreach Committee, Great Lakes Observing System  
 Member, 2009-present, OSU Climate Change Outreach Team  
 Member 1998-2000 and 2004-2006 Promotion & Tenure Committee, College of Food Agriculture and Environmental Science  
 Member 2008, 2009, 2010 Department of Extension, CFAES Ad Hoc Promotion & Tenure Committee for Professor Candidates, Chair 2008, 2009

### **Heather L. Elmer**

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Member, 2008-2009, Coastal Training Program Oversight Committee, National Estuarine Research Reserve System  
 Member, 2009-present, Climate Training Working Group, National Estuarine Research Reserve System  
 Member, 2009-present, Western Lake Erie Basin Partnership Outreach Committee  
 Member, 2009-present, Northeast Ohio Stormwater Training Council  
 Member, 2008-present, Ohio Stormwater Conference Planning Committee  
 Member, 2007-present, Ohio State University Extension - Erie County Advisory Committee  
 Member, 2006-present, Source Contaminant Technical Subcommittee – Firelands Coastal Tributary Watershed Program  
 Chapter Trustee & Secretary, 2008-present, Western Reserve Land Conservancy - Firelands Chapter  
 Board Member, 2005-2007, Firelands Land Conservancy

### **Tory Gabriel**

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Member, 2009, Planning Committee, Great Lakes Sea Grant Network Conference  
 Faculty Co-Advisor, 2009-present, OSU Bass Fishing Club

### **John Hageman**

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Ohio Coastal Resources Advisory Council, 2010  
 Secretary, 1991-present, Erie-Ottawa-Sandusky County, Ohio Chapter, Pheasants Forever  
 Ohio State Council Legislative Liaison, 2000, Pheasants Forever  
 Membership Co-Chairman, 1988-present, Lake Erie Islands Chapter, Ducks Unlimited  
 Co-Chair, 1992-present, Put-in-Bay Underwater Clean-Up

### **Melinda Huntley**

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Board Member, 2007-present, National Scenic Byway Foundation  
 Chair, 2007-2009, Steering Committee, America's Byways Resource Center  
 Board Member, 2009-present, Keep Ohio Beautiful  
 President, 2007; Vice President, 2006; Treasurer, 2005; Executive Committee, 2005-08; Member, 1986-present, Ohio Travel Association  
 Vice President, 2006-present, Advisory Committee, Old Woman Creek National Estuarine Research Reserve  
 Chairman, 2009-present, Ohio Tourism Association Legislative Committee  
 Chairman, 2008-present, Ohio Tourism Association committee for the Ohio Tourism Leadership Academy  
 Member, 2009-present, Ohio Tourism Roundtable legislative committee comprised of Ohio Travel Association, Ohio Hotel Lodging Association, Ohio Restaurant Association and Ohio Association of Convention & Visitors Bureaus.  
 Member, 2009-present, OSU Climate Change Outreach Team  
 Co-Chairman, 2008-present, Ohio Tourism Team

# STAKEHOLDER ENGAGEMENT *(cont'd.)*

## *Leadership by Staff on Boards and Committees*

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### **Dave Kelch**

Board Member, 1985-present, Lorain County Visitor Bureau  
Member, 2008-present, Black River Remedial Action Plan (RAP) Coordinating Committee  
Member, 2008-present, State of Ohio Aquatic Invasive Species Committee  
Alternate Member, 2008-present, Great Lakes Panel, Aquatic Invasive Species Task Force  
Member, 2007-present, Wisconsin Sea Grant Clean Marinas Program Steering Committee  
Member, 2007-present, Great Lakes Sea Grant Network's Aquatic Invasive Species (AIS) Committee

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### **Joe Lucente**

Committee Member, 2008-2009, NOAA Sea Grant National Coastal Sustainable Community Development National Conference Committee  
Member, 2006-present, West District Community Development, Ohio Extension Professionals Association  
Member, 2005-present, Marketing/Membership Service Committee, National Association of Community Development Extension Professionals  
Member, 2005-present, Recognition Committee, National Association of Community Development Extension Professionals  
Member, 2006-present, State Charters Committee, National Association of Community Development Extension Professionals  
Member, 2003-2008, Nomination Committee, Ohio Extension Agents Association  
West District Community Development Representative, 2003-2006, Ohio Extension Agents Association  
Member, 2002-present, Great Lakes Coastal Community Development Specialist Committee  
Committee Member, 2005-2006, Lake Erie Balanced Growth Plan Steering  
Member, 2005-present, Lucas County Emergency Operations Center Assessment Group  
Member, 2003-present, Toledo Area Chamber of Commerce's Economic Development and Infrastructure Committees  
Member, 2002-present, Maumee River Remedial Action Plan Public Education and Outreach Committee  
Contributing member to seven OSUE departmental ad hoc administrative, program and review committees, 2004-2010

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### **Matt Thomas**

Board Member, 2000-present, Diving Control Board, OSU Office of Research Compliance  
Board Member, 2009-present, Lake Erie Chapter of the Black Swamp Land Conservancy  
Member, 2005-present, Research Advisory Committee, Friends of Stone Lab  
Member, 2006-present, Lake Erie at the Millennium Network for US and Canada

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### **Colleen Wellington**

Clean Marinas Team Leader, 2009-present, Outreach Committee, Western Lake Erie Basin Partnership  
Member, 2009-present, National Clean Marinas Program Committee  
Member, 2009-present, Ohio Department of Health (ODH) Marina Rules Review Committee  
Personnel Committee, 2008-present, Ohio Association of Extension Professionals



# PARTNERSHIPS

*(see full listing in the Partnerships' table provided in NIMS Management Metrics)*

Ohio Sea Grant works with approximately 300 stakeholder organizations. Stakeholders serve on advisory committees, assist with fund raising, provide in-kind donations for special events and programs, assist in developing program priorities and conducting programs, co-fund projects, fund projects, and much more. Some of the key stakeholders are listed below.

- **Old Woman Creek National Estuarine Research Reserve:** Ohio Sea Grant uses the Old Woman Creek site as a frequent meeting location, our courses at Stone Lab use it for field trips, we have adopted their Coastal Training Program Coordinator as an Ohio Sea Grant Extension Specialist, we co-fund projects, and we aid each other in evaluating research proposals. Ohio Sea Grant serves on its advisory council.
- **Office of Coastal Management:** The Coastal Office in collaboration with the Ohio Department of Natural Resources (ODNR) Division of Soil and Water Conservation sponsors the Ohio Clean Marinas Program by annually dedicating a portion of their Coastal Management Assistance Grant (CMAG) funding. Coastal Management also provides office space and vehicular support to Ohio Sea Grant staff to coordinate our Clean Marinas program. The Coastal Office has dedicated \$50,000-75,000 of CMAG funding to the program each year, 2006-09.
- **US Fish & Wildlife Service, Reynoldsburg Ecological Services Field Office:** The US Fish & Wildlife Service recently partnered with Ohio Sea Grant on a joint monitoring project. The field office dedicated biological staff and hardware to the project. This collaboration leveraged a \$32,000 grant from the Ohio Department of Agriculture to monitor for viral hemorrhagic septicemia (VHS) in Ohio's fishes and has informed Ohio's policy on managing the disease.
- **National Park Service, Perry's Victory and International Peace Memorial:** Collaboration with the National Park Service Perry's Victory and International Peace Memorial is diverse, ranging from partnerships in interpretation to employee management. In 2009, Ohio Sea Grant and the National Park Service developed CSI (Culture and Science Investigation) Lake Erie Tours, multi-site educational experiences that linked the history of the memorial and the War of 1812 to environmental and stewardship issues.
- **National Park Service Rails, Trails and Conservation Assistance Program:** This National Park Service Program provides financial support for staff facilitating the Western Reserve National Heritage Area Feasibility Study civic engagement and public participation project. A separate stakeholder advisory group has been formed for this project that has thus far reached more than 250 stakeholders in northern Ohio.
- **International Joint Commission's Council of Great Lakes Research Managers:** CGLRM is part of the IJC. Dr. Reutter is the US Co-Chair of the Council. This group provides advice to the governments of the US and Canada about Great Lakes research needs. This organization includes all federal agencies working on Lake Erie in the US and Canada.
- **Ohio Department of Development, Tourism Division:** The Ohio Tourism Division supported the development of the Ohio Tourism Toolbox, an online resource for educating the state's tourism industry by providing match support, technical assistance, and frequent opportunities for promoting the toolbox to state industry members. The Ohio Tourism Division also participates in the Ohio Tourism Leadership Academy by providing speakers, facilities, and feedback on curriculum development designed to foster emerging leaders of the state's tourism industry.
- **Ohio Tourism Association:** This industry association with more than 700 members is a partner in the coordination of the Ohio Tourism Leadership Academy and provides staff support for program promotion, coordination of venues, and feedback for curriculum development.

# PARTNERSHIPS *(cont'd.)*

*(see full listing in the Partnerships' table provided in NIMS Management Metrics)*

- **Ohio Department of Natural Resources, Division of Wildlife:** Division of Wildlife interests are perhaps the most diverse amongst our stakeholders. Ohio Sea Grant holds two positions on the state Aquatic Invasive Species (AIS) Committee organized by the division and receives grant funds to work on revisions to the Comprehensive State Management Plan for AIS for which that committee serves as an advisory panel. We also represent the state of Ohio on behalf of the division on both the Great Lakes and Mississippi River Basin Panels of the National Aquatic Nuisance Species Task Force. The AIS partnership was launched by a partnership with the division that leveraged Great Lakes Commission funding to sponsor a workshop to provide stakeholder input to the division in formulating a Rapid Response Plan to AIS.

Sea Grant also supported research conducted by the American Fisheries Society and Division of Wildlife (via NOAA ship time support) to explore viable alternatives to the recreational angling industry impacted by restrictions imposed because of VHS on the movement of baitfish.

The Division of Wildlife has recently partnered with Ohio Sea Grant to operate a very successful Lake Erie outreach program at our Aquatic Visitors Center, the historic state fish hatchery at Put-in-Bay on South Bass Island. The division owns the facility while Ohio Sea Grant operates the outreach program from it on a \$1/year lease. In our first summer of operation, the program attracted more than 12,000 visitors to learn about Great Lakes science and critical issues facing Lake Erie.

Division biologists/administrators and Lake Erie specialists serve on our technical review panels to evaluate research proposals. In turn, since 2006, Ohio Sea Grant has attended the Division of Wildlife's Lake Erie and Inland Waters Annual Research Review organized by The Ohio State University's Aquatic Ecology Lab to provide feedback on the aquatic research sponsored by the division.

The Division of Wildlife contributes to our annual Charter Captains Conference, various outreach and policy efforts, and many other Sea Grant programs and projects. The Division of Wildlife is also a partner in a new project promoting the birding opportunities along Lake Erie and is supplying creative and development costs of an interactive website. Ohio Sea Grant also provided training to Division of Wildlife management and staff in 2009 and provided a keynote speaker for the Division's Wildlife Diversity Conference.

- **Ohio Department of Natural Resources, Division of Watercraft:** Ohio Sea Grant partnered with the division to develop the Ohio Clean Marinas Program. They provide us with raw data on boat sales used in our reports to aid dealerships with maintaining the appropriate inventory.
- **Ohio Department of Agriculture, Division of Animal Industry:** Ohio Sea Grant has recently been working with the Division of Animal industry to explore possible means to increase the profitability of aquaculture in Ohio and develop it into a more substantial industry. A 2007-08 monitoring program conducted by Ohio Sea Grant in collaboration with the Division of Animal Industry and the US Fish & Wildlife Service along with continued counsel by Sea Grant helps to refine the department's regulatory proclamation on intrastate fish movement that aims to prevent the spread of VHS inland from Lake Erie.
- **Ohio Environmental Protection Agency:** Ohio Sea Grant sits on the interagency Harmful Algal Bloom Workgroup organized by the Ohio EPA. Through this group, Sea Grant and Ohio EPA partnered with the Ohio Departments of Natural Resources and Health on related outreach. The Ohio EPA certifies water professionals in the state of Ohio and partnered with Stone Laboratory to develop workshops on algae identification and algal toxins that apply toward maintaining professional certification.
- **Ohio Lake Erie Commission:** Ohio Sea Grant is an official advisor to the Commission and we collaborated on proposals to the GLRI. The Commission is also part of LEP.

# PARTNERSHIPS *(cont'd.)*

*(see full listing in the Partnerships' table provided in NIMS Management Metrics)*

- **Lake Erie Partnership:** Ohio Sea Grant is currently participating in the Lake Erie Partnership (LEP), a collaborative planning effort for leveraging education and outreach activities among the Ohio Lake Erie Office, Ohio Sea Grant, Old Woman Creek NERR, and the Office of Coastal Management. The LEP was originally called the Coastal Research Advisory Group (CRAG) While operating as autonomous organizations, each of the partners collaborates with the others in developing coordinated strategic and implementation plans. We co-fund projects and partner on education and outreach efforts, e.g., the development of Lake Erie Literacy Principles.
- **OSU Climate Change Outreach Team:** The Ohio State University Climate Change Outreach Team began in 2009 as a partnership among several Ohio State departments, Byrd Polar Research Center, Ohio State Extension, and Ohio Sea Grant to get climate change information out to the general public. Over the past year, the team has created a web site with climate change resources for Extension and a webinar series to bring together experts from around the region to teach the public about climate-related topics. Ohio Sea Grant leads the team's communications efforts, as well is in the process of developing a web site for the general public.
- **Ohio Phosphorus Task Force:** This task force was created by Ohio EPA to develop solutions to Lake Erie's biggest problems: phosphorus loading, harmful algal blooms, and the Dead Zone. Ohio Sea Grant has been instrumental in developing research proposals to address these issues.
- **Center for Ocean Sciences Education Excellence-Great Lakes:** Ohio Sea Grant investigator Rosanne Fortner has led COSEE since its inception in 2005. This collaboration brings Great Lakes Sea Grant programs together with educators and researchers to enhance Great Lakes science literacy.
- **Great Lakes Research and Outreach Consortium:** Dr. Reutter led the effort for the region in 2006 to form the Great Lakes Research and Outreach Consortium (GLROC). This consortium of the seven Great Lakes Sea Grant Programs is designed to foster collaboration and make it easier for any one of the programs to accept funding for the entire region and subcontract to the other programs. The GLROC consortium was successfully used to route funding to collaborating programs on our current NOAA Sectorial Applications Research Program project.
- **Great Lakes Commission:** We collaborate with the Commission on outreach for GLRRIN and the Great Lakes Observing System (GLOS).
- **Great Lakes Observing System:** Ohio Sea Grant is the co-chair for the GLOS Education and Outreach Committee.
- **International Association for Great Lakes Research:** Ohio Sea Grant is the co-chair of the International Association for Great Lakes Research (IAGLR) Outreach Committee.
- **Lake Erie Marine Trade Association:** LEMTA provides free booth space for us at the Cleveland Boat Show, they donate proceeds from Lake Erie Day at the Show to Ohio Sea Grant, and we collaborate on the leadership of the Ohio Clean Marinas Program. In 2009 and 2010, LEMTA sponsored an Ohio Sea Grant Day at the Cleveland Boat Show, providing opportunities for Ohio Sea Grant to provide presentations and donating a portion of the day's proceeds back to the Ohio Sea Grant program.
- **Cedar Point:** Cedar Point donates their Bay Harbor Restaurant and an elegant walleye lunch for all attendees at our biennial Ohio Sea Grant State Legislature/Congressional Day on Lake Erie.
- **Jet Express:** The Jet Express donates transportation services for all attendees at our biennial Ohio Sea Grant State Legislature/Congressional Day on Lake Erie.

# COLLABORATIVE NETWORK/ NOAA ACTIVITIES

## **List of Collaborative Activities/Projects of Program**

Ohio Clean Marinas Program

Lake Erie Partnership

IJC Council of Great Lakes Research Managers

Lake Erie Millennium Network

Binational Executive Committee, Cooperative Science and Monitoring Initiative

Great Lakes Regional Research Information Network (GLRRIN)

Great Lakes Regional Integrated Science and Assessments Center

Great Lakes Research and Outreach Consortium

COSEE Great Lakes

NOAA Marine Debris Program

NOAA Sectoral Applications Research Program

NOAA Climate Engagement Mini-Grant

NOAA Sea Grant's Coastal Communities Adapt to Climate Change Project

NOAA Sea Grant - Fisheries Extension Transition

NOAA Sectoral Applications Research Program (SARP)

GLSGN - Sustainable Coastal Community Development

GLSGN - GLOS Education and Outreach Committee

GLSGN – IAGLR Outreach Committee



# PROGRAM CHANGES RESULTING FROM PREVIOUS REVIEW

The 2005 PAT rated Ohio Sea Grant with “highest performance” in 14 of 16 categories—lots of praise with a few recommendations.

## **Recommendation 1. Improve Research Building and Cooke Castle**

Ohio Sea Grant and Stone Lab received \$750,000 from state for Research Building. Ohio Sea Grant and Stone Lab received \$500,000 from University for solar panels and solar water heaters.

## **Recommendation 2. More Quantifiable Strategic Plan**

NOAA Sea Grant National Office sent out the 2010-2014 Ohio Sea Grant Strategic Plan as an example for other programs.

## **Recommendation 3. “Toot your horn about your accomplishments more often.”**

The program has increased its coverage in media over the past 5 years, consistently being quoted in more than 300 newspaper and magazine articles annually.

Ohio State University is the largest university in country and Ohio Sea Grant was selected as its top outreach program in 2009, competing with 26 other OSU programs.

Ohio Sea Grant Extension and Stone Lab education achievements were highlighted in 1/6 of its College of OSU Food, Agricultural, and Environmental Sciences annual report in 2007.

Ohio Sea Grant Extension and Stone Lab achievements were considered two of the College of OSU Food, Agricultural, and Environmental Sciences’ high impact programs at its State Legislature Luncheon in 2008.

The program was one of the first four OSU programs to be featured on the University’s Big Ten Network program in Fall 2007. The Big Ten Network has a potential viewership of 30 million.

OSU University Relations featured Ohio Sea Grant’s education and research program in its “Do Something Great” promotional campaign, a video campaign that showcases the university’s top assets. The video was featured on the OSU home page in 2007 and its broadcast is now part of the university’s (7,000 incoming freshmen) orientation week.

Ohio Sea Grant research (with NOAA funding noted) has been showcased in OSU departmental magazines from OSU Colleges of Engineering, Biological Sciences, and Food, Agricultural, and Environmental Sciences, as well as web features for WOSU radio and University Relations.

# PROGRAM CHANGES RESULTING FROM PREVIOUS REVIEW *(cont'd.)*

## **Recommendation 3. “Toot your horn about your accomplishments more often” *(cont'd.)***

Stone Lab researcher Kristin Stanford was featured on *Dirty Jobs*, the #1 show on the Discovery Channel. More than 25 million people world-wide have seen the show.

The Ohio Sea Grant and Stone Lab Program was one of five university programs highlighted in the university president’s speech and subsequent university video to more than 1,500 Ohio businessmen to illustrate the university’s state-wide reach and accomplishments in February 2009.

Ohio Sea Grant Communications has won 15 international, national, and university awards since 2005.

Ohio Sea Grant partnered with WKYC-TV in Cleveland to produce a four-part Lake Erie documentary, *Beyond the Surface*, in Spring 2007. To date more than 250,000 viewers watched the series, which is still being broadcasted today.

Ohio Sea Grant partnered with WGTE Public Television to produce the hour-long *Lake Erie: Our Great Lake* in 2006, a documentary that is still being broadcasted today throughout the Midwest with PBS affiliates.

Ohio Sea Grant’s sustainable tourism efforts were featured in NOAA Coastal Services magazine in 2009.

# LAST 2-3 YEARS: OUR MOST PRODUCTIVE AND SUCCESSFUL IN HISTORY

- **Change in Stone Lab Structure:** Instead of having separate units and reporting structures at Stone Laboratory for facilities, residence and dining, and research/education/outreach, all three are now part of the academic program and report through the Director of Ohio Sea Grant. Facilities and residence/dining were reporting a combined annual operating loss of \$350,000/year. The new model has eliminated that deficit and resulted in improved user satisfaction, increased donations, and more grants. This demonstrates the success of the President's "One University" model.
- **New Endowments:** In an effort to support the university's strategic plan and goals, we have maintained our focus on "students first, students now" and, with the assistance of the Friends of Stone Lab, have created two new scholarship endowments (total endowments now 18).
- **Great Lakes National Program Office and Lake Erie Protection Fund Phosphorus Projects:** In December 2008 USEPA's GLNPO and the LEPF issued seven separate calls for research proposals dealing with the phosphorus and harmful algal bloom issue. Dr. Reutter organized and hosted a video conference for approximately 75 scientists from 25 binational agencies and universities and proposed a plan for them all to work together and submit collaborative proposals. Ultimately 25 scientists from 14 agencies participated and the group of projects submitted by this team has won all seven awards. The principal investigators each agreed to tax their projects 5% and distribute the funds to Ohio Sea Grant to do summary and synthesis work for all seven projects.
- **New Construction at Stone Lab:** We have hired an architect and are reviewing plans to spend \$750,000 from the State Legislature to renovate the Stone Lab Research Building and the first floor of the Stone Lab classroom building. Construction will begin by fall 2010.
- **Solar and Wind Power at Stone Lab:** We successfully competed for sustainable energy funding at Stone Lab and have been awarded a grant of \$500,000 to install solar panels and solar thermal on Gibraltar Island to reduce our operating costs and become a new and significant part of our research, education, and outreach program. Plans are also underway for wind power at the Lab.
- **Great Lakes Restoration Initiative for Lake Erie and State Agencies:** In response to USEPA's \$120 million call for proposals for the Great Lakes Restoration Initiative, Dr. Reutter offered to support the synthesis and summary work for any project on Lake Erie that wished to participate. Thirteen investigators joined the team with their projects. Dr. Reutter offered the same option to the State of Ohio and all Ohio state agencies joined the collaboration. Ultimately, this will allow us to prepare a single, clear and concise report linking management and research on Lake Erie.
- **Great Lakes Regional Research Information Network:** GLRRIN was organized by Ohio Sea Grant and formed in 2006 at the request of the IJC. In 2008, Environment Canada joined as one of the lead agencies and the Binational Executive Committee (BEC) created clear roles for GLRRIN in their Cooperative Science and Monitoring Initiative (CSMI) to develop research needs for each lake and the region and to collaborate with IJC and the Lakewide Management Plans (LaMPs) to disseminate the results to users.
- **Lake Erie Partnership:** In 2008 and 2009 we strengthened the partnership between Ohio Sea Grant, Old Woman Creek NERR, the Ohio Coastal Management Program, and the Lake Erie Commission. We collaborate on developing education and outreach plans, co-fund research projects, and serve on each other's review panels to evaluate and prioritize proposals. This eliminates any possibilities of duplication and enhances linkages between management and research.
- **Literacy Principles:** As chair of the Education Subpanel of the Ocean Research and Resources Advisory Panel (ORRAP), Dr. Reutter participated in the development of ocean literacy principles and the development of the ocean education message in the transition documents prepared by ORRAP for the Obama administration. The outreach/education coordinators for LEP led the way in creating Lake Erie Literacy principles that mirrored the ocean principles. These then served as the model to create the Great Lakes Literacy Principles and literacy principles for each of the other Lakes.

## LAST 2-3 YEARS: OUR MOST PRODUCTIVE AND SUCCESSFUL IN HISTORY *(cont'd.)*

- **Staff Changes:** Fred Snyder, our first Ohio Sea Grant agent, retired. Tory Gabriel, our Fisheries Extension Specialist, applied for and was hired into Fred's old position in northwest Ohio. Civil service staff at Stone Lab that had reported to Physical Facilities and Student Life, were hired into new A & P positions as part of Ohio Sea Grant, Office of Research. Rick Shaffer was hired as our business manager. Matt Thomas became the Co-Lab Manager at Stone Lab. Three former employees at Stone Lab either retired, moved, or changed jobs and left the program. Melinda Huntley was hired as the Sea Grant Extension Tourism Director in 2006. This action has greatly expanded our outreach and influence on Great Lakes and Ohio tourism.
- **Office Changes:** With Snyder's retirement, we closed our Camp Perry Office and moved the extension office to the Ottawa County Extension Office. We closed our Port Clinton facility and our office at the Great Lakes Science Center. With changes at Stone Lab, we assumed management of the South Bass Island Lighthouse and conduct education and outreach programming there for the public.
- **Strategic Plan:** We developed a new strategic plan that incorporated plans from NOAA, National Sea Grant, Ohio State University, our old plan, the Lake Erie Commission, the IJC, and Great Lakes Restoration Plans. As this plan was being developed, the National Sea Grant College Program asked us if they could send it to other programs as an example of how to do it.
- **State Legislature/Congressional Day:** This event continues to be a premier outreach event for elected officials.
- **State Line Item:** When most programs were receiving significant budget cuts, we were able to maintain a level budget. This will be an even greater challenge in the future.
- **Coastal County Commissioners and Mayors Day on Lake Erie:** We initiated this new outreach event for regional decision-makers in 2008.
- **COSEE Great Lakes:** Our education coordinator, Rosanne Fortner, has been the principal investigator on this project since it started. We are now collaborating with COSEE to finalize Great Lakes Literacy Principles.
- **Clean Marinas and Shrink-Wrap Recycling:** This program is funded by the Ohio Coastal Management Program and now includes almost 50 marinas. Our Clean Marina Coordinator, Colleen Wellington, is housed within the Coastal Management Office. We have collaborated with Mondo Polymer, Inc. in Marietta, Ohio, to recycle shrink-wrap from boats into plastic spacers on highway guardrails. More than one million pounds covering over 200 miles of highway has been converted to these spacers and prevented from entering landfills. Five other programs have mirrored our shrink-wrap program and have recycled another one million pounds of plastic with Mondo.
- **State Fish Hatchery:** The Ohio Division of Wildlife has leased the historic State Fish Hatchery at Put-in-Bay to Ohio Sea Grant for \$1/year. We conduct a joint education and outreach program in the facility for Ohio Sea Grant and the Division of Wildlife. This is a great location to explain Lake Erie problems and issues to the public and what we are doing with our research to address them. More than 12,000 visitors went through the facility in 2009.
- **Shipwrecks:** We have received grants from the Lake Erie Commission and the Ohio Coastal Management Program to develop a shipwreck brochure and website.
- **CSI: Lake Erie:** "Culture and Science Investigations: Lake Erie" is a new collaboration we have entered into with National Park Service and Perry's Monument at Put-in-Bay. This program includes a guided tour of the Monument, the State Fish Hatchery, and the South Bass Island Lighthouse.
- **REU Program:** Our Research Experience for Undergraduates program was started in 2005 and is funded entirely with donated endowment funds. These students take a 5-week course at Stone Lab for which they are in class three days/week. On their three off days, they work on a research project lead by one of our scientists or a scientist from the Ohio Division of Wildlife, Ohio EPA, or US Geological Survey. They receive credit for the course and the research experience, and their tuition and room and meals fees are fully paid by the endowments. Through 2009, 52 students have participated in the program and received scholarships valued at more than \$167,000.