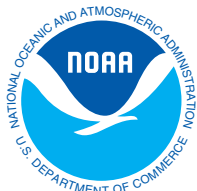


2004-2005 Progress Report

# Ohio Sea Grant

College Program

education    outreach    research



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*For more information, contact the Columbus Office.*

**Publication OHSU-TB-079**



# OHIO SEA GRANT COLLEGE PROGRAM PROGRESS REPORT 2004-2005

Jeffrey M. Reutter, Ph.D., Director

## Program Highlights—Grant No. NA16RG2252

This has been a great year for the program with some exciting research collaborations, development of new strategic and implementation plans, and a major milestone in our endowments.

**Program Assessment Team (PAT) Review.** We were reviewed by a team of experts from the National Sea Grant College Program from 21-25 August 2005. Dr. Jerry Schubel, Chair of the National Sea Grant Review Panel and President of the Aquarium of the Pacific, and Dr. Frank Kudrna, Member of the National Sea Grant Review Panel and President of Kudrna and Associates, were the chairs of the PAT. The rest of the team consisted of: Dr. William Frost, Program Leader, Natural Resources, University of California; Dr. Robert Stickney, Director of the Texas Sea Grant College Program; Dr. William Stubblefield, Retired Admiral of NOAA Corp; Dr. Keith Criddle, a member of the National Research Council and an observer on the PAT; Jonathan Eigen, an ex-officio member of the PAT and the Ohio Sea Grant Program Officer within the National Sea Grant College Program; Jennifer Greenamoyer, an observer and Executive Director of the Sea Grant Association; and Jamie Krauk, Communications Director of the National Sea Grant College Program and an ex-officio member of the PAT. We are rated in 4 major categories and 14 subcategories. "Organizing and Managing the Program" receives 20% of the weight; "Connecting with Users" receives 20%, "Effective and Aggressive Long-Range Planning" receives 10%, and "Producing Significant Results" receives 50%. In each of the subcategories we can receive a grade of "Needs Improvement" (we got none of these), "Meets Benchmark" (we got none of these), "Exceeds Benchmark" (we got 2 of these in the planning area), or "Highest Performance" (we got 12 of these). The team was very impressed with the expertise, involvement, understanding, dedication, and commitment of everyone they met.

**Strategic and Implementation Plans.** In 2005 we completed a new Strategic Plan for the period 2005-10 and a new Implementation Plan for 2005-07. These plans are based on Sea Grant's 11 Thematic Areas, NOAA's Strategic Plan, and the nine priorities of the Great Lakes Governors.

**Enrollment at Stone Laboratory.** During the summer of 2005, a total of 189 students from 17 colleges and universities and 36 high schools took college courses at Stone Laboratory. Since 1990, students from 99 colleges and universities (47 in state and 52 out of state) and 341 high schools (330 in state and 11 out of state) have taken college courses at Stone Laboratory, and since 2000, students from 55 colleges and universities (30 in state and 25 out of state) and 166 high schools (163 in state and 3 out of state) have taken courses there. With the assistance of the Friends of Stone Laboratory (FOSL) we were able to award 40 scholarships totaling \$18,901 in 2005. The FOSL also received 35 applications and awarded seven scholarships to outstanding high school students at State Science Day sponsored by the Ohio Academy of Science. Finally, using funds from newly created research endowments, we

implemented a program of “Research Experiences for Undergraduates” in 2005 with 15 awards totaling \$49,006.

**Outreach at Stone Laboratory.** Our spring and fall aquatic workshop/field trip/conference program attracted 145 groups and 5,379 participants in 2004 and over 150 groups and 5,000 participants in 2005.

**Distance Learning.** In 2003, with support from US EPA, the OSU UNITS program, and Ohio Sea Grant, equipment was purchased and the Laboratory conference room was renovated to allow distance-learning broadcasts. The summer Guest Lecture series in 2003, 2004, and 2005 were broadcast to main campus and fish dissection laboratory exercises were broadcast to high schools around the state. Ohio Sea Grant hosted the Great Lakes Sea Grant Network Conference at Stone Lab in September 2004 and used our distance learning equipment to allow Paul Horvatin, US EPA, to speak to and interact with the group. In 2005, student presentations from our REU Program were broadcast from the Laboratory to the Columbus main campus.

**Supporting Diversity.** An experimental offering of one of our one-week courses for students in the Minority Research Initiative was very successful in 1998 and followed a successful offering for students from the Young Scholars Program in 1997. We enrolled two Young Scholars in 1999, but the program was unable to send any in 2000 due to funding difficulties. Four students from the Young Scholars Program enrolled in 2001, 1 during 2002, 9 in 2003, 9 in 2004, and 4 in 2005, while the Columbus Public Schools’ I Know I Can Program supported 14 students in 2001, 9 in 2002, 11 in 2003, 3 in 2004, and 5 in 2005.

**Research.** During 2004, 19 investigators and 47 students and technicians from 12 agencies and institutions worked on 19 projects at Stone Laboratory. During 2004-2005 Ohio Sea Grant supported 32 large, competitively funded projects, including 10 new projects. We also supported 25 development fund projects, including six new projects. These investigators came from 11 universities. During 2004-2005 Sea Grant scientists produced 53 publications, made 110 scientific presentations, and supported 54 students on their projects. In 2004, a group of Ohio Sea Grant scientists were awarded a \$1.4 million biocomplexity grant from the National Science Foundation.

**GOOS/IOOS/AIS.** The Sea Grant Association asked Dr. Reutter to Chair a Sea Grant Work Group for the Integrated Ocean Observing System composed of Sea Grant representatives from each of the Regional Associations in 2004. The Sea Grant Association also asked him to Co-Chair the AIS Theme Team in 2004. In 2005 we hosted an AIS Database Summit at Stone Laboratory.

**Equipment and Facilities at Stone Laboratory.** While Stone Laboratory is the oldest freshwater biological field station in the country and has served as Ohio’s Lake Erie laboratory since 1895, until 2002, we had never received federal funding to improve the Laboratory for the benefit of thousands of students and research scientists each year. Through the hard work and leadership of Senator Mike DeWine, Stone Laboratory received \$348,000 for equipment and facilities through NOAA. Most of the new equipment items arrived in

2003—30 new microscopes, 3 new vans for students and researchers, a new research vessel, monitoring equipment for our work on the “Dead Zone,” and much more. In 2004, new educational signage was installed at Stone Laboratory including a large walk-through educational kiosk/gazebo. In 2005 porches were renovated on the South Bass Island Lighthouse and the viewing tower at Cooke Castle was repaired. **Thank you Senator DeWine and NOAA!!** Ohio State University has also committed \$2.3 million and completed the planning and design phases to bring city water and sewer lines from the Village of Put-in-Bay to the Stone Laboratory Research Building and then across the bay to Gibraltar Island. This work should be completed in 2006.

**Communications, Web Site and Electronic Reports.** Our web site ([www.sg.ohio-state.edu](http://www.sg.ohio-state.edu)) was significantly improved in 2004 and 2005 to make it more useful to students, teachers, scientists, elected officials, and the general public, and to make it handicapped accessible. The site contains copies of *Twine Line*, many of our publications, information on courses and programs at Stone Laboratory, and summaries of all of our research projects. This site and our electronic reporting system for research projects were selected as “best management practices” by the National Sea Grant College Program. The site contains over 1000 pages of information. In 1999, the site had 258,165 hits. In 2000 it had over 571,756, in 2001 it had 988,631 hits, in 2002 it had 1,623,916 hits, in 2003 it had 1,526,882 hits, and in 2004 it had 1,173,646 hits with over 60,000 unique users in both 2003 and 2004. During 2005 and continuing into 2006 we have changed hosts and operating systems for our web site and are redeveloping the site so that it will be database driven. In 2004, Communications’ eight-part research review series won a national APEX award in writing.

**Creation of New Endowments.** We have created nine new endowments with a value of over \$700,000 since 2000. The total value of all of our endowments surpassed \$1 million in 2005.

### **Special Outreach Activities**

The past two years have been very productive for the Ohio Sea Grant College Program with a number of special outreach activities. The brief list below contains a few of the highlights. See Appendix E for a more complete list of accomplishments and activities.

- In February 2004 and 2005 we hosted the fifth and sixth Sea Grant/Stone Laboratory Winter Lecture Series in Columbus. In 2004 we also initiated a silent auction that generated over \$1,600 in donations and over \$4,000 in 2005.
- In September 2004 the FOSL hosted the Seventh Annual Stone Laboratory Open House with Ohio Sea Grant and the Lake Erie Commission. Over 1300 people (new record) attended the all-day event. The program was repeated in September 2005 with over 900 in attendance.
- In July 2004, Ohio Sea Grant hosted its 15<sup>th</sup> State Legislature/Congressional Day on Lake Erie. The all-day event attracted elected officials and decision makers from over 25 offices.
- In July 2004, Kelly Riesen was hired as our new Fisheries Extension Coordinator with special funding from the National Sea Grant College Program.

- In September 2004, we hosted the Great Lakes Sea Grant Network meeting at Stone Laboratory.
- On 10-11 August 2005, we co-hosted the third Put-in-Bay Legislative Day with Rep. Chris Redfern and Senator Randy Gardner. Over 40 elected officials attended.
- In October 2005 we hosted an Aquatic Invasive Species Database Summit at Stone Laboratory.
- In October 2005 we hosted the Biennial Meeting of the National Association of Marine Laboratories at Stone Laboratory.
- In 2004 and 2005 we continued to lead efforts and work collaboratively with the Lake Erie Marine Trades Association and the Ohio DNR on the creation of a Clean Marina Program for Ohio and a Clean Boater Program for Ohio. Ohio's first Clean Marinas and Boaters pledged in 2004 and the first nine marinas were certified as Clean Marinas on 19 October 2005.

### **Fellowships**

LeAnn Southward, received her MS Degree from The Ohio State University Department of Evolution, Ecology and Organismal Biology in December 2003 and began a Knauss fellowship on 1 February 2004. Gene Kin, is currently finishing his Ph.D. in the same department and began his fellowship year 1 February 2005. LeAnn worked for the US State Department specializing in Pacific fishing issues and is currently working for NOAA. Gene is spending his fellowship year on the staff of the House Science Committee.

### **Appointments—State, Regional, and National Leadership**

The following information on appointments is presented to demonstrate the program's impact and influence on state, regional, national, and international issues in science. Each of our Sea Grant District Extension Specialists and our communications coordinator hold leadership appointments within their communities, the state, and the University as do many of our Sea Grant researchers and educators. Dr. Reutter holds the following leadership positions: President of the National Association of Marine Laboratories (term complete 12/31/05), Co-Founder of the Lake Erie Millennium Network, Co-Chair of the Sea Grant AIS Theme Team, Co-Chair of the Sea Grant IOOS Work Group, Member of the National GOOS Steering Committee, Member of the Board of Directors of the Great Lakes Protection Fund (term completed in January 2005—originally appointed in 1992), Member of the Sea Grant Law Center Advisory Board, Member of the NURC NE and Great Lakes Center Advisory Board, Member of the Old Woman Creek NERR Advisory Board, Member of the Board of Directors of the Ohio Academy of Science, Member of the Lake Erie Protection Fund Grant Making Committee, Member of the National Federation of Regional Associations of IOOS, Member of the Great Lakes Observation System Steering Committee, and more.

### **The State of the Program**

From the information presented above, it should be clear that the Ohio Sea Grant College Program is in very good shape and continues to grow. As noted above, donations since 2000 have been the highest in the 110-year history of the programs. Furthermore, while state

support for our line item has been reduced in recent years, a new bill was introduced in the Legislature and passed in early 2005 creating a new “Fish Lake Erie” license plate. Proceeds from the sale of the plate are to come to the Ohio Sea Grant College Program. In 2005 we were successful in leading efforts to bring a COSEE to the Great Lakes.

### **Program Plans**

Some of our top action items for the next two years include:

- 1) Greatly increase our focus on external fund raising including projects to:
  - a. Raise funds to complete the renovation of Cooke’s Castle—\$2.8 mil.
  - b. Raise funds to renovate the Stone Laboratory Research Building—\$1 mil.
  - c. Raise funds to construct new faculty/research housing at Stone Laboratory—\$300,000.
  - d. Raise funds for research and scholarship endowments—\$1 million each.
- 2) Continue to lead efforts with GLERL to develop a Great Lakes Observation and Ecosystem Forecasting System as part of IOOS and GOOS including placement of a series of monitoring buoys around all of the Great Lakes.
- 3) Continue to lead efforts to strengthen and expand the Lake Erie at the Millennium Network and to use the model on the other Great Lakes.
- 4) Develop formal relationships between Ohio Sea Grant/Stone Laboratory and federal and state agencies.
- 5) Increasingly focus fund raising efforts on larger donations and the development of large endowments.
- 6) Begin selling a “Fish Lake Erie” license plate to support Sea Grant/Stone Lab.
- 7) Revise our web site and link all products to our databases and allow electronic submission and review of research proposals.
- 8) Continue to lead development and implementation of the new Great Lakes COSEE.

### **The Future**

While Lake Erie is clearly better than it was in 1969 when the Cuyahoga River burned, it is not clean enough, and we are concerned that the trend seems to be headed in the wrong direction. In the past three years Ohio Sea Grant has led efforts to understand the causes for the Lake Erie Dead Zone and the increase in phosphorous concentrations. We will continue to support research projects in this area and projects that maximize the value of this outstanding resource, but will also support projects that help us understand Lake processes to allow more informed resource management and projects to develop new technologies to clean up the problems of the past. We will continue to focus on the 3 E’s, education, the environment, and the economy, through a combination of research, education and outreach, in collaboration with the government, academia, and the private sector. Our strategy is to focus university expertise on real-world problems.

**Appendix A**

**Program Funding**



# Appendix A

## Program Funding (*all sources*): 2004 & 2005

### Federal Sea Grant Funding

\$1,064,200	NOAA	Omnibus 1 March 2004 (Grant# NA16RG2252)
50,000	NOAA	Geophysical data record verification (Shum; 10/2003--9/2005)
90,000	NOAA	Ohio Sea Grant College Program Fisheries Extension (Snyder; 5/2004--4/2006)
1,434,030	NSF	BE/CNH: Biocomplexity (Culver, Reutter, et al- 9/2004--2/2009)
38,000	NOAA	Knauss Fellow- Southward (2/2004--1/2005)
34,107	USFWS	Huron-Erie corridor system habitat; (Reutter; 8/11/2004--9/30/2005)
20,977	ODNR	Boater participation- Safety Survey. (Hushak 7/2004--6/2005)
75,000	ODNR	Ohio Clean Marinas Program. (Kelch 10/2004--6/2005)
25,000	LEPF	Clean boater program (Hushak 10/2003--11/2005)
18,307	NOAA	ANS Supplemental Funding - Lichtkoppler
16,716	NOAA	Ship time from NOAA
<b>\$2,866,337</b>		<b>Subtotal 2004</b>
\$1,059,200	NOAA	Omnibus 1 March 2005 (Grant # NA16RG2252)
\$4,725	NOAA	Aquatic Invasive Species Database Workshop (9/2005)
\$2,200	NOAA	Registration fees for Ohio Sea Grant 2005 PAT (8/2005)
\$40,000	NOAA	Knauss Fellow- Kim (2/2005--1/2006)
\$90,000	NOAA	Ohio Sea Grant College Program Fisheries Extension Yr. 2 (Snyder; 5/2004--4/2006)
\$90,700	NOAA	Add'l funding for Communications, Administration, Development
\$15,000	NOAA	AIS Theme Team (8/2005-7/2006)
\$19,105	NOAA	ANS Supplemental Funding - Lichtkoppler
\$44,454	NOAA	Ship time from NOAA
\$20,243	LEPF	Ohio Clean Boater Program (10/2005--6/2007)
<b>\$1,385,627</b>		<b>Subtotal 2005</b>
<b>\$4,251,964</b>		<b>Total Federal 2004-05</b>

### Matching Support from Universitie

\$596,372		2004 Sea Grant Omnibus
45,000		Ohio Sea Grant College Program Fisheries Extension (Snyder; 5/2004--4/2006)
14,455		Huron-Erie corridor system habitat; (Reutter; 8/11/2004--9/30/2005)
7,533		Boater participation- Safety Survey. Hushak (7/2004--6/2005)
11,091		Clean boater program Hushak (10/2003--11/2005)
9,553		ANS Supplemental Funding--Lichtkoppler
<b>\$684,004</b>		<b>Subtotal 2004</b>
\$579,836		2005 Sea Grant Omnibus
45,000		Ohio Sea Grant College Program Fisheries Extension Yr. 2 (Snyder; 5/2004--4/2006)
50,000		Add'l funding for Communications, Administration, Developme:
2,028		Ohio Clean Boater Program (10/2005--6/2007)
<b>\$676,864</b>		<b>Subtotal 2005</b>
<b>\$1,360,868</b>		<b>Total University Match 2004-05</b>

**State Line Item (1 July 2004 to 30 June 2006)**

FY05	\$257,694
FY06	231,925
<b>Total</b>	<b>\$489,619</b>

**Ohio State University Support (Operating Budgets)**

	FY05	FY06	2-Year Total
Sea Grant/CLEAR	\$183,255	188,193	\$371,448
Stone Laboratory	277,501	279,803	\$557,304
<b>Total</b>	<b>\$460,756</b>	<b>\$467,996</b>	<b>\$928,752</b>

**Private Sector Contributions**

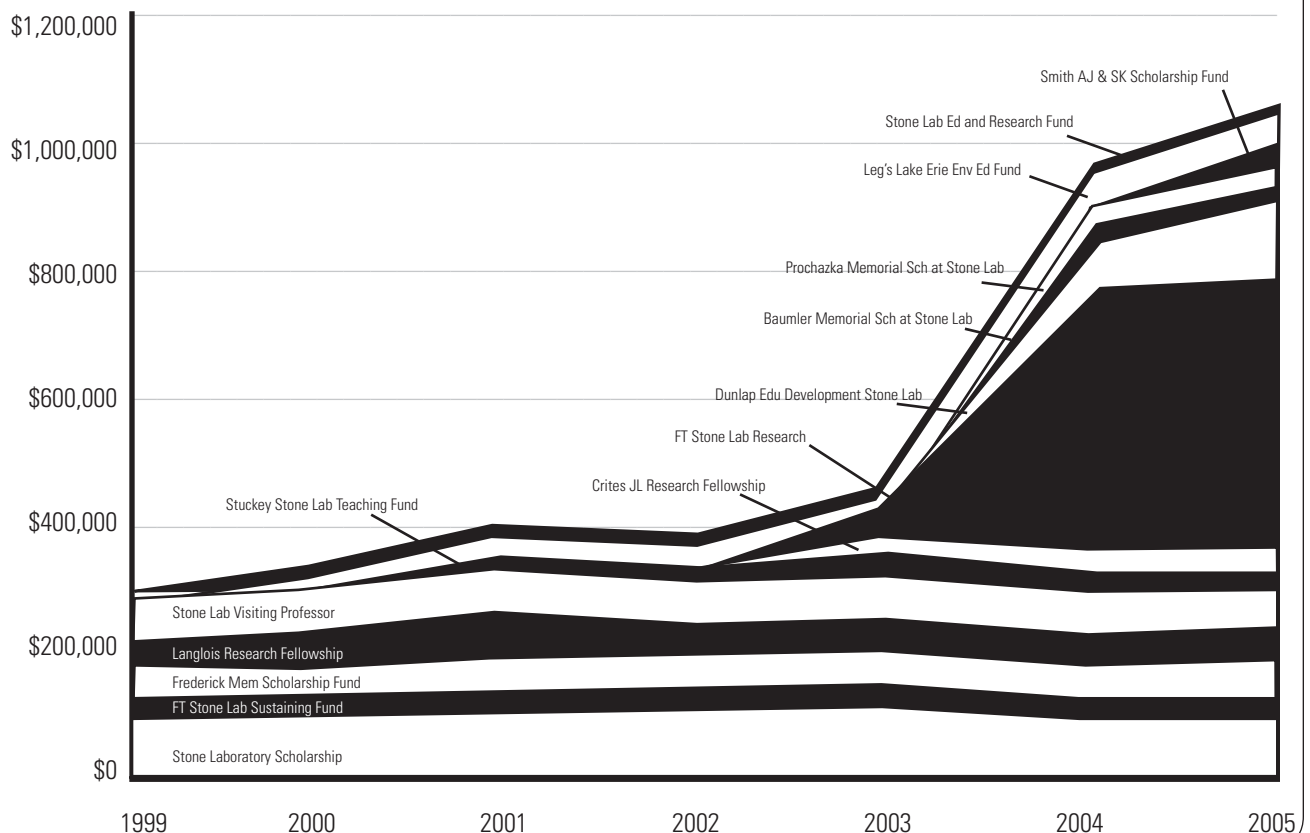
\$15,000	Approximate total for 15th State Legislature Day, July 16, 2004
10,000	Approximate value of booth space at boat shows and sport shows
1,259	Sandusky-Erie Cty Community Foundation- Legislature's Educ. Fund 2004
499	Sandusky-Erie Cty Community Foundation- Educ & Rsch Fund 2004
1,288	Sandusky-Erie Cty Community Foundation- Legislature's Educ. Fund 2005
504	Sandusky-Erie Cty Community Foundation- Educ & Rsch Fund 2005
67,479	Endowment Income 2004
43,017	Donations 2004
58,906	Endowment Income 2005
95,926	Donations 2005
<b>\$293,878</b>	<b>Total</b>

**Scholarships at Stone Laboratory**

14,254	36 Scholarships in 2004
67,713	57 Scholarships and REU's in 2005
<b>\$81,967</b>	<b>Total 2004-05</b>

## Endowment values (June 30 Equity Reports)

Fund	Description	1999	2000	2001	2002	2003	2004	2005
607012	<b>Stone Laboratory Scholarship</b> (Established Sept. 2, 1983)	\$99,731	\$104,029	\$112,524	\$115,349	\$117,373	\$99,255	\$99,991
607015	<b>FT Stone Lab Sustaining Fund</b> (Established Dec. 8, 1983)	\$43,766	\$44,361	\$45,046	\$46,016	\$46,601	\$47,651	\$49,870
602290	<b>Frederick Memorial Sch Fund</b> (Established April 4, 1986)	\$30,616	\$32,524	\$45,701	\$45,786	\$45,911	\$45,986	\$46,086
603930	<b>Langlois Research Fellowship</b> (Established Dec. 5, 1986)	\$33,716	\$39,148	\$46,638	\$34,896	\$40,146	\$40,271	\$40,296
607014	<b>Stone Lab Visiting Professor</b> (Established Sept. 7, 1987)	\$45,669	\$45,669	\$45,719	\$45,719	\$45,719	\$45,779	\$45,791
605406	<b>Sea Grant Endowment</b> (Established Feb. 6, 1987)	\$18,312	\$18,822	\$19,472	\$20,202	\$20,742	\$21,552	\$21,812
	<b>Leg's Lake Erie Env Ed Fund</b> (Established July 1, 1999)	—	\$9,508	\$33,330	\$29,262	\$33,468	\$35,308	\$35,308
	<b>Stone Lab Ed and Research Fund</b> (Established November 30, 1999)	—	\$14,431	\$13,358	\$11,533	\$13,075	\$13,787	\$13,787
607052	<b>Stuckey Stone Lab Teaching Fund</b> (Established Feb. 2, 1996)	—	—	\$16,455	\$16,905	\$17,325	\$18,100	\$18,405
601510	<b>Crites JL Research Fellowship</b> (Established Sept. 6, 2002)	—	—	—	—	\$30,815	\$33,757	\$36,307
602289	<b>FT Stone Lab Research</b> (Established Sept. 6, 2002)	—	—	—	—	\$67,901	\$458,555	\$459,384
641860	<b>Dunlap Edu Development Stone Lab</b> (Established Feb. 6, 2004)	—	—	—	—	—	\$54,692	\$130,343
600389	<b>Baumler Memorial Sch at Stone Lab</b> (Established March 5, 2004)	—	—	—	—	—	\$25,000	\$25,170
605928	<b>Prochazka Memorial Sch at Stone Lab</b> (Established March 5, 2004)	—	—	—	—	—	\$25,025	\$25,495
646690	<b>Smith AJ &amp; SK Scholarship Fund</b> (Established Nov. 5, 2004)	—	—	—	—	—	—	\$25,100
	<b>Total Equity</b>	<b>\$271,810</b>	<b>\$308,493</b>	<b>\$378,243</b>	<b>\$365,669</b>	<b>\$479,076</b>	<b>\$964,719</b>	<b>\$1,073,147</b>
	Percentage change	—	13.50%	22.61%	-3.32%	31.01%	101.37%	11.24%



# **Appendix B**

## **Institutions Involved**

**Table B-1: Institutions Involved 2004-2005**

**Table B-2: Home Institution of College Students 1986-2005**

**Table B-3: Home Institutions of Concurrent Enrollment (High School Students) 1990-2005**

## APPENDIX B

### TABLE B-1

#### COLLABORATING INSTITUTIONS—2004-2005

Institutions are involved with the Ohio Sea Grant College Program in many ways including:

1. Receiving funding from the program
2. Participating in our Great Lakes Aquatic Ecosystem Research Consortium
3. Conducting research at Ohio Sea Grant's Lake Erie Laboratory, Stone Laboratory
4. Teaching at Stone Laboratory
5. Sending students to Stone Laboratory for courses (Tables B-2 and B-3)

#### **Institutions Receiving Funding from Ohio Sea Grant**

Bowling Green State University  
Cleveland State University  
Cornell University  
Heidelberg College  
Kent State University  
Miami University  
Ohio State University  
University of Akron  
University of Cincinnati  
University of Toledo  
University of Windsor

#### **Participants in the Great Lakes Aquatic Ecosystem Research Consortium**

Bowling Green State University  
Case Western Reserve University  
Cleveland State University  
Heidelberg College  
John Carroll University  
Kent State University  
Miami University  
Mount Union College  
Ohio State University  
Ohio University  
University of Toledo  
Wright State University

### **Teaching at Stone Laboratory—2004-2005**

Baldwin Wallace College  
Bowling Green State University  
International Joint Commission  
Limno-Tech, Inc.  
Ohio State University  
Otterbein College  
University of Akron  
University of Michigan  
University of Toledo  
Utica College of Syracuse University  
Wittenberg University

### **Conducting Research at our Lake Erie Laboratory, Stone Laboratory—2004-2005**

Bowling Green State University  
Cornell University  
Heidelberg College  
Kent State University  
Miami University  
Niagara University  
Northern Illinois University  
Ohio State University  
University of Toledo  
University of Windsor  
USDA  
Wittenberg University

### **Partners on the Coastal Training Program**

Ohio Coastal Management Program  
Ohio Sea Grant College Program  
Old Woman Creek NERR (Lead Program)

### **Partners on the Coastal Research Advisory Group**

Lake Erie Office (Lake Erie Protection Fund)  
Ohio Coastal Management Program  
Ohio Sea Grant College Program  
Old Woman Creek NERR

### **Partners on the Ohio Clean Marina Program**

Lake Erie Marine Trades Association  
Ohio Coastal Management Program  
Ohio Division of Soil and Water Conservation  
Ohio Division of Watercraft  
Ohio Environmental Protection Agency  
Ohio Sea Grant College Program (Lead Program)  
Ohio State University Extension  
US Coast Guard

### **Partners on the Ohio Clean Boater Program**

Lake Erie Marine Trades Association  
Ohio Coastal Management Program  
Ohio Division of Soil and Water Conservation  
Ohio Division of Watercraft  
Ohio Lake Erie Commission  
Ohio Sea Grant College Program (Lead Program)

### **Partners on the Ohio Sea Grant Fish Extension Program**

Great Lakes Fishery Commission  
Great Lakes Sport Fishing Council  
Lake Erie Charter Boat Association  
Lake Erie Nature and Science Center  
Ohio Division of Wildlife  
Ohio Sea Grant College Program (Lead Program)  
Ohio State University Extension  
Recreational Boating and Fishing Foundation

### **Partners on Lake Erie Millennium Network (Co-Leaders)**

Environment Canada  
Ohio Sea Grant College Program and Stone Laboratory  
University of Windsor  
US EPA

TABLE B-2: Home Institutions of College-Level Students • 1986-2005

YEAR	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05
Percentage of Non-OSU students	23.3	29.2	19.7	7.9	19.6	22.5	33.1	19.2	28.7	20.5	12.7	14.3	19.3	16.7	27.0	15.4	21.4	12.4	15.2	22.5
<b>INSTATE</b>																				
Ashland Univ					1				2	1	1			1	1	2			1	2
Baldwin-Wallace College		2			1		1		1		1	1			2	1	1	1	1	9
Bluffton College					1		1													
<b>*Bowling Green State Univ</b>		2	1		2	1	2	3	2	2	4	1	3	6	4	<sup>1</sup> 2	3	<sup>2</sup> 1	<sup>1</sup> 0	4
Capital Univ							1										1	1	1	1
Case Western Reserve Univ				1			1		1											
Cedarville College							1													
<b>*Cincinnati StateTech&amp;Comm Coll</b>												1	1	1						
<b>*Cleveland State Univ</b>		2	1	1			2		2				1	2	1					
College of Mount St. Joseph										1										
College of Wooster	1				1									1					1	1
Columbus Coll Art & Design							1													
<b>*Columbus State Comm College</b>								1							2	1				
<b>*Cuyahoga Community Coll</b>					1	2	3	1	3		1				2		1			
Defiance College												1								
Denison University																	1			1
Heidelberg College		2					1					1			1			<sup>1</sup> 0		
<b>*Hocking Tech College</b>	1								1					1						
John Carroll Univ		1			1	2	1							1	1					1
<b>*Kent State Univ</b>		2			2	3	3		1	1		1	4		2		4	1	1	2
Lake Erie College								1	1											
<b>*Lakeland Community College</b>								1	1											
Malone College																	1			
<b>*Miami University</b>	3	2	7	1	4	7	6	6	3	10	3	2		1	4	1	1			3
Mt. Vernon Nazarene College	1																			1
<b>*North Central Tech College</b>					1	1														
Oberlin College					1															
Ohio Northern Univ									1						2	1	1		<sup>1</sup> 0	
<b>*Ohio State University</b>	33	51	49	58	74	77	89	122	107	101	<sup>1</sup> 109	<sup>1</sup> 113	113	125	89	109	<sup>2</sup> 99	<sup>1</sup> 99	83	<sup>7</sup> 100
Ohio University		1	1	1	1	1	4	2	2	3			1		2	1	1			
Ohio Wesleyan Univ				1	1					1		1	1				1			
Otterbein College		1					1				1	1		1			2	1	1	
<b>*Owens Community College</b>																				1
Union Institute																				1
<b>*Univ of Akron</b>					1			1	1		1	1	1	1		1				
<b>*Univ of Cincinnati</b>	1		1				1	1	1			1			1					
Univ of Dayton																	1			
<b>*Univ of Findlay</b>							1						2		3	1	1			
<b>*Univ of Toledo</b>		2			1	5			2	1				2	2			1		1
Urbana Univ							1													
Ursuline College								1												
Walsh Univ																				1
Wilmington College									1				1							
Wittenberg Univ	1				1			1	1	1		1	2		1	1		2	1	
<b>*Wright State Univ</b>						1			4	3	1	1	3	2	3	1	1			
Xavier University												1		1						
<b>*Youngstown State Univ</b>	2		1		1	2	2	2	1			1								

Superscript = number of noncredit workshop participants enrolled in credit courses; this number is NOT included in totals

\* = state-assisted institution of Ohio





**TABLE B-2: Home Institutions of College-Level Students • 1986-2005**

YEAR	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05
OUT OF STATE																				
Washington Univ, MO														1						
West Virginia Univ, WV								1												
<b>Tot # of different out-of-state coll/yr</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>3</b>	<b>6</b>	<b>9</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>4</b>	<b>2</b>	<b>6</b>
<b>Tot # of different in-state coll/yr</b>	<b>8</b>	<b>11</b>	<b>7</b>	<b>6</b>	<b>14</b>	<b>12</b>	<b>22</b>	<b>14</b>	<b>21</b>	<b>11</b>	<b>9</b>	<b>16</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>13</b>	<b>17</b>	<b>8</b>	<b>13</b>	<b>11</b>
<b>TOTAL # ALL coll/yr</b>	<b>8</b>	<b>15</b>	<b>7</b>	<b>6</b>	<b>14</b>	<b>16</b>	<b>25</b>	<b>20</b>	<b>30</b>	<b>14</b>	<b>12</b>	<b>19</b>	<b>19</b>	<b>18</b>	<b>19</b>	<b>18</b>	<b>22</b>	<b>12</b>	<b>15</b>	<b>17</b>
<b>Cumulative # ALL Colleges</b>	<b>8</b>	<b>21</b>	<b>21</b>	<b>23</b>	<b>27</b>	<b>34</b>	<b>41</b>	<b>49</b>	<b>57</b>	<b>60</b>	<b>61</b>	<b>65</b>	<b>70</b>	<b>74</b>	<b>76</b>	<b>80</b>	<b>88</b>	<b>92</b>	<b>97</b>	<b>102</b>









**TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students • 1990-2005**

<u>YEAR</u>	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05
Mapleton HS, Ashland	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Maplewood Jr/Sr HS, Courtland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Marburn Academy, Columbus	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Margaretta HS, Castalia	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-
Marion L Steele HS, Amherst	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Marion Catholic HS, Marion	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-
Marion-Franklin HS, Columbus	-	-	-	-	-	1	5	2	1	2	1	3	-	1	-	1
Marlington HS, Alliance	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Marysville HS, Marysville	1	-	1	-	-	-	1	-	-	-	-	-	-	1	-	-
Maumee HS, Maumee	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
Maumee Val Country Day HS, Toledo	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
Mayfield HS, Mayfield	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
McAuley HS, Cincinnati	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
McKinley HS, Canton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Meadowdale HS, Dayton	-	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-
Medina HS, Medina	-	-	-	1	1	-	-	-	-	-	1	-	1	-	-	-
Mentor HS, Mentor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Miami Trace HS, Washington CH	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
Miamisburg HS, Miamisburg	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Mifflin HS, Columbus	-	-	-	2	-	2	-	1	-	2	-	-	-	-	-	-
Milford Sr HS, Milford	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-
Miller City HS, Miller City	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Minerva HS, Minerva	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Minster HS, Minster	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	1
Monroeville HS, Monroeville	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-
•Montoursville Area HS, Montoursville PA	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
•Mount Lebanon Senior HS, Pittsburgh PA	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Mount Vernon HS, Mt. Vernon	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Morgan HS, McConnelsville	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Napoleon HS, Napoleon	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
New Albany HS, New Albany	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
New London HS, New London	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
New Philadelphia HS, New Philadelphia	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Newark HS, Newark	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-
Newark Catholic HS, Newark	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-
Newton Falls HS, Newton Falls	2	-	1	4	1	3	6	2	-	1	-	-	-	-	1	-
North HS, Akron	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
North Olmsted HS, North Olmstead	-	-	2	2	-	-	-	-	-	-	-	1	-	-	-	1
North Ridgeville HS, N Ridgeville	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
North Royalton HS, North Royalton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Northeastern HS, Springfield	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-
Northland HS, Columbus	2	-	-	-	-	1	1	2	2	-	-	-	2	2	-	-
Northmont HS, Clayton	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northridge HS, Johnstown	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Norwood HS, Norwood	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-





**TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students • 1990-2005**

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05
St Charles Preparatory HS, Columbus	-	-	-	-	-	-	-	1	1	1	2	1	-	-	3	-
St Clairsville HS, St Clairsville	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
St Francis De Sales HS, Columbus	-	-	-	-	1	-	-	-	1	1	-	-	-	2	3	-
St Ignatius HS, Cleveland	-	1	2	-	-	-	-	-	-	-	1	-	1	1	1	-
St John's Jesuit HS, Toledo	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-
St Joseph Academy HS, Cleveland	-	-	2	-	-	1	-	-	1	-	-	-	-	-	-	-
St Joseph Central HS, Ironton	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
St Joseph HS, Fremont	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
St Mary Central Catholic HS, Sandusky	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
St Peter HS, Mansfield	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
St Thomas Aquinas HS, Louisville	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
St Ursula Academy, Toledo	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Start HS, Toledo	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Stebbins HS, Dayton	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Streetsboro HS, Streetsboro	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stow-Monroe Falls HS, Stow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Strongsville HS, Strongsville	1	-	-	1	2	-	-	-	-	-	-	-	-	1	-	-
Swanton HS, Swanton	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sylvania Northview HS, Sylvania	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Sylvania Southview HS, Sylvania	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Taft HS, Cincinnati	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Talawanda HS, Oxford	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Tallmadge HS, Tallmadge	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Thomas Worthington HS, Worthington	-	-	-	-	-	-	2	-	-	-	-	-	1	-	1	-
Tinora HS, Defiance	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Tippecanoe HS, Tipp City	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Toronto HS, Toronto	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
•Town of Webb Schools, Old Forge NY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Tri-Valley HS, Dresden	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Triway HS, Wooster	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
Turpin HS, Cincinnati	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Union Local HS, Belmont	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
United HS, Hanoverton	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-
Upper Arlington HS, Upper Arlington	1	1	1	2	-	2	1	3	-	4	2	1	4	2	1	-
Upper Sandusky HS, Upper Sandusky	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
Urbana HS, Urbana	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ursuline Academy HS, Cincinnati	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-
Ursuline HS, Youngstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Valley Forge HS, Parma Heights	-	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-
Valley View HS, Germantown	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-
•Vanguard HS, Ocala FL	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Van Wert HS, Van Wert	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Vermilion HS, Vermilion	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinton County HS, McArthur	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Wadsworth HS, Wadsworth	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-

**TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students • 1990-2005**

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05
Walnut Ridge HS, Columbus	-	-	-	-	1	-	-	1	-	1	-	-	-	-	-	-
Wapakoneta HS, Wapakoneta	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Watkins Memorial HS, Pataskala	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
Wauseon HS, Wauseon	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Waverly HS, Waverly	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Waynedale HS, Apple Creek	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Wellington HS, Columbus	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Branch HS, Beloit	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-
West Carrollton HS, West Carrollton	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
West Geauga HS, Chesterland	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-
West HS, Columbus	-	-	2	-	7	-	1	-	-	2	-	2	-	1	-	1
West Holmes HS, Millersburg	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Liberty-Salem Jr/Sr HS, West Liberty	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Western Reserve HS, Collins	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Westerville-North HS, Westerville	1	-	1	1	2	2	-	-	-	-	1	-	-	-	-	-
Westerville-South HS, Westerville	-	-	-	-	1	1	-	2	-	-	2	-	1	2	1	1
Westfall HS, Williamsport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Westlake HS, Westlake	-	-	-	2	-	-	-	1	-	1	-	1	-	-	-	-
Westland HS, Galloway	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Whetstone HS, Columbus	-	-	-	1	-	-	1	6	3	1	1	3	-	-	1	-
Wm Fisher Catholic HS, Lancaster	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	1
Wm Henry Harrison HS, Harrison	1	1	1	1	1	1	-	-	-	2	-	-	-	-	-	-
Wm Mason HS, Mason	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-
Willoughby South HS, Willoughby	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Winton Woods HS, Cincinnati	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Woodmore HS, Elmore	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Wooster HS, Wooster	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Worthington Kilbourne HS, Columbus	-	-	1	1	-	-	-	-	1	-	-	-	2	-	-	-
TOTAL # of High Schools/year	19	47	57	61	50	44	42	53	60	52	60	40	51	40	45	36
Cumulative # of All High Schools	19	61	101	140	163	179	198	224	248	262	278	289	302	312	326	341
Cumulative # of Out-of-State Schools	-	-	2	3	5	-	6	7	-	8	-	9	-	-	10	11

• = Out-of-State

<sup>1</sup> = Not counted as out-of-state school as student was a home-schooled Ohio resident (and paid in-state tuition) who had her records housed at this school.

# **Appendix C**

## **Project Statistics**

**Table C-1: Ohio Sea Grant Funded Projects Initiated  
from 1-1-04 to 12-31-05**

**Table C-2: Ohio Sea Grant Development Fund Projects  
Initiated from 1-1-04 to 12-31-05**

**Publications from 2004-05**

**Presentations from 2004-05**

## Table C-1. Ohio Sea Grant Funded Project Information: Non-Development Fund Projects Initiated 1-1-04 to 12-31-05\*

\*Does not include continuing communication, extension, and management projects

Project Number	Project Title	Initiation	Principal Investigator
E/I-17	Sea Grant Federal Fellows Program - Southward	2/1/2004	Jeffrey Reutter
R/PS-34	Evaluation of Dewatering Strategies for PCB-Contaminated Sediments in the Great Lakes Region	3/1/2004	Patrick Fox
R/ME-30	The Influence of Water Quality and Lake Amenities on the Demand for Residential Development around Lake Erie	3/1/2004	Elena Irwin
R/LR-7	Walleye And Yellow Perch Stock Structure In The Great Lakes: A High-Resolution DNA Data Base For Fishery Management	3/1/2004	Carol Stepien
A/EP-9	Fisheries Extension Enhancement: Ohio Sea Grant Fisheries Extension Agent	5/1/2004	Frederick Snyder
R/PS-36	Mercury in the Water and Phytoplankton of Western Lake Erie	3/1/2005	W. Lyons
R/PS-35	Reduction of Agricultural Pesticides in the Sediments of a Coastal Great Lakes Wetland	3/1/2005	Yu-Ping Chin
R/LR-8	Employing Trace Element Contents of Otoliths for Fish Stock Discrimination and Habitat Use	3/1/2005	John Farver
R/ER-67	Field and laboratory tests of the Microbial Shunt Hypothesis of Phosphorus Availability in the Great Lakes	3/1/2005	Robert Heath
E/TER-3	Great Lakes Teacher Education: High Tech/High Touch Learning	3/1/2005	Rosanne Fortner

**Total Number of Non-Development Fund Projects: 10**

## Table C-2. Ohio Sea Grant Funded Project Information: Development Fund Projects Initiated 1-1-04 to 12-31-05

Project Number	Project Title	Initiation	Principal
R/ER-69-PD	Lake Erie Watersnake Recovery Plan Implementation	3/1/2004	Richard King
R/A-18-PD	Relationship Between Lake Erie Walleye Gamete Viability And Concentrations Of Vitamins B1 In Eggs And Sperm	3/1/2004	Konrad Dabrowski
R/EM-26-PD	Preliminary Data to Evaluate the Use of Precursor 16S rRNA as an Indicator of Viable Waterborne Pathogens in the Environment	4/1/2004	Daniel Oerther
R/A-19-PD	Effect of a fishmeal-free diet on the growth and PCB levels of freshwater shrimp in Ohio	5/15/2004	Donald McFeeters
A/EP-10-PD	International Leadership Development for Coastal Decision Makers	11/1/2004	Joseph Lucente
A/P-7-PD	Dike 14 Field Guide	4/1/2005	Walt Williams

**Total Number of Development Fund Projects:      6**

## Table C-3. Publications from Ohio Sea Grant Projects: 2004

### Scientific Publications (including published Abstracts)

Project Number	Initiation Date	Completion	Publication
A/EP-1	9/1/1978		Blaine, T.W., and F. R. Lichtkoppler. 2004. Willingness to pay for green space preservation: A comparison of Soil and Water Conservation District clientele and the general public using the contingent valuation method. <i>Journal of Soil and Water Conservation</i> 59 (5) 203-208.
E/OCF-1-PD	5/1/2000	10/30/2000	Matson, Timothy O., Roberta Muehlheim and James C. Spetz. 2004. Survey of Fishes, Amphibians, and Reptiles of the Conneaut Creek Drainage System, Ashtabula County, Ohio. <i>Kirtlandia</i> 54:132 March 2004. The Cleveland Museum of Natural History. Cleveland, Ohio.
E/TER-2	3/1/2002	2/28/2005	Sara White. 2004. Ballast blockade: Stopping aquatic immigrants. <i>Science Activities</i> 40(1). R.W. Fortner [Ed]. 2004. Special issue on marine education. <i>Science Activities</i> 40(1). Arvai, J. L., Campbell, V. E. A., Baird, A., & Rivers, L. 2004. Teaching students to make better decisions about the environment: Lessons from the decision sciences. <i>Journal of Environmental Education</i> , 36, 33-44.
M/P-1	9/1/1978		Kellogg, W.A., K. O'Brien, C. Robey, M.J.S. Tevesz, D. BaracsKay, L. Feix, C. Kasselmann, J.M. Reutter, and G. Wright. 2004. The current coastal resource management training market in Ohio's Lake Erie Basin. <i>Coastal Management</i> 33: 271-291.
R/CE-5	3/1/2000	2/28/2003	Kuo, C., C. Shum, A. Braun, and J. Mitrovica 2004. Vertical crustal motion inferred by satellite altimetry and tide gauge data in Fennoscandia. <i>Geophys. Res. Lett.</i> , Vol. 31, L01608, doi:10.1029/2003GL019106.
R/CE-9-PD	10/1/2002	2/28/2003	Calment, S., K. Cheng, G. Jan, C. Kuo, C. Shum, Y. Yi, V. Ballu and M. Bouin 2004. Comparison of sea surface height derived from satellite altimetry and from ocean bottom pressure gauges. <i>The SW Pacific MOTEVAS Project, Marine Geodesy</i> , 27(3-4), Special Issue on Jason-1 Calibration/Validation Part III, 597-613.
R/ER-49-PD	6/1/1998	2/28/1999	McKay, R.M.L., G.S. Bullerjahn, D. Porta, E.T. Brown, R.M. Sherrell, T.M. Smutka, R.W. Sterner, M.R. Twiss and S.W. Wilhelm. 2004. Consideration of the bioavailability of iron in the North American Great Lakes: Development of novel approaches toward understanding iron biogeochemistry. <i>Aquatic Ecosystem Health and Management</i> . 7(4): 475-490. doi: 10.1080/14634980490479697.

## Scientific Publications (including published Abstracts)

Project Number	Initiation Date	Completion	Publication
R/ER-60	3/1/2002	2/28/2004	<p>Heath, RT and M. Munawar. 2004. Bacterial productivity in Lake Superior, 200: Implication for food web efficiencies in oligotrophic freshwater ecosystems. <i>Aquatic. Ecosyst Health and Management</i> 7(4): 465 - 474.</p> <p>Shoup, D. E., R. E. Carlson, and R. T. Heath. 2004. Diel activity levels of centrarchid fishes in a small Ohio lake. <i>Trans. Am. Fisheries Soc.</i> 133: 1264 – 1269.</p> <p>M. Munawar and R. T. Heath. 2004. Emerging Issues in Lake Superior Research. <i>Aquatic. Ecosyst. Health and Management</i> 7(4): 433 - 434.</p> <p>Heath, R. T. 2004. Microbial Turnover of Organic Phosphorus in Aquatic Systems. Chapter 9 in: Turner, B. L., E. Frossard, and D. S. Baldwin, eds., "Organic Phosphorus in the Environment", CABI Publ., Oxfordshire, UK, pp 185 – 204.</p>
R/LR-4	3/1/1998	8/31/2003	<p>Carol A. Stepien, Clifford D. Taylor, and Donald Einhouse 2004. An analysis of Genetic risk to a native spawning stock of walleye <i>Sander vitreus</i> due to stocking in Cattaraugus Creek. In <i>Proceedings of Percis III, the 3rd International Symposium on Percid Fishes</i>, T.P. Barry and J.A. Malison, eds. Madison: University of Wisconsin Sea Grant Institute. 93-94.</p> <p>Stepien, C.A. and E. Roseman. 2004. Percid ecology: Current status and future research needs. In <i>Proceedings of Percis III, the 3rd International Symposium on Percid Fishes</i>, T.P. Barry and J.A. Malison, eds. University of Wisconsin Sea Grant Institute, Madison, WI . 5-6.</p>
R/LR-7	3/1/2004	2/28/2007	<p>Stepien, C.A., C.D. Taylor, and D.W. Einhouse. 2004. An analysis of genetic risk to a native spawning stock of walleye <i>Sander vitreus</i> (<i>Stizostedion vitreum</i>) due to stocking in Cattaraugus Creek. In <i>Proceedings of Percis III, the 3rd International Symposium on Percid Fishes</i>, T.P. Barry and J.A. Malison, eds. University of Wisconsin Sea Grant Institute, Madison, WI. 93-94.</p> <p>Ford, A.M. and C.A. Stepien. 2004. Genetic variation and spawning population structure in Lake Erie yellow perch, <i>Perca flavescens</i>: A comparison with a Maine population. In <i>Proceedings of Percis III, the 3rd International Symposium on Percid Fishes</i>, T.P. Barry and J.A. Malison, eds. University of Wisconsin Sea Grant Institute, Madison, WI. 131-2.</p> <p>Stepien, C.A. and E. Roseman. 2004. Percid ecology: Current status and future research needs. In <i>Proceedings of Percis III, the 3rd International Symposium on Percid Fishes</i>, T.P. Barry and J.A. Malison, eds. University of Wisconsin Sea Grant Institute, Madison, WI . 5-6.</p>
R/ME-25	3/1/2000	2/28/2002	<p>Carrion-Flores, Carmen and Elena G. Irwin. 2004. Determinants of Residential Land Use Conversion and Sprawl at the Rural-Urban Fringe. <i>American Journal of Agricultural Economics</i>, 86(4): 889-904.</p>

## Scientific Publications (including published Abstracts)

Project Number	Initiation Date	Completion	Publication
R/NIS-1	6/1/1995	5/31/1998	Stepien, C.A., A. M. Ford, A. K. Dillon-Klika, and M. A. Tumeo 2004. Risk analysis and genetic identity of the Eurasian source population for the ruffe ( <i>Gymnocephalus cernuus</i> ) invasion in the Great Lakes. In Proceedings of Percis III, the 3rd International Symposium on Percid Fishes, T.P. Barry and J.A. Malison, eds. Madison: University of Wisconsin Sea Grant Institute.91-92.
R/NIS-5-PD	9/1/1997	12/31/1997	Stepien, C.A., A. M. Ford, A. K. Dillon-Klika, and M. A. Tumeo 2004. Risk analysis and genetic identity of the Eurasian source population for the ruffe ( <i>Gymnocephalus cernuus</i> ) invasion in the Great Lakes. In Proceedings of Percis III, the 3rd International Symposium on Percid Fishes, T.P. Barry and J.A. Malison, eds. Madison: University of Wisconsin Sea Grant Institute.91-92.
R/NIS-109-SG	9/1/1997	8/31/1998	Stepien, C.A., A. M. Ford, A. K. Dillon-Klika, and M. A. Tumeo 2004. Risk analysis and genetic identity of the Eurasian source population for the ruffe ( <i>Gymnocephalus cernuus</i> ) invasion in the Great Lakes. In Proceedings of Percis III, the 3rd International Symposium on Percid Fishes, T.P. Barry and J.A. Malison, eds. Madison: University of Wisconsin Sea Grant Institute.91-92.
R/PS-26	3/1/2000	2/28/2003	D. Chen; Z. He; L. K. Weavers; Y. Chin; H. W. Walker; P. G. Hatcher. 2004. Sonochemical Reactions of Dissolved Organic matter. Research on Chemical Intermediates:30 (7/8), 735-
R/PS-34	3/1/2004	2/28/2006	Fox, P. J., Lee, J. and Qiu, T. 2004. Discussion of 'A comparative study of suction-induced seepage consolidation versus centrifuge consolidation'. Geotechnical Testing Journal, 27(4), 416-417.
R/ZM-31-PD	4/1/2002	3/31/2003	Elderkin, C. L., J. A. Stoeckel, D. J. Berg, and P. L. 2004. Heritability of heat tolerance in zebra mussel veligers. Journal of Great Lakes Research 30: 360-366.

**Total Scientific Publications (including published Abstracts):**

21



## Reports, fact sheets

Project Number	Initiation Date	Completion	Publication
E/TER-2	3/1/2002	2/28/2005	Fortner, R.W. 2004. Beam Me Up! Videoconferences Extend Stone Lab Learning. Twine Line 26(1): 4.  Rosanne W. Fortner, Lisa M. Bircher, Sara White, Hongxia Duan, Paul Genzman, Becky Lippman, and Melissa Simons. 2004. Teacher Education at Stone Laboratory: Program description, literature setting, and impact on educators. Technical Report TB-076. Columbus: Ohio Sea Grant College Program. 42 pp.
M/P-1	9/1/1978		Reutter, J.M. 2004. Program summary for 2003. The Ohio State University. The Ohio Sea Grant Program. Twine Line 26(2): 5.
R/CE-5	3/1/2000	2/28/2003	Cheng, K. 2004. GPS buoy campaigns for vertical datum improvement and radar altimeter calibration. Ohio State University Geodetic Science and Surveying Report #470, January.  Cheng, K. 2004. Radar altimeter absolute calibration using GPS water level measurements. Ohio State University Geodetic Science and Surveying Report #469, January.
R/ER-66-PD	7/1/2003	9/30/2005	Krieger, K. A. 2004. Mayfly metric of the Lake Erie Quality Index: design of an efficient censusing program, data collection, and development of the metric. Final Rept. to Ohio Lake Erie Commission. 33 p.

**Total Reports, fact sheets:**

6

## Popular magazine, newsletter and newspaper articles

Project Number	Initiation Date	Completion	Publication
R/A-19-PD	5/15/2004	4/30/2005	Dickerson, K. 2004. Farmer happy with first shrimp crop. Zanesville Times Recorder, Sept. 24.  The Associated Press. 2004. Ohio shrimp farms can net jumbo results. The Cincinnati Enquirer, Sept. 24.  Bussa, R. 2004. Second Annual Shrimp Festival a Success. Portsmouth Community Common, Sept. 14.  Shiple, D. 2004. Shrimp farms in Madison County. Madison Press, Oct. 2.  Davis, R. 2004. Something's Fishy. Columbus Dispatch, Sept. 8.
R/ER-64-PD	5/1/2002	10/31/2003	King, R. B. 2004. The Lake Erie watersnake: a 23-Year perspective on microevolution, population status, and recovery planning. The Boreal Dip Net, Newsletter of the Canadian Amphibian and Reptile Conservation Network 8(1):6-7.

**Total Popular magazine, newsletter and newspaper articles:**

6

**In process; not published yet**

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion</b>	<b>Publication</b>
A/EP-5	3/1/2002	2/28/2003	D. Kuehn, F. Lichtkoppler and C. Pistis. 2004. The Great Lakes Charter Fishing Industry: 1973 to 2002. Accepted for publication in the March 2005 issue of 'Fisheries', the monthly news magazine of the American Fisheries Society.
R/MB-2	9/1/2002	8/31/2004	Abdulhadi A Al-Juhni, Karunakar Reddy Jaggari, Bi-min Zhang Newby 2004. Techniques for Incorporating Capsaicin into Silicone to Enhance Antifouling Performance of Silicone Coatings. Biofouling, accepted with major revision, currently under revision.
R/PS-34	3/1/2004	2/28/2006	Lee, J. and Fox, P. J. 2004. Efficiency of seepage consolidation for preparation of clay substrate for centrifuge testing. Geotechnical Testing Journal, accepted for publication.  Fox, P. J. 2004. Model for coupled large strain consolidation and contaminant transport. Journal of Geotechnical and Geoenvironmental Engineering, accepted for publication.  Fox, P. J., Lee, J. and Qiu, T. 2004. Model for large strain consolidation by centrifuge. International Journal of Geomechanics, ASCE, accepted for publication.

**Total In process; not published yet:**

## Table C-4. Publications from Ohio Sea Grant Projects: 2005

### Scientific Publications (including published Abstracts)

Project Number	Initiation Date	Completion	Publication
A/EP-1	9/1/1978		Kuehn, D., Lichtkoppler, F., and Pistis, C. 2005. The Great Lakes Charter Fishing Industry: 1973 to 2002. Fisheries 30 (3) 10-17.
R/MB-2	9/1/2002	8/31/2004	<p>QingWei Xu, Carlos A. Barrios, Teresa Cutright, Bi-min Zhang Newby. 2005. Assessment of Antifouling Effectiveness of Two NPAs by Attachment Study with Freshwater Bacteria. Journal of Environmental Science and Pollution Research (ESPR), September.</p> <p>Carlos A. Barrios, QingWei Xu, Teresa Cutright, Bi-min Zhang Newby. 2005. Incorporating Zosteric Acid into Silicone Coatings to Achieve its Slow Release while Reducing Fresh Water Bacterial Attachment. Colloids and Surfaces B: Biointerfaces, March 25.</p> <p>Qing Wei Xu, Carlos A. Barrios, Teresa Cutright, Bi-min Zhang Newby 2005. Toxicity Evaluation of Capsaicin and Zosteric Acid and their Potential Applications as Antifoulants. Environmental Toxicology, October.</p>
R/PS-26	3/1/2000	2/28/2003	Z. He, S. J. Traina, J. M. Bigham, L. K. Weavers. 2005. Sonolytic Release of Mercury from Aluminum Oxide. Environmental Science and Technology, 2005, 39(4), 1037-1044.

### Total Scientific Publications (including published Abstracts):

5

### Reports, fact sheets

Project Number	Initiation Date	Completion	Publication
M/P-1	9/1/1978		Reutter, J.M. 2005. 2004 Program summary.. The Ohio State University. Ohio Sea Grant Program. Twine Line 27 (1): 4-5.

### Total Reports, fact sheets:

1

## In process; not published yet

Project Number	Initiation Date	Completion	Publication
A/EP-1	9/1/1978		Blaine, T.W., F. R. Lichtkoppler, K.R. Jones and R.H. Zondag. 2005. An assessment of household willingness to pay for curbside recycling: A comparison of payment card and referendum approaches. <i>Journal of Environmental Management</i> . Accepted 4 January 2005.  Blaine, T.W., F.R. Lichtkoppler, K.R. Jones, and R.H. Zondag. 2005. An Assessment of Household Willingness to Pay for Curbside Recycling: A Comparison of Payment Card and Referendum Approaches. Accepted for publication in the <i>Journal of Environmental Management</i> in 2005.
R/ER-52-PD	7/1/1999	2/28/2002	Twiss, M.R., S.P. Gouvêa, R.A. Bourbonniere, R.M.L. McKay and S.W. Wilhelm. 2005. Field investigations of trace metal effects on Lake Erie phytoplankton productivity. <i>Journal of Great Lakes Research</i> . In press.
R/LR-5	3/1/2001	2/28/2004	C.A. Stepien and R.M. Strange. 2005. Genetic diversity and divergence patterns of smallmouth bass <i>Micropterus dolomieu</i> across the Laurentian Great Lakes, based on nuclear microsatellite and mitochondrial DNA sequence data. (in prep).  W.C. Borden and C.A. Stepien. 2005. Population genetic structure of smallmouth bass, <i>Micropterus dolomieu</i> Lacepède, in Lake Erie using mitochondrial DNA sequences and nuclear DNA microsatellites. (in review, <i>Journal of Great Lakes Research</i> , submitted July 2005).
R/LR-7	3/1/2004	2/28/2007	Strange, Rex M. and Carol A. Stepien. 2005. DNA Identification of Yellow Perch Fillets from a Fish Fry: Is the Fish on Your Menu Local?. <i>Journal of Great Lakes Research</i> (In Review). Submitted April 2005.
R/LR-9-PD			Krebs, R. A. and L. J. Rundo. 2005. Diversity of Unionidae in the Rocky River, Ohio. <i>Journal of Freshwater Ecology</i> (in press).
<b>Total In process; not published yet:</b>			<b>7</b>

## Web site

Project Number	Initiation Date	Completion	Publication
A/EP-9	5/1/2004	4/30/2006	Riesen, K. 2005. Fisheries Extension Enhancement. Power Point Presentation. Ohio Sea Grant College Program, The Ohio State University.  Riesen, K. 2005. Women: Sport Fishing's Untapped Market. Power Point Presentation. Ohio Sea Grant College Program, The Ohio State University.
<b>Total Web site:</b>			<b>2</b>

## Table C-5. Presentations from Ohio Sea Grant Projects: 2004

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion</b>	<b>Presentation</b>
A/EP-1	9/1/1978		<p>F. Lichtkoppler. 2004. The 2002 Great Lakes Charter Captains Survey. Presented at the International Association of Great Lakes Research 2004 Conference, May 24-28 at the University of Waterloo, Waterloo, Ontario, Canada.</p> <p>Kelch, D.O., F. R. Lichtkoppler and B.L. Sohngen. 2004. Evaluation of Ohio's Lake Erie Tributary Steelhead Anglers, 2002-2003. Presented by Lichtkoppler at the International Association of Great Lakes Research 2004 Conference, May 24-28 at the University of Waterloo, Waterloo, Ontario, Canada.</p> <p>F. Snyder. 2004. Strengthening Ohio's Charter Fishing Industry Through Extension Education. Presented at the symposium, 'Socio-Economics and Extension: Empowering People in Fisheries Conservation' at the American Fisheries Society (AFS) 134th Annual Meeting, August 22-26, 2004 in Madison, WI.</p> <p>Kelch, D.O., F. R. Lichtkoppler and B.L. Sohngen. 2004. Socio-Economic Evaluation of Ohio's Lake Erie Tributary Steelhead Anglers, 2002-2003. Presented at the symposium, 'Socio-Economics and Extension: Empowering People in Fisheries Conservation' at the American Fisheries Society (AFS) 134th Annual Meeting, August 22-26, 2004 in Madison, WI.</p> <p>Snyder, F.L. 2004. Aquatic Invasive Species Impacts Upon the Lake Erie Sport Fishery. Presented at the 13th International Conference on Aquatic Invasive Species. 20-24 September 2004, Ennis, Ireland.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion</b>	<b>Presentation</b>
A/EP-4	3/1/2002	2/28/2006	

Lucente, J.E. 2004. Toledo Local Government Leadership Academy-Building Partnerships For Success In An Urban Setting. The Ohio State University Extension Urban Program Conversation. Columbus, Ohio, January 15.

Lucente, J. 2004. Local Government Leadership Training. West District Lead Programs In Community Development In-Service in Findlay, OH

J. Lucente. 2004. Leadership Development For Local Government Officials and Utilizing A Retrospective Pre-Post Test Methodology. Presented at the National Southern Community Development Association Conference in Tampa, Florida May 18-20.

J. Lucente. 2004. Establishing A Community Leadership Network To Improve Public Sector Decision Making. Presented at the National Southern Community Development Association Conference in Tampa, Florida May 18-20.

J. Lucente 2004. A Retrospective Evaluation of the Impact of Leadership Training on Participants. Poster session presented at the International Community Development Society Conference in Cleveland, Ohio May 18-21.

J. Lucente and D. Lacey. 2004. Evaluating Leadership Development for Public Officials Using Retrospective Pretest Methodology. Presented at the International Association of Leadership Educators Conference in Memphis, Tennessee July 15-17.

Lucente, J., Davis, G., and Lacey, D. 2004. Evaluating Impact of Extension Leadership Programming: A Three Year Study Using the Retrospective Pretest Methodology. National Mid-Western Educational Research Association Conference. Columbus, Ohio, October 13-16.

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion</b>	<b>Presentation</b>
A/EP-5	3/1/2002	2/28/2003	<p>F. Lichtkoppler, D. Kuehn and C. Pistis. 2004. The 2002 Great Lakes Charter Captains Survey. submitted to the International Association of Great Lakes Research 2004 Conference Abstract Committee Dec. 2003.</p> <p>Kelch, D.O., F. R. Lichtkoppler and B.L. Sohngen. 2004. Evaluation of Ohio's Lake Erie Tributary Steelhead Anglers, 2002-2003. Presented by Lichtkoppler at the International Association of Great Lakes Research 2004 Conference, May 24-28 at the University of Waterloo, Waterloo, Ontario, Canada.</p>
E/TER-2	3/1/2002	2/28/2005	<p>Lyndsey Manzo. 2004. Evaluating the use of a structured decision-making framework as a method of teaching about environmental issues. Presented at the first annual SNR Graduate Seminar. May.</p> <p>Rosanne Fortner, Joe Arvai and Jennifer Malinowski. 2004. Sea Grant Educators Using the Internet: Interactive web-based activities for learning and decision making. Great Lakes Sea Grant Network meeting, September.</p> <p>Rosanne Fortner, Robin Goettel and Jennifer Malinowski. 2004. Educators respond to invasive species: Interactive web-based activities for learning and decision making. Presented at the 13th International Conference on Aquatic Invasive Species, Ennis, Ireland.</p> <p>Fortner, Malinowski and Goettel, Robin. 2004. Classroom technology for learning and decision making about invasive species. [poster] Presented at the 13th International Conference on Aquatic Invasive Species, Ennis, Ireland.</p> <p>Fortner, Goettel, Malinowski and Hyonyong Lee. 2004. Interactive web-based education about watershed invaders. [poster] Presented at the Annual conference of the North American Association for Environmental Education, Biloxi, MS. October.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion</b>	<b>Presentation</b>
M/P-1	9/1/1978		Reutter, J.M. 2004. The Changing Lake Erie Ecosystem. Department of Biology. Wittenberg University. Springfield, Ohio. 16 February.
			Reutter, J.M. 2004. Ohio State University's Impact on Lake Erie. Cleveland OSU Alumni Club. Cleveland Playhouse Club. 17 February.
			Reutter, J.M. 2004. Improving Links Between Science and Coastal Management: Results of a Survey to Assess Science and Technology Needs. Coastal States Organization. Washington, DC. 9 March.
			Reutter, J.M. 2004. Stone Laboratory, Ohio Sea Grant, and Aquatic Invasive Species. Toledo Power Squadron. 6 April.
			Reutter, J.M. 2004. Ohio State University's Impact on Lake Erie. Ohio State University Research Foundation. Columbus, Ohio. 15 April.
			Reutter, J.M. 2004. IOOS: Sea Grant's Role. National Sea Grant Extension Assembly. Jekyll Island, Georgia. 25-28 April.
			Reutter, J.M. 2004. The USCOP and the Great Lakes. Great Lakes Commission. Cleveland, Ohio. 4 May.
			Reutter, J.M. 2004. The USCOP and the Great Lakes. Briefing for Ohio Congressional Delegation. 2358 Rayburn House Office Building. Washington, DC. 18 May.
			Reutter, J.M. 2004. The USCOP and the Great Lakes. Briefing for Great Lakes Congressional Delegation. 2358 Rayburn House Office Building. Washington, DC. 18 May.
			Reutter, J.M. 2004. The Changing Lake Erie Ecosystem. Natural Resources Class. Columbus, Ohio. 26 May.
			Reutter, J.M. 2004. The Changing Lake Erie Ecosystem. OSU Retired Faculty. Faculty Club. Columbus, Ohio. 26 May.
			Reutter, J.M. 2004. Aquatic Invasive Speices, the Dead Zone, Lake Erie Issues, and How You Can Help. Aqua Amigos Dive Club. Euclid, Ohio. 26 May.
			Reutter, J.M. 2004. What is an Ecosystem and Why is it Important: A Socio-Economic Perspective. National Marine Sanctuaries Program. Capitol Hill Oceans Week. Washington, DC. 9 June.
			Reutter, J.M. 2004. Understanding the Changing Lake Erie Ecosystem: Should We Be Concerned?. Cleveland Museum of Natural History. Conservation Symposium Series. Keynote Speaker. 10 September.
			Reutter, J.M. 2004. GLOS: Where Do We Go from Here. IJC and GLERL Workshop. AnnArbor, Michigan. 30 November to 3 December.
			Reutter, J.M. 2004. Sea Grant and the Great Lakes. Great Lakes Watershed Coordinators. Sawmill Creek Resort. Huron, Ohio. 7 December.



<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion</b>	<b>Presentation</b>
R/A-19-PD	5/15/2004	4/30/2005	<p>Tiu, L. 2004. Freshwater Shrimp Production. Introduction to Aquaculture Workshop. New Philadelphia, Ohio. January 24.</p> <p>Tiu, L. 2004. Production and Economics of Freshwater Shrimp: Overview of Ohio's newest crop, the freshwater shrimp. Spring Conference of the Society of Farm Managers and Rural Appraisers. Bellevue, Ohio. June 15.</p> <p>Tiu, L. 2004. Freshwater Shrimp Production in Ohio. Farm Science Review. London, Ohio. September 22.</p>
R/CE-5	3/1/2000	2/28/2003	<p>Shum, C. 2004. Principle of satellite altimetry: Applications to sea level studies. Invited lecture, IOC/GLOSS Training Workshop on Sea Level Data Analysis, Kuala Lumpur, Malaysia, February 8-21.</p> <p>Braun, A., B. Csatho, C. Kuo and Y. Yi. 2004. Icesat validation in the Great Lakes using tide gauge and radar altimetry data. EGU04-A06110, Geophys. Res. Abs. Vol. 6, 06110, 1st General Assembly EGU Symposium, Nice, France, April 25-30.</p> <p>Bouin, M., V. Ballu, S Calmant, K. Cheng, C. Shum, L. Testut, A. Braun and G. Jan 2004. Local sea surface in the Vanuatu Archipelago from GPS, satellite altimetry and pressure gauge data. EGU04-A-06894, Geophys. Res. Abs. Vol. 6, 06894, 1st General Assembly EGU Symposium, Nice, France, April 25-30.</p> <p>Yi, Y., K. Cheng, C. Shum, A. Braun and S. Calmant. 2004. Lake Level Monitoring and Altimeter Calibration in the Great Lakes. 2004 Envisat &amp; ERS Symposium, Salzburg - Austria, September 6-9.</p> <p>Kuo, C., S. Han, C. Shum and A. Braun. 2004. Southern ocean sea level variations. 2004 Envisat &amp; ERS Symposium, Salzburg - Austria, September 6-9.</p> <p>Cheng, K., V. Ballu, M. Bouin, S. Calmant and C. Shum. 2004. Absolute local sea surface in the Unuatu Archipelago from GPS, satellite altimetry and pressure gauge data. Fall AGU Meeting, San Francisco, December 13-17.</p>
R/CE-9-PD	10/1/2002	2/28/2003	<p>Shum, C. 2004. GPS-Buoy for altimeter calibrations satellite altimetry for tide modeling. Invited lecture, IOC/GLOSS Training Workshop on Sea Level Data Analysis, Kuala Lumpur, Malaysia, February 8-21.</p>
R/EM-23	3/1/2003	8/1/2005	<p>Moreno, Rocio and Elena G. Irwin. 2004. Does Distance Make Good Neighbors? The Role of Spatial Externalities and Income in Residential Development Patterns. Selected long paper presented at the AmericanAgricultural Economics Association Meeting, Denver, CO, August.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion</b>	<b>Presentation</b>
R/ER-55	3/1/2000	2/28/2003	Kim, G. W., T. Kwon, M.R. Gearhiser, E.A. Marschall, S.W. Fisher, and R.A. Stein. 2004. PCB Biomagnification in the zebra mussel - round goby - smallmouth bass food chain in Lake Erie. 44th Ohio Fish and Wildlife Conference, Columbus, Ohio, 6 February.
R/ER-60	3/1/2002	2/28/2004	<p>Heath, R. T. and M. Munawar. 2004. Does the microbial food web play an important role in the functioning of ultra-oligotrophic Himalayan aquatic. International Conference on The Great Himalayas: Climate, Health, Ecology, Management and Conservation, January 12-15. Invited Address.</p> <p>Robert T. Heath and Dennis Hansen. 2004. Dissolved organic phosphorus (DOP) compounds as a source of phosphorus and carbon to freshwater plankton communities, East Twin Lake, Portage Count. Ohio Academy of Science.</p> <p>Tracey Trzebuckowski Meilander and Robert T. 2004. Phosphate Uptake in Lake Erie Bacterioplankton. Ohio Academy of Science.</p> <p>Heath, R. T. 2004. The Dual Nature of Dissolved Organic Compounds. Am. Soc. Limnol. Oceanogr. Savannah, GA. June.</p> <p>Heath, R. T. 2004. Phosphorus dynamics in freshwater lakes: findings from the Laurentian Great Lakes. SERA-17 Conference. Invited Lecture. Charleston, SC. July.</p> <p>Heath, R. T. and M. Munawar. 2004. Significance of the microbial food web to Carbon and Phosphorus dynamics in Lake Huron. Finland. August.</p> <p>Heath, R. T. 2004. An Ecosystem Management Success Story: Lake Erie was Dead and now is alive and well. Invited Keynote Address for the Korean Assoc. of Biological Societies. Seoul, Rep. of Korea (South Korea) August.</p>
R/ER-66-PD	7/1/2003	9/30/2005	<p>Krieger, K.A. 2004. The misfortunes and successes of mayflies: what they tell us about the health of Lake Erie. Conservation Symposium Series: Lake Erie ecology, conservation &amp; restoration. Cleveland Museum of Natural History, Cleveland, OH. 10 September.</p> <p>Krieger, K.A. 2004. Canadian soldiers (burrowing mayflies) and the Lake Erie Quality Index: connecting biology to policy. Evening Seminar Series, Biology Department, Heidelberg College, Tiffin, OH. 9 December.</p>
R/ER-68-PD	11/1/2003	12/31/2004	Schrecengost, M.A., and L.R. Williams. 2004. A comparison of the macroinvertebrate assemblages in first and second order streams in the Cuyahoga Valley National Park. Midwest Fish and Wildlife Conference, Indianapolis, Indiana.

Project Number	Initiation Date	Completion	Presentation
R/LR-5	3/1/2001	2/28/2004	<p>C.A. Stepien and W.C. Borden. 2004. Population structure of smallmouth bass in Lake Erie. Oral research presentation at 44th Ohio Fish and Wildlife Conference, Columbus, Ohio, February 6. (given by C. Stepien)</p> <p>C.A. Stepien and W.C. Borden. 2004. Population genetic structure of smallmouth bass in the Great Lakes. Poster presentation designed and presented by Carol Stepien at the annual meeting of the Society for the Study of Evolution July 2004 held at Colorado State University, Ft. Collins, CO.</p>
R/LR-9-PD			<p>Marth, Thomas A. and Carol A. Stepien. 2004. Genetic Comparison of Logperch and Greenside Darters Upstream and Downstream of the Munroe Falls Dam in the Cuyahoga River. Poster presentation at the Society for the Study of Evolution annual meeting held at Colorado State University, June.</p> <p>Thomas Marth and Carol A. Stepien. 2004. Genetic Comparison of Logperch and Greenside Darters Upstream and Downstream of the Munroe Falls Dam in the Cuyahoga River. Oral research presentation given by high school teacher Thomas Marth at the Cleveland State University President's Initiative Symposium in August.</p> <p>Jerriell T. Hall, Thomas Marth, and Carol A. Stepien. 2004. Genetic Analysis of Rainbow Darters from Three Northeast Ohio Rivers Using the Combined Mitochondrial DNA Control Region and Cytochrome b Gene. Oral research presentation given by student Jerriell Hall at the Cleveland State University Research Experiences for Undergraduates Symposium in August.</p> <p>Amanda Haponski, Thomas Marth, and Carol A. Stepien. 2004. A Genetic and Morphological Analysis of two Subspecies of the Greenside Darter <i>Etheostoma blennioides blennioides</i> and <i>Etheostoma blennioides pholidotum</i>. Oral research presentation given by student Amanda Haponski at the Cleveland State University Research Experiences for Undergraduates Symposium in August.</p> <p>Krebs, R. A. 2004. The Impact of Exotic Mussels on Unionids in the Lake Erie Watershed: What are the risks to indigenous mussels?. Environmental Risk and Nonindigenous Species Invasions in the Great Lakes Region: Risk Analysis, Management and Communication, Urban College, Cleveland State University, Oct. 15.</p>
R/MB-2	9/1/2002	8/31/2004	<p>Abdulhadi A Al-Juhni, Bi-min Zhang Newby. 2004. Techniques for Incorporating Capsaicin into Silicone to Enhance Antifouling Performance of Silicone Coatings. Adhesion Society Meeting, Wilmington, NC, February.</p> <p>Carlos A. Barrios, Qingwei Xu, Teresa Cutright, Bi-min Zhang Newby 2004. Evaluation of Antifouling Properties of Zosteric Acid. Adhesion Society Meeting, Wilmington, NC, February.</p> <p>Carlos A. Barrios, Qingwei Xu, Teresa Cutright, Bi-min Zhang Newby. 2004. Zosteric Acid: An Effective Antifoulant For Reducing Bacterial Attachment on Coatings. Abstracts of Papers of the American Chemical Society, 228:322-Poly, Part 2, Philadelphia, PA, August.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion</b>	<b>Presentation</b>
R/PS-26	3/1/2000	2/28/2003	<p>Z. He, L. K. Weavers, S. J. Traina, and P. G. Hatcher. 2004. Sonolytic desorption of mercury from synthetic Al<sub>2</sub>O<sub>3</sub> sediments. Environmental Molecular Science Institute Third Annual Workshop. Columbus, OH, June 14-15</p> <p>Z. He, L. K. Weavers, J. M. Bigham, S. J. Traina. 2004. Sonolytic desorption of mercury from synthetic Al<sub>2</sub>O<sub>3</sub>. 228th ACS National Meeting. Philadelphia, PA, August 22-26.</p> <p>D. Chen; Z. He; L. K. Weavers; Y. Chin; H. W. Walker; P. G. Hatcher. 2004. Sonochemical Reactions of Dissolved Organic matter. 228th ACS National Meeting. Philadelphia, PA, August 22-26.</p>

**Number of Presentations**

68

## Table C-6. Presentations from Ohio Sea Grant Projects: 2005

Project Number	Initiation Date	Completion	Presentation
A/EP-1	9/1/1978		<p>Snyder, F.L. 2005. Lake Erie sport fishery alterations by non-native species. 114th Annual Meeting of the Ohio Academy of Science, Bowling Green, Ohio.</p> <p>Lichtkoppler, F. and D. Jensen. 2005. A Change in Habitattitude™ Leads to a New Outreach Partnership. 48th International Association of Great Lakes Research Conference, May 23-26. Ann Arbor, Michigan.</p> <p>Lichtkoppler, F.R., Snyder, F.L., Kelch, D.O., Hageman, J.R. and Reutter, J.M. 2005. Ohio's 2003 Great Lakes Fishery Leadership Institute. Extension Education poster accepted for the National Association of County Agricultural Agents Annual meeting and Professional Improvement Conference. July 17-21. Buffalo, New York.</p> <p>Lichtkoppler, F.R., Blaine, T.W. and Zondag, R.H. 2005. Generating Information for Decision Making: Curbside Recycling in Lake County, Ohio. Applied Research poster accepted for the National Association of County Agricultural Agents Annual meeting and Professional Improvement Conference. Buffalo, New York, July 17-21.</p>
A/EP-4	3/1/2002	2/28/2006	<p>Lucente, J. 2005. Local Government Leadership Education: Measuring the Impact of Leadership Skill Development on Public Officials. Hawaii International Conference on Education. Honolulu, Hawaii. Jan. 4-7.</p> <p>Lucente, J. and Davis, G. 2005. Evaluating and Documenting Impact in Local Government Leadership Training for Public Officials. Inaugural National Association for Community Development Extension Professionals Conference. Las Vegas, NV. Feb. 14-18.</p> <p>Lucente, J.E. 2005. Local Government Leadership: Creating A Community Leadership Network. 2005 International Coastal Zone Conference. New Orleans, Louisiana, July.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion</b>	<b>Presentation</b>
R/A-19-PD	5/15/2004	4/30/2005	<p>Tiu, L. 2005. Technology transfer using on-farm demonstrations to evaluate the feasibility of freshwater shrimp (<i>Macrobrachium rosenbergii</i>) culture in Ohio. Aquaculture America. New Orleans, LA. January 20.</p> <p>Wallat, G. 2005. Pond Construction for freshwater shrimp culture. March 28, 2005 Piketon, Lima and Wooster, Ohio.</p> <p>Wallat, G. 2005. Water Quality for freshwater shrimp culture. Freshwater Shrimp Culture Videoconference. March 28, 2005 Piketon, Lima and Wooster, Ohio.</p> <p>Tiu, L. 2005. Business planning and marketing freshwater shrimp. Freshwater Shrimp Culture Videoconference. March 28, 2005 Piketon, Lima and Wooster, Ohio.</p> <p>Tiu, L. 2005. Production of freshwater shrimp in Ohio. Freshwater Shrimp Culture Videoconference. March 28, 2005 Piketon, Lima and Wooster, Ohio.</p>
R/EM-23	3/1/2003	8/1/2005	<p>Elena G. Irwin and Rocio Moreno. 2005. Explaining Scattered Residential Development. Invited paper to be presented, Workshop on Urban Decentralization and Open Space Amenities, Dijon, France, December 2005.</p>
R/ER-51-PD	3/1/1999	5/1/2000	<p>Cunningham, Erica L., Curt L. Elderkin, and David J. Berg. 2005. Development and use of a genetic marker to differentiate cryptic mayfly (<i>Hexagenia</i>) species in the western basin of Lake Erie. Paper presented at 2005 annual meeting of the International Association for Great Lakes Research, Ann Arbor, MI.</p> <p>Cunningham, Erica L., Curt L. Elderkin, and David J. Berg. 2005. Using genetic markers to differentiate cryptic mayfly species. Paper presented at 2005 annual meeting of the Ohio Academy of Science, Bowling Green, OH.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion</b>	<b>Presentation</b>
R/ER-60	3/1/2002	2/28/2004	<p>Meilander, T. and R. T. Heath. 2005. The "not so dead" zone of Lake Erie. Oral Presentation. Annual Meeting of the Ohio Academy of Science. April 2005, Bowling Green</p> <p>Hurley, J.P. and R.T. Heath. 2005. Bacterial growth limitation by phosphorus and carbon at an offshore station in Lake Erie. Poster presentation at the Annual Meeting of The Ohio Academy of Science, April 2005, Bowling Green State University.</p> <p>R. T. Heath and D. Hansen. 2005. Adenosine triphosphate (ATP) as a source of P and C to bacterioplankton in a temperate hardwater lake. Poster presentation. Annual Meeting of the American Society of Limnology and Oceanography, June 2005, Santiago de Compostela, Spain.</p> <p>Meilander, T. and R. T. Heath. 2005. Seasonal activity in bacterial activity in the Lake Erie "Dead Zone". Oral Presentation. Annual Meeting of International Association of Great Lakes Research. Ann Arbor, MI, June 2005.</p> <p>Meilander, T. and R. T. Heath. 2005. LDOC influences phosphate uptake in Lake Erie bacterioplankton. Oral presentation. Annual Meeting of the American Society of Limnology and Oceanography, June 2005, Santiago de Compostela, Spain.</p>
R/ER-66-PD	7/1/2003	9/30/2005	<p>Krieger, K. A., Bur, M. T., Thomas, M. A., and N. J. Johnson. 2005. Distribution of burrowing mayflies (Ephemeroidea: <i>Hexagenia</i> spp.) in the central basin of Lake Erie, 1997-2004: potential relationship to hypoxia. 48th Conference of the International Association for Great Lakes Research, Ann Arbor, Michigan. (poster)</p> <p>Krieger, K. A., M. A. Thomas, N. J. Johnson, and M. T. Bur. 2005. Underwater Video as a Method for Detecting and Quantifying Rare Individuals, Applied to Zebra/Quagga Mussels (<i>Dreissena</i> spp.) and Burrowing Mayflies (<i>Hexagenia</i> spp.) in Lake Erie. Sea Grant review panel at Old Woman Creek National Estuarine Research Reserve, Huron, Ohio. 23 August.</p>
R/LR-4	3/1/1998	8/31/2003	<p>Rex M. Strange and Carol A. Stepien. 2005. Genetic stock structure of walleye (<i>Sander vitreus</i>) in Lake Erie as inferred from mitochondrial and microsatellite loci. Poster presentation at the Ohio Division of Wildlife annual meeting held in Columbus, Ohio on February 4.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion</b>	<b>Presentation</b>
R/LR-5	3/1/2001	2/28/2004	<p>Carol A. Stepien and Rex M. Strange. 2005. Discerning population genetic structure and geographic patterns of smallmouth bass in the Great Lakes. Poster presentation at the annual meeting of the Ohio Division of Wildlife held in Columbus, Ohio on Feb. 4.</p> <p>Stepien, Carol A. and Rex M. Strange. 2005. Population Genetic Structure and Geographic Patterns of Smallmouth Bass in the Great Lakes. Oral research presentation by Carol Stepien at International Association for Great Lakes Research (IAGLR) annual meeting May 2005, held in Ann Arbor, Michigan.</p> <p>Stepien, Carol A. and Rex M. Strange. 2005. Population Genetic Structure and Geographic Patterns of Smallmouth Bass in the Great Lakes. Oral research presentation by Carol Stepien at American Society of Ichthyologists and Herpetologists (ASIH) annual meeting July 2005, held in Tampa, FL.</p>



<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion</b>	<b>Presentation</b>
R/LR-7	3/1/2004	2/28/2007	<p>R.M. Strange and C.A. Stepien. 2005. Patterns of Genetic Variation Among Walleye Spawning Stocks in the Great Lakes Region. International Association for Great Lakes Research (IAGLR) annual meeting, Ann Arbor, Michigan.</p> <p>Carol A. Stepien, Alexander M. Ford, and Jhonatan Sepulveda Villet. 2005. Population genetic structure of yellow perch in the great lakes: a comparison with eastern North American populations. Poster presentation at the annual meeting of the Ohio Division of Wildlife held in Columbus, Ohio on Feb. 4.</p> <p>Rex M. Strange and Carol A. Stepien. 2005. Genetic stock structure of walleye (<i>Sander vitreus</i>) in Lake Erie as inferred from mitochondrial and microsatellite loci. Poster presentation at the annual meeting of the Ohio Division of Wildlife held in Columbus, Ohio on Feb. 4.</p> <p>Oswaldo Jhonatan Sepulveda-Villet and Carol A. Stepien. 2005. Yellow perch population genetics in Lake Erie. Oral research presentation to Yellow Perch Lake Erie Task Force at their annual meeting on Feb. 23.</p> <p>Rex M. Strange and Carol A. Stepien. 2005. Walleye population genetics in Lake Erie. Oral research presentation to Walleye Lake Erie Task Force at their annual meeting on Feb. 23.</p> <p>Carol Stepien. 2005. An overview of walleye and yellow perch stock structure in Lake Erie, based on nuclear and mitochondrial DNA analyses. Oral research presentation to Walleye and Yellow Perch Lake Erie Task Forces at their annual meeting on Feb. 23.</p> <p>James Coss and Carol Stepien. 2005. GIS Analysis of walleye and yellow perch spawning sites. Oral research presentation to Walleye and Yellow Perch Lake Erie Task Forces at their annual meeting on Feb. 23.</p> <p>Stepien, Carol A, Ford, Alex M., and Villet, Jhonatan Oswaldo Sepulveda. 2005. Population Genetic Structure of Yellow Perch In The Great Lakes: A Comparison With Eastern North American Populations. Poster presentation at International Association for Great Lakes Research (IAGLR) annual meeting, May 2005, Ann Arbor, Michigan.</p> <p>Rex Meade Strange and Carol A. Stepien. 2005. Historical biogeography of walleye (<i>Sander vitreus</i>) as inferred from mitochondrial and microsatellite loci. Oral research presentation at the American Society of Ichthyologists and Herpetologists annual meeting, July 2005, Tampa, Florida.</p> <p>Oswaldo Jhonatan Sepulveda-Villet, Alex M. Ford, and Carol A. Stepien. 2005. Population genetic structure of yellow perch in the Great Lakes: A comparison with eastern North American populations. Oral research presentation at the American Society of Ichthyologists and Herpetologists annual meeting, July 2005, Tampa, Florida.</p> <p>Carol A. Stepien and Rex Meade Strange. 2005. DNA identification of yellow perch fillets from a fish fry: Is the fish on your menu local?. Poster research presentation at the American Society of Ichthyologists and Herpetologists annual meeting, July 2005, Tampa, Florida.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion</b>	<b>Presentation</b>
			Rex Meade Strange. 2005. Histological adaptations and positive directional selection of rhodopsin genes played a role in the evolution of percid visual systems. Poster research presentation at the American Society of Ichthyologists and Herpetologists annual meeting, July 2005, Tampa, Florida.

R/MB-2	9/1/2002	8/31/2004	<p>QingWei Xu, Carlos A. Barrios, Teresa Cutright, Bi-min Zhang Newby. 2005. Toxicity Evaluation of Two Natural Product Antifoulants: Capsaicin and Zosteric Acid. The International Conference on Environmental Science and Technology, New Orleans, LA.</p> <p>Carlos A. Barrios, QingWei Xu, Teresa Cutright, Bi-min Zhang Newby. 2005. Methods for Incorporating Zosteric Acid into Silicone Coatings to Control its Release. The International Conference on Environmental Science and Technology, New Orleans, LA.</p> <p>QingWei Xu, Carlos A. Barrios, Teresa Cutright, Bi-min Zhang Newby. 2005. Reduction of Freshwater Bacteria Attachment in the Presence of Zosteric Acid. The International Conference on Environmental Science and Technology, New Orleans, LA.</p>
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R/PS-26	3/1/2000	2/28/2003	<p>Z. He, L. K. Weavers, S. J. Traina. 2005. Sonolytic release of mercury from Al<sub>2</sub>O<sub>3</sub> and sonochemical reaction of humic acid. EMSI/North Central NOM Workshop. Columbus, OH, June 15-17.</p> <p>Z. He, L. K. Weavers, S. J. Traina. 2005. Sonolytic release of mercury from mercury sulfide (cinnabar). Pacifichem 2005 Congress. Honolulu, HI, December 15 - 20.</p>
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**Number of Presentations**

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# **Appendix D**

## **Communications**

- **Publication Series and Distribution**
- **Web Sites**
- ***Twine Line* Newsletter**
- **Media Relations and Coverage**
- **Collaboration and Special Projects**
- **Displays**

## **OHIO SEA GRANT COMMUNICATIONS**

The mission of the Ohio Sea Grant Communications Program is to create and deliver communications for all elements of the Ohio Sea Grant College Program. To achieve this mission, our goals are to:

- Increase awareness and educate a variety of audiences (general public, school children, officials, governmental resources managers, and scientific communities) about the efforts of Ohio Sea Grant researchers, educators, and extension specialists;
- Interact and collaborate with communications efforts of the National Sea Grant College Program, the national and regional Sea Grant networks, and various outreach and research programs at The Ohio State University; and
- Assist the director with managing the program, strategic planning, developing the core program proposal, and coordinating with investigators regarding the development of proposals and publications.

The following sections highlight accomplishments in selected areas for January 2004 through September 2005:

- Publication Series and Distribution
- Program and Project Web Sites
- *Twine Line* Newsletter
- Media Relations and Coverage
- Collaboration and Special Projects
- Displays and Special Events

## PUBLICATION SERIES

The Ohio Sea Grant College Program maintains a publication series that is divided into 11 different categories. Each category serves different purposes and audiences, including the scientific community, the media, educators, governmental agencies, associations, industries, Sea Grant, and the general public. Publication policies are established by the Communications Manager, Publications Manager, and the Extension Program Coordinators.

Most general publications (books, brochures, education materials, fact sheets, guides, and public relations materials) are written and designed “in-house” by Ohio Sea Grant staff members or affiliated researchers.

Before adding items to a series, each one is analyzed in regards to the potential audience, and the best method of disseminating the information in a cost-effective manner; the document is also peer-reviewed as part of the publication process. A brief description of each series is listed below:

- **Book Series (BS)** are usually produced in cooperation with another agency or publisher.
- **Brochures (B)** describe programs and projects, list publications, or general information about a specific topic.
- **CLEAR Technical Reports (CTR)** are reports produced by the Center for Lake Erie Area Research on Lake Erie. Reports are primarily “historic.” *This category is no longer active.*
- **Education Publications (EP)** include curriculum materials and related items about Lake Erie and the Great Lakes. Materials are developed primarily by the Ohio Sea Grant Education Program and the Education Coordinator.
- **Fact Sheets (FS)** are one to four pages of information usually written for the general public.
- **Guide Series (GS)** include publications for the general public that focus on Lake Erie natural features and attractions.
- **Public Relations (PR)** include the media coverage reports and other items produced by staff or others about the program.
- **Reprints (RS)** are articles published in professional journals written as a result of Sea Grant sponsored projects.
- **Technical Bulletins (TB)** are based on Sea Grant research findings and written for technical and scientific audiences.
- **Technical Summaries (TS)** are based on Sea Grant research findings and are written for non-technical audiences.
- **Theses and Dissertations (TD)** were written by Sea Grant-supported graduate students. Copies are made only for the National Sea Grant Library.

## **Publications Produced**

The following list is all publication titles produced by Ohio Sea Grant from 2004-2005. Table 1 documents the total number of publications in each series, including press releases and consequential media articles.

### **Books**

- BS-013 Linking Ohio geology and botany: Papers by Jane L. Forsyth
- BS-014 Birds of western Lake Erie: Documented observations and notes

### **Brochures**

- B-056b Ohio Sea Grant Publications Brochure 2005
- B-062-D Franz Theodore Stone Laboratory handbook 2004
- B-063 Lake Erie Programs at The Ohio State University 2004: Ohio Sea Grant College Program, F.T. Stone Laboratory, CLEAR, GLAERC
- B-064 Franz Theodore Stone Laboratory brochure 2005
- B-065 Best Boater Practices 2004
- B-066 Ohio Clean Marinas 2004
- B-067 2004 Island Passport: Ecology, science and history (Seasonal guided tour
- B-068 2005 Island Passport: Ecology, science and history (Seasonal guided tour
- B-069 Ohio Clean Marinas 2005
- B-073 Best Boater Practices 2005

### **Education Publications**

- EP-091 Lake Erie Education Poster Series
- EP-091A Fish Educational Poster
- EP-091B Circle of Life Educational Poster

### **Guides**

- GS-019e 2004 Western Lake Erie guide to public waterfront access, charter fishing, marinas, boating excursions, festivals and events
- GS-019f 2005 Western Lake Erie guide to public waterfront access, charter fishing, marinas, boating, excursions, festivals and events

### **Newsletter**

*Twine Line*, the educational newsletter of Ohio Sea Grant, covering issues, events, and research related to Lake Erie and the Great Lakes. Published quarterly from July 2004 on. Jan/Feb 04; Mar/Apr 04; May/June 04; July-Sept 04; WI 05, SP 05, SU 05. (Note: For the time period reported here, 7 issues were produced.).

### **Public Relations**

- PR-011 Lake Erie Programs at The Ohio State University: Media coverage 2003
- PR-012 Lake Erie Programs at The Ohio State University: Media coverage 2004

### **Reprint Series**

- RS-277 Effectiveness of a coastal wetland in reducing pollution of a Laurentian Great Lake: Hydrology, sediment, and nutrients *Wetlands*, 23 (4): 778-791
- RS-278 Invasion genetics of Ponto-Caspian gobies in the Great Lakes
- RS-279 Heritability of heat tolerances in zebra mussel veligers
- RS-280 Morphometric factors in the formation of Great Lakes coastal wetlands
- RS-281 The current coastal resources management training market on Ohio's Lake Erie
- RS-284 Survey of fishes, amphibians, and reptiles of the Conneaut Creek drainage system, Ashtabula County, Ohio

- Kirtlandia, March (54): 1-32
- RS-285 The Great Lakes charter fishing industry: 1973 to 2002 Fisheries, 30 (3): 10-17
- RS-286 Physiochemical variations in DOM-synchronous fluorescence: Implications for mixing studies Limnology and Oceanography, 42 (8): 1766-1773
- RS-288 Genetic diversity of invasive species in the Great Lakes versus their Eurasian source populations: insights from risk analysis Risk Analysis, 25 (4): 1-18
- RS-289 Spatial-temporal Modeling of Soil Erosion and Contaminated Sediment Transport in Lake Erie Coastal Area ASPRS Annual Conference, Washington, D.C., May 22-26.
- RS-290 Data Models for Marine and Coastal Geographic Information Marine and Coastal Geographical Information Systems. (Book), : 25-36
- RS-291 A Study of the potential Attainable Geometric Accuracy of IKONOS Imagery Proceedings of 19th ISPRS Congress, Amsterdam, July 16-23 2000., 33: 587-595
- RS-292 A Comparative Study on Shoreline Mapping Techniques The 4th International Symposium on Coastal GIS, Halifax, NS, Canada, June 18-20 2001.,
- RS-293 Deriving 3-D shorelines from high resolution IKONOS satellite images with rational functions. ASPRS Annual Conference, St. Louis, April 23-27 2001.
- RS-294 Spatial Modeling and Analysis for Shoreline Change Detection and Coastal Erosion Monitoring. Journal of Marine Geodesy, 24 (1): 1-12
- RS-295 Digital Tide-coordinated Shoreline. Marine Geodesy, 25: 27-36
- RS-296 Photogrammetric Processing of High-Resolution Airborne and Satellite Linear Array Stereo Images for Mapping Applications. International Journal of Remote Sensing, 23 (20): 4451-4473
- RS-297 3-D Shoreline Extraction from IKONOS Satellite Imagery. Marine Geodesy, the 4th Special Issue of, 26 (1): 107-115
- RS-298 Experimental Study on Ground Point Determination from High Resolution Airborne and Satellite Imagery ASPRS Annual Conference, Portland, OR, May 17-21 1999,
- RS-300 Geographic information system (GIS) analysis of ecosystem invasion: Exotic mussels in Lake Erie Limnology and Oceanography, 45 (8): 1778-
- RS-301 An assessment of residents' willingness to pay for green space and farmland preservation conservation easements using the contingent valuation method Journal of Extension, 41 (4)
- RS-302 An assessment of household willingness to pay for curbside recycling: A comparison of payment card and referendum approaches Journal of Environmental Management, 76: 15-22

### Technical Bulletins

- TB-065 Franz Theodore Stone Laboratory: Program review 2002
- TB-066 Ohio Sea Grant College Program Progress Report 2002-2003
- TB-067 Teacher Education at Stone Laboratory: Program description, literature setting, and impact on educators
- TB-068 Franz Theodore Stone Laboratory: Program review 200310/11/200
- TB-069 Friends of Stone Laboratory Annual Report 2002-2003
- TB-070 Friends of Stone Laboratory Annual Report 2003-2004
- TB-071 Ohio Clean Marinas Program Guidebook
- TB-071 Ohio Clean Marinas Program Guidebook (revised)
- TB-071 Ohio Clean Marinas Program Guidebook (revised)
- TB-073 Implementation plan for the Ohio Sea Grant College Program 2005-2007
- TB-075 Ohio Sea Grant College Program Progress Report 2003-2004
- TB-076 Franz Theodore Stone Laboratory: Program review 2004
- TB-077 Scientific surveys of Lake Erie: A historical review
- TB-078 Substrate Distribution on Western Basin reefs with depth and storm impacts on walleye reproductive habitat

## Technical Summaries

- TS-032 Illinois-Indiana's Great Lakes charter fishing industry in 2002
- TS-033 Michigan's Great Lakes charter fishing industry in 2002
- TS-034 Minnesota's Great Lakes charter fishing industry in 2002
- TS-035 New York's Great Lakes charter fishing industry in 2002
- TS-036 Ohio's Great Lakes charter fishing industry in 2002
- TS-037 Pennsylvania's Great Lakes charter fishing industry in 2002
- TS-038 Wisconsin's Great Lakes charter fishing industry in 2002
- TS-039 The Great Lakes charter fishing industry in 2002
- TS-041 Phase One Development of a Comprehensive GIS for the Mentor Marsh and its Proximal Watershed
- TS-042 Costs of Alternative Zebra Mussel Control Strategies: The Case of Great Lakes Surface Water Users. Proceedings Seventh International Zebra Mussel and Aquatic Nuisance Species Conference, January 28-31, 1997, Radisson Hotel, New Orleans, LA, co-hosted by Ontario Hydro and U.S. Army Corps of Engineers, Waterways Proceedings Seventh International Zebra Mussel and Aquatic Nuisance Species Conference, January 28-31, 1997, Radisson Hotel, New

## Theses and Dissertations

- TD-090 Impact of clipping PHRAGMITES AUSTRALIS and flooding at two different depths on wetland vegetation structures in a Lake Erie marsh
- TD-091 Vegetation and plant diversity of a fresh water marsh on the coast of Lake Erie under high and low water conditions
- TD-092 The Implications of group-size choice and post-settlement movement on the behavior and populations of the damselfish DASCYLLUS ALBISELLA
- TD-093 Assessing spatial and temporal vegetative dynamics at Mentor Marsh, 1796 to 2000 A.D.
- TD-094 The effect of participation in place-based environmental education programs on student affect toward science: A case study of F.T. Stone Laboratory middle school
- TD-095 Larval fish exchange between Lake Erie and a coastal Marsh
- TD-096 Impact of television on public environmental knowledge of Great Lakes issues
- TD-097 A CFD model for wave transformations and breaking in the surf zone
- TD-098 Physical and biological processes influencing walleye early life history in western Lake Erie
- TD-099 GIS modeling of phosphorus concentrations, soil loss due to water erosion and coastal terrain change detection in Lake Erie coastal areas
- TD-100 Three economic applications of non-market valuation



**Table 1. Ohio Sea Grant outreach publications 2004-2005.**

	2004	2005
Scientific publications (including published abstracts)	21	5
In process/press (not yet published at date)	5	7
Scientific presentations	68	42
Books	—	2
Brochures	11	4
Education publications	4	3
Fact sheets	—	—
Guides	1	2
Newsletters	5	4
Public relations	1	1
Technical Bulletins	5	9
Technical Summaries	—	10
Misc reports <sup>1</sup>	6	1
Press releases	17	20
Popular-press articles (venues)	167(79)	TBD

<sup>1</sup>As reported by PIs as research results (not scientific publications/journal articles)

### Publication Distribution

Ohio Sea Grant publications are distributed according to the guidelines provided by the National Sea Grant College Program. In addition, publications are distributed through Ohio State University Extension and selected organizations such as the Lake Erie Marine Trades Association and the Lake Erie Nature and Science Center, and during special events such as the Ohio Sea Grant & Stone Laboratory Winter Program and summer Open House. Materials are also distributed through Stone Laboratory classes, teacher workshops, university courses in the region, and by request (web site, telephone, or through the publications brochure order form).

Publication announcements are sent via e-mail to GLIN Announce (maintained by the Great Lakes Information Network), the Sea Grant Communicators Network, and our own e-mail distribution list that contains addresses for scientists, researchers, educators, agency personnel, and media. Table 2 shows the publication distribution for 2003–June 2005. See Table 3 for a list of the different groups that requested materials for this time frame, and a list of unique special events and collaborating agencies that requested “bulk” quantities of Ohio Sea Grant publications. Table 4 lists unique special events and collaborating agencies that requested “bulk” quantities of Ohio Sea Grant publications.

**Table 2. Distribution of Ohio Sea Grant Outreach Publications, 2004-2005.**

	2004	2005
Fact Sheets <sup>1</sup>	14,445	14,458
Technical Pubs. <sup>2</sup>	138	910
Education Pubs.	4,799	2,711
Guides	936	5,163
Brochures	16,242	25,393
Books	--	12
AIS ID Cards	4,023	1,500
Newsletter	29,000	20,000
<b>Stone Lab Materials</b>		
Fliers	31,579	32,000
Brochures	6,909	7,820
Event fliers (REUs, Virtual Workshop, Open House, Jobs)	--	1,817
Educator Flier	100	100
Courses Supplement	2,095	1,980
Workshop Brochure	1,000	1,012
Dorm Flier	804	641
Handbook	250	250
Posters	1,430	2,000
Bus Posters	240	220
Course Fliers	--	350
Postcards	--	5,000
Pocket Calendars	--	12,000
<b>Total Requests</b>	<b>113,990</b>	<b>135,337</b>

<sup>1</sup>Most of our fact sheets are now available for download via our web site.

<sup>2</sup> Includes journal reprints, technical bulletins, and technical summaries.

**Table 3. Audiences requesting Ohio Sea Grant materials 2004-2005.**

Audiences	2004	2005
General public	148	198
Organization/Zoo/Park/Museum	6	25
K-12 student	3	2
K-12 educator	12	21
University educator	12	21
Government	2	1
Researcher	5	4
University student	9	1
Industry	4	2
<b>Stone Lab Application Materials</b>		
K-12 student	139	118
K-12 educator	131	75
University student	226	130
University educator	10	10
Others	22	40
<b>Total Requests</b>	<b>729</b>	<b>648</b>

**Table 4: Special Events/Collaborating Agencies that Requested/Distributed Ohio Sea Grant Publications**

2004	2005
<p>Aquatic Amigos Scuba Club, Cleveland Ohio            Bob Woods Harrison Marina, Toledo Ohio            Cedar Point in Water Boat Show            Cleveland Boat Show            Cleveland Museum of Natural History            Cleveland Sport Show            Coastal Marine II, Port Clinton Ohio            Cuyahoga County Board of Health            Docks and Marinas Conference, Madison Wisconsin            Earth Science Teacher Workshop            Eisenhower National Clearing House            EPA, Twinsburg Ohio            Farm Science Review, London Ohio            Fort Meigs, Perrysburg Ohio            Great Lakes Historical Society, Vermilion Ohio            Great Lakes Sea Grant Network Conference            Great Lakes Student Summit, Buffalo New York            Holiday Harbor Marina, Huron Ohio            Huron Lagoon, Huron Ohio            Lake Erie Nature and Science Center, Lorain Ohio            Lake Erie Islands Historical society, Put-in-Bay Ohio            Louis Agassiz School, Cleveland Ohio            Make a Splash Project Wet Festival at Sharon Woods Metro Parks, Westerville Ohio            Midway Marina, Port Clinton, Ohio            National Wildlife Federation, Great Lakes Reporters Tour            National Teacher Training Institute for math Science and Technology, Cleveland Ohio            Ohio Department of Natural Resources, Division of Watercraft, Cleveland Ohio            Ohio Department of Natural Resources, Division of Watercraft, Columbus Ohio            Ohio EPA Earth Day Event            Ohio Lake Erie Commission, Toledo Ohio            Ohio Sea Grant Charter Captains Conference            Ohio Sea Grant Congressional Legislature Day on Lake Erie            Ohio Sea Grant Clean Marinas/Boaters Programs            Ohio Sea Grant Stone Lab Winter Lecture            OSU Academic Success Series            OSU Community Extension Children's Day            OSU OSURF Presentation            OSU Young Scholars Program            OSU Zoology Course            Ottawa County Visitors Bureau, Port Clinton Ohio            Perry's Victory and International Peace Memorial, Put-in-Bay Ohio            Project Wet Leadership Workshop, Baltimore Ohio            Rocky River Watershed Festival            SCUBA Fest            SECO Conference, Columbus Ohio            Soil and Water Conservation District, Athens Ohio            Steelhead Extension Seminar, Lorain Ohio            Stone Lab Open House            Sustainable Great Lakes Conference, Buffalo New York            Toledo Yacht Club            Walnut Springs Middle School Fishing Club, Westerville Ohio            W.L. Baumler Sport Show</p>	<p>Cedar Point in Water Boat Show            Cleveland Boat Show            Cleveland in Water Boat Show            Cleveland Museum of Natural History            Cleveland Sport Show            Detroit River Fest            Earth Science Teacher Workshop            Eisenhower National Clearing House            Farm Science Review, London Ohio            Great Lakes Historical Society, Vermilion Ohio            Great Lakes Sea Grant Network Conference            Great Lakes Student Summit, Buffalo New York            Lake Erie Nature and Science Center, Lorain Ohio            Lake Erie Islands Historical society, Put-in-Bay Ohio            Make a Splash Project Wet Festival at Sharon Woods Metro Parks, Westerville Ohio            National Teacher Training Institute for math Science and Technology, Cleveland Ohio            North Coast Fall Fishing Fest            Ohio Department of Natural Resources, Division of Watercraft, Cleveland Ohio            Ohio Department of Natural Resources, Division of Watercraft, Columbus Ohio            Ohio EPA Earth Day Event            Ohio Lake Erie Commission, Toledo Ohio            Ohio Sea Grant Charter Captains Conference            Ohio Sea Grant Congressional Legislature Day on Lake Erie            Ohio Sea Grant Clean Marinas/Boaters Programs            Ohio Sea Grant Stone Lab Winter Lecture            Ohio Sea Grant Lake Erie Conference/State of the Lake            Ohio Sea Grant Teacher Workshop/Lichtkoppler            OSU OSURF Presentation            OSU Rhoades Scholars            OSU Young Scholars Program            Ottawa County Visitors Bureau, Port Clinton Ohio            Perry's Victory and International Peace Memorial, Put-in-Bay Ohio            Rocky River Watershed Festival            SECO Conference, Columbus Ohio            Steelhead Extension Seminar, Lorain Ohio            Stone Lab Open House            Walnut Springs Middle School Fishing Club, Westerville Ohio            Xenos Resource Fair</p>

## **OHIO SEA GRANT WEB SITE**

Ohio Sea Grant Communications designs and oversees the program web site, which includes Ohio Sea Grant, Stone Laboratory, GLAERC, and individual Sea Grant project web sites. The Communications Manager creates the content for the web pages and the webmaster designs and oversees the site.

Over the last five years, the web site has grown to contain information including publications, research projects, summer courses, on line giving, and new web pages for the Clean Marinas and Boaters Programs, Biocomplexity Project, and the Friends of Stone Lab. Program fact sheets, technical summaries, and newsletter issues are also available on line as PDF documents as well as access to the project reporting system.

In 2002, Extension and Communications developed the *Lake Erie Information Discussion Board*. Monitored daily by our Extension Specialists/Educators, the Board provides plain-talk answers to science inquiries and a forum to discuss Lake Erie-related concerns. Since its start, the Board has consistently been in the top ten most visited pages on the Sea Grant web site accessible at [www.ohioseagrant.osu.edu/discuss](http://www.ohioseagrant.osu.edu/discuss).

In 2003, the web site was overhauled and redesigned to make it Section 508 compliant. New features included a calendar of events, updated imagery for each program, and a topically-based “related links index.” By consolidating web site pages and offering site indexes, the revised site provides users with easier navigation and accessibility and allows Communications to easily update the site. The site also provided users the opportunity to be informed of new *Twine Line* issues via an e-mail notification. Because of rising printing costs, this is another step to provide more readers access to the latest newsletter and help decrease the reliance on hard copy distribution. Communications began restructuring the web site in 2005 in order to add new features. These additions include a new Lake Erie discussion board, individual extension agent pages, on line proposal submissions, and new searchable subject and publication directories.

### **Stone Lab Web Site**

For easier navigation and a newer look, Communications overhauled the Stone Lab web site in late 2004, incorporating the new, youthful graphic elements of the current Stone Lab Promotional Campaign. Besides easier navigation, new features include database-driven news and event calendar, a program photo gallery, and a custom-built weather forecast. Potential Stone Lab students can download applications faster, and icons better direct students to syllabi, course calendars, and text and supply requirements. As a result of the cleaner, more navigable site, web site activity on the Stone Lab site tripled in fall 2004 compared to fall 2003 statistics.

### **Ohio Clean Marinas and Clean Boater Web Sites**

In 2004, Communications designed web sites for the newly-created Ohio Clean Marinas and Clean Boater Programs. The sites house all program materials, including the *Marinas Guidebook* and appendices, program brochures, and pledge information. In early 2005, Communications added an on line pledge option for those who want to become clean boaters. Communications maintains the searchable record of all pledged boaters.

### **Biocomplexity Project Web Site**

Communications developed a new web page for the National Science Foundation funded Biocomplexity Project in 2005. The project required a site for the general public and an internal discussion board for its 15 researchers. The discussion board serves as an organizational system for the researchers, allowing them to categorize and upload data by subject and sub-committee.

## Web Site Statistics

Since 1999, Communications has been using WebTrends, a commercial program that performs web site analysis. In 2003, the Ohio Sea Grant web site received 1,526,882 hits and 1,173,646 in 2004. Staff members' usage is excluded from the statistics and hits by the Google and Inktomi search engines are also excluded because of the way their indexing system configurations over-inflate site statistics. Table 5 shows information related to the number of hits and visitors to the site during 2003-2004. In late 2005, the program's web sites transitioned over to a new host and server. Because of this transition, 2005 web statistics are still at the time of this report being reviewed.

**Table 5. Number of hits and visitors to the Ohio Sea Grant web site 2003-2004.**

	2003	*2004
Hits for entire site	1,526,882	1,173,646
Average hits per day	4,209	3,215
Unique users	87,164	62,984

*\*Updated WebTrends software instituted in early 2004 incorporates better site filters to reduce redundancy. This artificially suppressed 2004 statistics.*

During this timeframe, the most frequently visited pages within our site included various fact sheets, information on zebra mussels (and other aquatic invasive species) and the Stone Laboratory course schedule. Table 6 shows the most frequently requested pages and materials for this timeframe.

**Table 6. Most Frequently Requested Pages and Materials: 2004-2005.**

### Fact Sheets

Round Gobies invade North America (FS-065)  
 Farm Pond Management Tips (FS-061)  
 Fish Smoked at Home (FS-032)  
 Zebra Mussels in North America: The Invasion and its Implications (FS-045)  
 Find Maps and Charts (FS-010)  
 Lake Erie Water Quality: Past, Present and Future (FS-046)  
 Boaters: Take Action Against Zebra Mussels (FS-054)  
 Ruffe: A Serious Threat to North American Fisheries (FS-064)  
 Getting to Know your Catch: Lake Erie Salmonid Identification (FS-031)  
 The Spiny Water Flea, *Bythotrephes cederstroemi*: Another Unwelcome Newcomer to the Great Lakes (FS-049)  
 Zebra Mussel Migration to Inland Lakes and Reservoirs: A Guide for Lake Managers (FS-058)

### Subject Directory

Aquatic Nuisance Species subject directory  
 Zebra Mussel subject directory

### Other Pages

Lake Erie Information Discussion Board	Stone Laboratory Summer Courses	Publications Section
Current Events	Research Project Reporting	Clean Marinas Guidebook

In 2006, Communications plans to analyze the web site to better market specific sections to the public and specialized audiences, such as researchers and K-12 teachers.

### **Awards and Recognition**

The Stone Laboratory web site has received several awards over the last two years. The site received the 2005 APEX Award in web design, the 2005 Bronze Award from ACE for best web site, and was part of the Communications project that won the 2005 Blue Ribbon People's Choice Award at the 2005 Sea Grant Week Conference. Ohio State's University Relations also featured Stone Lab site on the "OSU splash page" in Spring 2005.

### ***TWINE LINE NEWSLETTER***

Ohio Sea Grant's *Twine Line* has provided coverage of Lake Erie and Great Lakes environmental issues, outreach, and research for over 26 years. As one of Ohio Sea Grant Communications' primary tools for disseminating information to the media, *Twine Line* highlights Extension activities and programming, new Sea Grant-funded research, and educational opportunities. Jill Jentes Banicki oversees the production of the newsletter and writes 75% of its content. Staff members representing Sea Grant research, education, and extension, and Friends of Stone Lab members write the other 25%.

Approximately 6,000 newsletters are distributed quarterly through paid and free subscriptions and at special events and conferences. Subscribers include the general public, elected officials, libraries, Sea Grant and Extension personnel, outdoor writers, teachers (K-12 and university), and Great Lakes media reporters. Past and current issues of *Twine Line* are also available via the web site and subscribers have the opportunity to be notified of new issues via e-mail.

### **Partnerships**

From February 1993 to June 2004, Ohio Sea Grant partnered with the Ohio Lake Erie Commission to include its four-page *North Coast Newsletter* into each of its six issues of *Twine Line*. The Commission is an agency that represents six state agencies overseeing Lake Erie. The partnership with the Commission allowed Sea Grant to increase its outreach audience by more than one-eighth and helped finance the production costs of *Twine Line*. The Commission discontinued its newsletter in hardcopy in 2004 due to budget constraints.

To compensate for the funding loss, Communications made *Twine Line* a quarterly publication in July 2004, but expanded it from eight pages to 12 pages. This decision gave readers the same amount of information but saved over \$2000 in postage costs per year. Communications contacted all unique *North Coast News* readers and offered them the option to subscribe to *Twine Line* (hardcopy or electronically) in order to maintain the newsletter's current readership.

In 1998, Sea Grant partnered with the non-profit volunteer group, Friends of Stone Lab (FOSL), to incorporate its two-page newsletter into *Twine Line*. This partnership allowed subscribers to read about the most current research going on at the lake, while also finding out how they can help further Stone Lab's educational and research initiatives through volunteer and donation assistance. In addition to increasing readership, FOSL also shares in the costs of the newsletter. When *Twine Line* moved to a quarterly, 12-page publication, FOSL's coverage was increased from two to three pages per issue.

### **Research Reviews**

In January 1998, Communications created *Research Reviews*, a series of articles that summarized and promoted the latest Ohio Sea Grant research to the public. Run as a regular feature in *Twine*

*Line*, these articles have been a successful relationship between Communications and researchers, with the science writer working with researchers to develop custom graphics and one-to-two page research summaries. To target the media twice, Communications regularly sends each research article out as a news release. The combination of the article and the news release has resulted in increased media exposure, with typically five to ten media stories generated by each *Twine Line* articles.

### **Newsletter Improvements and Awards**

Communications has overhauled the look of *Twine Line* twice over the past seven years. Beginning with the July/August 1998 issue, *Twine Line* was updated to a two-color publication to increase clarity of graphics. In June 2004, it was switched to a quarterly newsletter.

On the basis of these improvements, *Twine Line* has won a number of national awards, including three APEX Awards for “best newsletter,” “feature writing,” and “series writing.” In April 2003, *Twine Line’s* article *Walleye Anglers Keep Pace with Changing Lake Erie* was awarded second place in the “Best Magazine How-To Article” category at the 2003 Outdoor Writers of Ohio.

## **MEDIA RELATIONS AND COVERAGE**

Reporters frequently request information on Lake Erie issues from Ohio Sea Grant. Communications staff members provide background information, interviews, and contact information to media.

### **News Releases**

Communications distributes releases to the media through an e-mail distribution list, the Great Lakes Information Network (GLIN), and The Ohio State University’s Communications Office. News releases are also available on line through our web site. Communications distributed 17 in 2004 and 20 in 2005.

### **Table 7: News Releases Distributed during 2004 and 2005**

#### **2004**

Research Find Steelhead Fishing Beneficial to Anglers and Economy (1/05/04)  
Register for 2004 Stone Laboratory Summer Courses (2/5/04)  
Friends of Stone Lab Sponsors Winter Program and Silent Auction (2/10/04)  
Stone Laboratory Classes Still Available for Summer 2004 (5/04/04)  
Stone Laboratory Offers Photography Workshop (5/18/04)  
Stone Laboratory Guest Lecture Series (6/2/04)  
Ohio Sea Grant Program Receives Awards (7/08/04)  
Biggest Legislature/Congressional Day for Ohio Sea Grant (7/20/04)  
Eco-History Island Passport at Put-in-Bay (8/06/04)  
New Field Trip/Workshops at Stone Lab for Teachers (8/11/04)  
Annual Open House at Gibraltar Island (8/15/04)  
Friends of Stone Lab Sponsors Buckeye Island Hop September 25-26 (9/01/03)  
Ohio Clean Marinas Program Kick-Off At North American In-Water Boat Show (9/10/04)  
Ohio Clean Marinas and Boater Programs Success in Pledge Signing (9/17/04)  
Teacher fellowships at Stone Lab Available for Summer 05 or 06 (11/3/04)  
Virtual Aquatic Workshops from Stone Lab (11/3/04)  
Friends of Stone Lab Call for Auction Donations (12/10/04)

## 2005

Friends of Stone Lab Sponsors Winter Program and silent Auction (1/17/05)  
Research Examines Heat Tolerance in Zebra Mussels (2/25/05)  
Stone Lab Announces Teacher Fellowships (3/3/05)  
Stone Lab Classes Still Available for Summer 2004 (3/28/05)  
Ohio Sea Grant Program Receives ACE Awards (4/25/05)  
New Research Credit for College Students (5/5/05)  
Stone Lab Offers Photography Workshop (5/17/05)  
Stone Lab Offers OSU Employees Conference Opportunities (5/27/05)  
Eco-History Island Passport at Put-in-Bay (6/7/05)  
Gibraltar Island Tours at Put-in-Bay (6/7/05)  
Ohio Sea Grant Program Receives APEX Award (7/15/05)  
Annual Stone Lab Open House (8/1/05)  
Lake Erie Coastal Trail Becomes National Byway (9/22/05)  
Biological Fieldstation Positions Available (9/24/05)  
Nine Lake Erie Marinas to Receive Ohio Clean Marinas Certification (10/7/05)  
Future of Ohio's Lake Erie Basin Conference Announcement (11/4/05)  
Ohio Clean Marinas Workshops to Help Grow Program (11/21/05)  
Ohio Sea Grant Promotes New License Plate Petition (12/13/05)  
Web Site under Construction (12/16/05)  
Lake Erie License Plates (12/16/05)

## Media Coverage

Media receive *Twine Line*, along with its accompanying news releases. Smaller papers frequently reprint articles, while reporters at larger papers tend to use the newsletter as a tip sheet. Some newspapers have reprinted as many as four articles from *Twine Line* in one of their single issues. Since implementing the Research Review column, reporters find it easier to locate current information about Ohio Sea Grant research projects.

The tracking of articles that originally appeared in *Twine Line* and other articles about Ohio Sea Grant programs is coordinated by Publications Manager Nancy Cruickshank. She reviews newspapers and uses Lexus-Nexus and other on-line search engines and databases. With the availability of on-line search engines, Communications has found it more cost efficient to conduct searches in-house rather than hire a clipping service.

Articles have appeared in prominent Ohio newspapers such as the *Columbus Dispatch*, *Toledo Blade*, *The Plain Dealer* (Cleveland), and the *Akron Beacon Journal*. Articles have also appeared in national publications such as the *Washington Post*, *Nature*, *Chicago Tribune*, and the *Christian Science Monitor*. In addition, Ohio Sea Grant programs and projects have been featured on *National Public Radio*, *Earthwatch Radio*, Ohio News Network, NOAA's OAR "Featured Research" web page, and on local television newscasts around Ohio.

Over 169 articles were printed within 79 different publications in 2004. These articles are compiled annually into a media coverage report. At the time of this report, media exposure for 2005 is currently being organized.



## Ohio Sea Grant and Stone Laboratory in the Media 2004

### January

01.06.2004. "3 month mission, OSU mapmakers chart rovers course." COLUMBUS DISPATCH.  
01.08.2004. "Cleaner water helps all residents." NEWS HERALD.  
01.08.2004. "Researchers prepare for Mars landing." [www.eng.ohio-state.edu](http://www.eng.ohio-state.edu)  
01.08.2004. "Scientists fidget as engineers prep Mars rover." COLUMBUS DISPATCH.  
01.11.2004. "Boat Show to feature plenty of fishing." CLEVELAND PLAIN DEALER.  
01.11.2004. "Stone Lab, Ohio Sea Grant hope for funds from sales." TOLEDO BLADE.  
01.16.2004. "2004 Boat Show Cleveland IX Center." [www.lemta](http://www.lemta)  
01.16.2004. "That's the spirit!; Rover on the move." COLUMBUS DISPATCH.  
01.23.2004. "Mars Rover sudden silence baffles NASA." COLUMBUS DISPATCH.  
01.24.2004. "Bouquets and brickbats." NEWS HERALD.  
01.24.2004. "Ohio cashes in on steelhead." NEWS HERALD.  
01.24.2004. "Spirit weak, opportunity knocks, second Rover lands." COLUMBUS DISPATCH.  
01.27.2004. "Erie crater? NASA limits naming rights on Mars." COLUMBUS DISPATCH.  
01.29.2004. "Fish Farmers think they're the healthy choice." COLUMBUS DISPATCH.  
01.30.2004. "Two Working Rovers on Martian Soil." ASCRIBE NEWSWIRE.  
01.30.2004. "Mars Rover data studied for sign of mineral." ASSOCIATED PRESS.  
01.30.2004. "Wet Canary." EARTHWATCH RADIO.  
January 2004. "Become an Ohio Clean Marina." GREAT LAKES SCUTTLEBUTT.  
January/February 2004. "DNA used to differentiate and trace mussel species." FISHWRAPPER.  
January/February 2004. "Reopening coastal wetlands raises fish diversity." FISHWRAPPER.  
January/February 2004. "Charter Captains Conference." CHARTER CHATTER LECBA

### February

02.01.2004. "Public input wanted." COLUMBUS DISPATCH.  
02.08.2004. "Mars exploration by very remote control." CLEVELAND PLAIN DEALER.  
02.14.2004. PORT CLINTON NEWS HERALD.  
02.17.2004. "Timothy Bartish Obituary." FORT COLLINS COLORADOAN.  
02.19.2004. "Endowed funds named." ONCAMPUS.  
02.21.2004. "No plans to charge for ice floe rescues." CLEVELAND PLAIN DEALER.  
02.28.2004. CINCI AM 700  
02.29.2004. "Anglers get jump on trout." CLEVELAND PLAIN DEALER.  
February 2004. "Jay Cooke-Civil War Financier." THE TRUMPETEER.  
February 2004. "Stocking steelhead benefits anglers and economy new OSG research shows." INLAND SEAS ANGELER.

### March

03.01.2004. "PIB raptor watch." PUT-IN-BAY GAZETTE.  
03.01.2004. "Ask the snake lady." PUT-IN-BAY GAZETTE.  
03.01.2004. "Top predators return to islands." PUT-IN-BAY GAZETTE.  
03.01.2004. "Research uses engineered algae to vaccinate fish." FISHWRAPPER.  
03.03.2004. "Mars was once drenched with water." COLUMBUS DISPATCH.  
03.06.2004. "Steelhead trout with the Buckeye Sportsman & guest Dave Kelch." MISC STATIONS.  
03.12.2004. "Exhibit digs into safety of fish dinners." CLEVELAND PLAIN DEALER.  
03.14.2004. "No walleye stingers permitted in Maumee or Sandusky bays." TOLEDO BLADE.  
03.14.2004. "No walleye stingers permitted in two area bays." TOLEDO BLADE.  
03.18.2004. "Endowed funds named." ONCAMPUS.  
03.22.2004. "Winners of 2004 Stockholm Water Prize." NORDIC BUSINESS REPORT.  
03.22.2004. "Danish & American Ecologists Share 2004 Stockholm Water Prize." PR NEWSWIRE.  
03.22.2004. "US, Danish professors win Stockholm Water Prize." AGENCE FRANCE PRESSE.  
03.22.2004. "2004 Stockholm Water Prize." GLIN ANNOUNCE.

03.22.2004. "American & Danish ecologists win Water Prize." AP WORLDSTREAM  
03.22.2004. "Stockholm water prize winners announced." ASSOCIATED PRESS  
03.24.2004. "Mars was once drenched with water." COLUMBUS DISPATCH.  
03.29.2004. "Wetlands professor wins prestigious water prize. OSU TODAY  
03.31.2004. "Lake Erie protection fund grantees final report." GLIN ANNUMNCE.  
March 2004. "Cleveland area artificial reefs." MIDWEST OUTDOORS OHIO SECTION.  
March 2004. "Former Stone Lab instructor receive book award." FISHWRAPPER.  
March 2004. "Research finds steelhead fishing beneficial to anglers and economy." FISHWRAPPER.  
March 2004. "Research uses engineered algae to vaccinate fish." FISHWRAPPER.  
March 2004. "Steelhead Trout: A money fish for Ohio." MIDWEST OUTDOORS OHIO SECTION.

#### **April**

04.01.2004. "Keeping snakes out of your boat." PUT-IN-BAY GAZETTE.  
04.01.2004. "Exotic species responsible for fishing restrictions." PUT-IN-BAY GAZETTE.  
04.01.2004. "Islander endowment." PUT-IN-BAY GAZETTE.  
04.03.2004. "Group wants to give drivers better look at lake." CLEVELAND PLAIN DEALER.  
04.04.2004. "Scenic byway plan would get travelers to Lake Erie." COLUMBUS DISPATCH.  
04.05.2004. "Boosters want lake tour closer." BUCK COUNTY (PA) COURIER TIMES.  
04.05.2004. "Boosters want lake tour closer." BURLINGTON COUNTY (PA) TIMES.  
04.18.2004. "OSU-South's Aquaculture Program." CHILLICOTHE GAZETTE.  
04.20.2204. "Special plates fund preservation projects." TOLEDO BLADE.  
April 2004. "Happy days are here again for Erie anglers." FISHWRAPPER.  
April 2004. Reopening coastal wetlands to Lake Erie increases fish diversity. FISHWRAPPER.  
April 2004. "Stone Laboratory friends active." FISHWRAPPER.  
April/May 2004. "Great Lakes restoration priorities." LAKE ERIE SHORELINES.  
April/May/June 2004. "Staff notes." OSU EXTENSION HIGHLIGHTS.  
Spring 2004. "Keep a healthy pond." OUT HERE.

#### **May**

05.01.2004. "Nature camp at the bay." PUY-IN-BAY GAZETTE.  
05.01.2004. "Water snake project among those funded." PUY-IN-BAY GAZETTE.  
05.08.2004. "Marina price may surpass \$10M." PORT CLINTON NEWS HERALD.  
05.08.2004. "Department of Veterinary Biosciences." 56<sup>th</sup> ANNUAL STATE SCIENCE DAY.  
05.11.2004. "OSU providing \$70,000 for fall theater, arts festival." PORT CLINTON NEWS HERALD.  
05.13.2004. "Corps of Engineers vs. carp: The fight for the Great Lakes." PLAIN DEALER  
05.20.2004. "Engineer reflects on Mars mission." OSU ONCAMPUS  
05.20.2004. "Congressional Testimony." FEDERAL DOCUMENT CLEARINGHOUSE.  
05.21.2004. "Storm scatters walleye." CLEVELAND PLAIN DEALER.  
05.28.2004. "Following the fish: Sheepshead are mostly underrated." TOLEDO BLADE.

#### **June**

06.10.2004. "Marcella L. Robeson Obituary." COLUMBUS DISPATCH.  
06.14.2004. "Two agencies hoping to land walleye license plate." THE PLAIN DEALER.  
06.14.2004. "Two state agencies are angling to lay claim to the Lake Erie walleye." THE PLAIN DEALER.  
06.14.2004. "Walleye Controversy." WSYX TV COLUMBUS OH ABC AFFILIATE.  
06.15.2004. "New view of algae." THE COLUMBUS DISPATCH.  
06.18.2004. "The Bugs are Back." SANDUSKY REGISTER.  
06.19.2004. "Lake Erie communities ready for annual mayfly infestation." TOLEDO BLADE.  
06.22.2004. "Jeff's interview." WCPN-RADIO 9-10:00.  
06.24.2004. "A 'fresh' investment Local farmers test waters of shrimp business." COSHOCTON TRIBUNE.  
06.24.2004. "One-night stand leaves mayflies in a sticky situation." PITTSBURGH TRIBUNE-REVIEW.  
06.24.2004. "United States small business administration Columbus Ohio branch." SBA.GOV.  
June 2004. "Focus on Put-In-Bay, Kelleys Island and Marblehead." NORTH COAST BUS. JOURNAL.  
Summer 2004. "Historic Island Tour Guide." SOUTH BASS ISLAND-HISTORIC TOUR GUIDE.

Summer 2004. "Biocomplexity grant opens window on the big picture." BIOLOGUE.

### **July**

07.09.2004. "New instruments to monitor how Lake Erie dead zone forms." CLEVELAND PLAIN DEALER.  
07.19.2004. "2 coastal grants go to Lake County." THE NEWS-HERALD.  
07.20.2004. "Season getting longer for short-lived, pesky mayflies." PORT CLINTON NEWS HERALD  
07.22.2004. "The Wild Side: A week of birds to remember." STRAITSLAND RESORTER.  
07.30.2004. "Following the fish: Time is right for big flathead catfish." TOLEDO BLADE.  
July 2004. "Regional focus: Lorain County." INSIDE BUSINESS.  
July 2004. "No Swim." INSIDE BUSINESS.  
July 2004. "Ask the Snakelady." PUT-IN-BAY GAZETTE.  
July 2004. "Gentlemen, don't start your engines." PUT-IN-BAY GAZETTE.  
July 2004. "Gibraltar Island history and science tours." PUT-IN-BAY GAZETTE.  
July 2004. "Guest lecture series at Stone Lab on Gibraltar Island." PUT-IN-BAY GAZETTE.

### **August**

08.02.2004. "Engineer to develop system for next Mars mission." OSU TODAY.  
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 AMERICAN FISHERIES SOCIETY  
 ASCRIBE NEWSWIRE  
 ASSOCIATED PRESS  
 BOAT OHIO  
 BUDGET (THE)

BURLINGTON COUNTY (TN) TIMES  
CHARTER CHATTER, LAKE ERIE CHARTER BOAT ASSOCIATION  
CHILlicothe GAZETTE  
CINCINNATI ENQUIRER  
CHRONICLE  
CLEVELAND PLAIN DEALER  
COLUMBUS DISPATCH  
CONGRESSIONAL TESTIMONY  
COSHOCOTON TRIBUNE  
COUNTRY LIVING MAGAZINE  
COURIER TIMES (BUCK CO PA)  
DAYTON DAILY NEWS  
DETROIT NEWS  
EARTHWATCH RADIO  
FEDERAL DOCUMENT CLEARINGHOUSE  
FISHWRAPPER  
FORT COLLINS COLORADOAN  
FREMONT (OH) NEWS-MESSENGER  
GLIN ANNNOUNCE  
GREAT LAKES BASIN REPORT  
GREAT LAKES RADIO CONSORTIUM  
GREAT LAKES SCUTTLEBUT  
INLAND SEAS ANGLER  
INSIDE BUSINES (NE OHIO)  
LAKE ERIE ISLANDS HISTORICAL SOCIETY NEWS  
LAKE ERIE SHORELINES  
LAS VEGAS REVIEW JOURNAL  
LAKE COUNTY BUSINESS JOURNAL  
LAKE COUNTY STORM WATER MANGEMENT  
LEMTA.COM  
LORAIN (OH) MORNING JOURNAL  
LORAINCOUNTY.COM  
MID-AMERICA BOATING  
MIDWEST OUTDOORS  
NORDIC BUSINESS JOURNAL  
NORTHCOAST BUSINESS JOUNAL  
OHIO STATE UNIVERSITY BIOLOGUE  
OHIO STATE UNIVERSITY ENGINEERING  
OHIO STATE UNIVERSITY EXTENSION LAKE COUNTY  
OHIO STATE UNIVERSITY EXTENSION MAGAZINE  
OHIO STATE UNIVERSITY ONCAMPUS  
OHIO STATE UNIVERSITY TODAY EMAIL NEWS  
OHIO STATE UNIVERSITY VETERINARY SCIENCE  
OHIO STEELHEADERS  
OTTAWA COUNTY BEACON  
OUTHERE  
PITTSBURG (PA) TRIBUNE REVIEW  
PORT CLINTON (OH) NEWS-HERALD  
PR NEWSWIRE  
PUT-IN-BAY (OH) GAZETTE  
SANDUSKY (OH) REGISTER  
SBA.GOV  
STRAITSLAND REPORTER (MI)  
TOLEDO (OH) BLADE  
TRUMPETEER  
VINDICATOR

WCPN RADIO  
WEWS NEWS CHANNEL 5 CLEVELAND  
WLW CINCINNATI 700 AM  
WOSU AM 820 PUBLIC RADIO COLUMBUS  
WSYX COLUMBUS ABS AFFILIATE  
ZANESVILLE TIMES RECORDER

## **COLLABORATION AND SPECIAL PROJECTS**

From January 2004–December 2005, Ohio Sea Grant Communications collaborated with other agencies and constituents on several special projects at the state and regional levels.

### **State Legislature/Congressional Day**

In July 2004, Ohio Sea Grant and its private sector advisory committees hosted their largest Annual State Legislature/Congressional Day on Lake Erie. Elected officials and policy-makers, including U.S. Senator George Voinovich, U.S. Representative Marcy Kaptur, Ohio Representative Chris Redfern, and Ohio State University President Karen Holbrook, saw first-hand the beauty of Lake Erie and its importance as one of Ohio's greatest natural resources. Since 1982, Ohio Sea Grant has held this event to communicate the benefits and problems of Lake Erie to state and federal senators and representatives (annually 1982-85 and biennially since 1985). Notable results of this effort include establishing a line item in the State of Ohio's budget for additional financial support for Sea Grant; funding capital improvements at Stone Laboratory; gaining additional funding from the university for facility and infrastructure improvements; and passage of the detergent phosphorus ban in the state legislature. Ohio Sea Grant Communications provides logistical support, displays, promotional materials such as hats, pens, and shirts, and information packets for this event.

### **Ohio Sea Grant Display**

Communications creates 20-foot displays throughout the year for Sea Grant's participation in sport and boat trade shows and educational conferences. Working with Sea Grant Extension, Communications has produced displays covering a variety of issues including: water quality, Areas of Concern, fish advisories, steelhead fishing, and recreation. In 2005, Sea Grant focused on aquatic invasive species, Great Lakes fishing, and the new Clean Marinas and Boater Programs. To accompany a new fish tank exhibit within the display area, Communications produced a fish identification booklet for visitors to use with the display. The Sea Grant 20-foot display offers Sea Grant information to more than 75,000 visitors at the Cleveland Boat Show every year.

### **Stone Laboratory Kiosk Display**

To expand outreach efforts at Stone Laboratory, the Bayview Office received a four-panel outdoor display kiosk in the Summer of 2004. The kiosk was built near South Bass Island's Peach Point where Put-in-Bay visitors frequently pass. The 3x3 foot display panels introduced visitors to Ohio Sea Grant and Stone Laboratory, Stone Lab's Summer Courses and Science Workshop Program, the Lake Erie Dead Zone, and the Friends of Stone Laboratory. The display panels will be replaced periodically throughout the year with timely topics. More than 1.2 million tourists visit the Put-in-Bay area where the Stone Lab kiosk is located.

### **Lake Erie Nature and Science Center Display**

Ohio Sea Grant has had permanent exhibit space at the Lake Erie Nature and Science Center (LENSC) in Bay Village, Ohio since 1999. As part of the Cleveland Metroparks, LENS C offers educational programs and wildlife rehabilitation to students K-12 and adults. Communications work with Sea Grant Extension Agents Dave Kelch and Kelly Riesen, to develop displays at the center. Displays have featured artificial reefs, aquatic invasive species, the Lake Erie food web, the Lake Erie Dead Zone, and sports fishing. Communications also provides related fact sheets and other materials to accompany each exhibit. The LENS C display reaches more than 200,000 visitors every year, including 15,000 students from more than 1000 schools.

### **Sea Grant and FOSL Fundraising and Promotion**

Communications works with the non-profit Friends of Stone Lab (FOSL) Board to develop fundraising materials for its scholarship programs. As part of the annual fundraising promotion, Communications creates brochures, flyers, and postcards for distribution to 2500 FOSL members. Communications promotes FOSL activities, such as the Guest Lecture Series at Stone Lab, the Buckeye Island Hop, and the Winter Program and Silent Auction, to local and university media. In 2005, Web master George Oommen created new FOSL web pages and an on line donation system in cooperation with Ohio State University's e-giving development department. Starting in 2002, Publications Manager Nancy Cruickshank took the lead to oversee the FOSL's newly-created Silent Auction fundraiser. In addition to soliciting for donations from local vendors, she organized and publicized the event.

### **Ohio Clean Marinas and Boater Programs**

As a partnered effort with divisions of Ohio Department of Natural Resources, LEMTA, and other state agencies, Ohio Sea Grant developed and launched the Ohio Clean Marinas and Clean Boater Programs in September 2004. Besides being the media contact lead, Communications developed two web sites, logos, educational displays, instructional materials, and promotional stickers and flags for both programs. The web sites house all program materials, including the *Marinas Guidebook* and appendices, program brochures, and pledge information. In early 2005, Communications added an on line pledge option for boaters who desired to become clean boaters. Communications maintains the searchable record of all pledged boaters.

### **One-Click Donation Web Page**

In late 2004, Communications partnered with Ohio State University's Development Department to create a one-click donation web page. As one of the first university departmental sites to directly link to the University's e-giving services, the web page allows donors to select Sea Grant and Stone Lab endowments by way of a drop-down list.

### **Great Lakes Fishery Leadership Institute**

Ohio Sea Grant conducted its first Great Lakes Fishery Leadership Institute to promote fisheries leadership education and reduce conflict with fish managers in 2003. Communications worked with Ohio Sea Grant Extension to create a technical summary documenting the Great Lakes Sea Grant Network's comprehensive survey of the Great Lakes charter fishing industry along with separate summaries for each Great Lake state.

### **2004 Ohio Sea Grant Calendar**

In 2003, Communications produced "*Ohio's Premier Sport Fish in Lake Erie*" calendar to provide a unique opportunity to educate anglers and the general public about the importance of selected fish species to Ohio, and offer facts, tips, and hints for catching these species. The calendar featured Ohio Sea Grant's web site address and information about the Discussion Board. The 6,000 *Twine Line* readers received a calendar within their Nov/Dec 2003 issue. The remaining copies were distributed at the Cleveland-area boat and sport shows, and other events.

### **Lake Erie Education Poster Series**

Sea Grant Communications with the assistance of Extension produced a series of four Lake Erie education posters in 2004 for educators. They presented the basic concepts of the Lake Erie Dead Zone; Lake Erie fish identification and anatomy; and the lake food web. Each was designed to address specific Grade-Level Indicators of the Ohio Academic Content Standards for Life Sciences for grades K-12. These posters were given free to all teachers who participated in the



Stone Lab Science Workshop Program or attended educator conferences or Sea Grant shows (focusing specifically to teachers in K-12 education in Ohio and surrounding Great Lakes).

### **Eco-History Island Passport**

More than 1.2 million people visit the Put-in-Bay, Ohio area, on Lake Erie every year. Popular tourist sites around the area include Perry's Monument, the Lake Erie Islands Historical Society (LEIHS), the Aquatic Education Center, and South Bass Island Lighthouse. In an effort to increase education about the history and ecology of the Put-in-Bay area and ultimately increase tourism, Stone Lab Manager John Hageman and Communications developed the *Eco-History Island Passport*, an informational booklet and ticket system that allowed a visitor to tour five venues for one price.

Mirrored after Chicago's successful museum *City Pass*, tourists are able to visit all the major Put-in-Bay attractions (Perry's Monument, Aquatic Education Center, South Bass Island Lighthouse, and the Lake Erie Islands Historical Society) with just the purchase of one ticket. The goal is to increase attendance at the venues because of the one-ticket convenience and capitalize on consolidated marketing of the program.

Communications took the lead to partner with the National Park Service, LEIHS, ODNR Wildlife, and Ohio State University's Office of Student Affairs. The passport contains general information, pictures, and calendar events of each site and serves as a take-home piece for the participants. Like a true passport, visitors receive a stamp in their passport at each venue they see.

### **2004 Great Lakes Network Conference**

Ohio Sea Grant hosted the year's regional Sea Grant network meeting at Stone Laboratory in September 2004. Communications created a new logo for the conference, network t-shirt, and bag, along with conference materials and a web page with on line registration.

### **Stone Laboratory New Promotional Campaign**

Communications works with Stone Lab staff and Sea Grant Education to develop the Stone Laboratory annual promotional campaign for its Summer College Program, Science Workshop Program, and Research and Conference facilities. Beginning in late summer/early fall of each year, Communications builds the new campaign which traditionally consists of a 12-page color brochure, a tri-fold flier, course brochure, and poster, for the next year's (summer) program. To increase student enrollment, Communications developed an aggressive strategy to add longevity to the campaign in 2004. New promotional materials included full-color pocket calendars, bookmarks, reminder postcards, and posters—each to be delivered at different times of the campaign year in an effort to continue public awareness of the program. Note: All promotional materials included the new Stone Lab campaign logo along with the [www.stonelab.ohio-state.edu](http://www.stonelab.ohio-state.edu) web site for program questions. The new campaign received several awards, including two APEX awards for marketing, two ACE Gold and Bronze Awards for the direct mailers and web site, and the People's Blue Choice Award at 2005's national Sea Grant conference. The campaign consisted of:

- *Pocket Calendars*: 10,000 pocket calendars to be sent to 6000 Ohio State dorm residents, attendants of Stone Lab information sessions, career expos, and teaching conferences, along with all major Ohio State department offices in late December.
- *Bookmarks*: 2000 bookmarks to be given to all Spring 2005 Science Workshop participants.
- *Reminder Postcards*: 4000 reminder postcards will be sent to all Ohio State education and science majors in February 2005.

- *Posters:* 2000 full-color posters were sent to all Stone Lab faculty, Ohio State department and library bulletin boards, and Ohio High School guidance counselors for posting in December.
- *Bus Posters:* Four posters throughout the school year were placed in the Ohio State bus system (60 buses) starting in Fall 2004. These posters highlighted Stone Lab information sessions on campus along with job and scholarship deadlines.
- *Course Flier Series:* Seven summer courses were highlighted in an 8.5 x 10 inch flier series which would be posted at key Ohio State science and education buildings and distributed to Stone Lab faculty teaching the courses in January 2005. These courses were deemed as ‘high risk’ to be canceled due to previous years’ enrollment numbers.
- *Advertisements:* Two ads in the Academy Journal of Science and Ohio State Biological Science Journal. A new flash ad campaign will be developed to market to all Ohio State science and education majors.
- *Stone Lab Table Top Display:* New design to incorporate current “Explore Science and Discover Yourself” promotional tagline and Stone Lab logo. Display will be used for all career days, conferences, and informational sessions Stone Lab staff members oversee.

# **Appendix E**

## **Extension**

**Accomplishments 2004 & 2005**

**Activities 2004 & 2005**

## All Ohio Sea Grant Agents 1<sup>ST</sup>, 2<sup>ND</sup>, 3<sup>RD</sup> and 4<sup>TH</sup> QTR 2004 Accomplishments

### I. Economic Leadership

#### A. Advanced Technology for Commercial Products and Processes

#### B. Seafood Production

#### C. Coastal Economic Development;

##### 1. Coastal Business Development

###### - Fishing

Hageman provided weekly ice updates that included ice conditions and fishing reports from the Bass Islands, the primary ice-fishing venue on Lake Erie. These reports were sent to the press and to Ohio Division of Wildlife personnel. The ODNR incorporated Hageman's reports into their weekly fishing updates distributed on their web site. At the end of the ice-fishing season, the fisheries biologist responsible for the official ODNR Lake Erie weekly fishing report and the supervisor of the Lake Erie fisheries research station each thanked Mr. Hageman for the timeliness and accuracy of his updates as an asset to the ODNR mission to promote the winter fishery. (Jan-Mar 2004)

Lake Erie Steelhead Angling Seminars offered at two locations taught 190 clientele more about Lake Erie steelhead and how/where to take advantage of fall, winter and spring stream angling opportunities. (Kelch, Feb-Mar 2004)

Over 150 licensed Ohio charter boat captains gained knowledge and skills to improve their business operations at the Annual Ohio Charter Captains Conference, organized by Snyder. Industry response to this outreach effort has been positive; the conference is in its 23<sup>rd</sup> year with annual attendances ranging from 140 to 270 licensed captains. Among captains attending over the last five years, 66% report increased profits by using conference information. Operating practices were modified by 84 % of attendees and 95% said they use conference information in some aspect of their businesses. (Mar 2004)

Sixty-eight Port Clinton elementary students learned fishing skills and outdoor ethics at two "Hooked on Fishing, Not Drugs" seminars conducted by Snyder. (May 2004)

Two papers, "The 2002 Great Lakes Charter Captains Survey" (F. Lichtkoppler, D. Kuehn and C. Pistis) and "Evaluation of Ohio's Lake Erie Tributary Steelhead Anglers, 2002-2003" (D. Kelch, F. Lichtkoppler and B. Sohngen) were presented by Lichtkoppler at the International Association of Great Lakes Research 2004 Conference, May 24-28 at the University of Waterloo, Waterloo, Ontario, Canada.

Following successful acquisition of funding under National Sea Grant's "Fisheries Extension Enhancement" program, Ohio Sea Grant hired a new Fisheries Extension Program Coordinator, Kelly Riesen. Riesen will develop and deliver educational programs in fisheries, sport fishing and aquatic science, and strengthen fisheries education ties among Great Lakes federal and state agencies and private organizations. (Reutter, Kelch, Snyder, Hageman, & Lichtkoppler, Jul 2004)

Kelch is the immediate supervisor and mentor for the new Fisheries Extension Program Coordinator, Kelly Riesen. As such, Kelch has initiated new extension agent training, orientation, and coordination of educational programs for the new coordinator. Kelch has assisted in the development of current educational programs being used by the coordinator, and has mentored the coordinator on numerous educational program activities (Jul-Dec 2004).

The paper, "Strengthening Ohio's Charter Fishing Industry Through Extension Education" by F. Snyder was presented at the symposium, "Socio-Economics and Extension: Empowering People in Fisheries Conservation" at the American Fisheries Society, 134<sup>th</sup> Annual Meeting, 22-26 August 2004, in Madison, WI.

The paper, "Socio-Economic Evaluation of Ohio's Lake Erie Tributary Steelhead Anglers, 2002-2003" by D. Kelch, F. Lichtkoppler and B. Sohngen, was presented by Kelch at the symposium, "Socio-Economics and Extension: Empowering People in Fisheries Conservation" at the American Fisheries Society (AFS) 134<sup>th</sup> Annual Meeting, August 22-26, 2004 in Madison, WI.

The paper, "Aquatic Invasive Species Impacts Upon the Lake Erie Sport Fishery" was presented by F. Snyder at the 13<sup>th</sup> International Conference on Aquatic Invasive Species. 20-24 September 2004, Ennis, Ireland.

Over 100 citizens learned more about Lake Erie issues, fisheries and Ohio Sea Grant as Riesen responded to participant questions at the Ohio Sea Grant display at the Rocky River Watershed Festival and the Ohio Central Basin Steelhead Conclave. (Sep 2004)

Sixty-five anglers from various local sportfishing clubs, including Woods and Waters Sports Club and West Cleveland Sports Club learned more about Lake Erie issues and ecology topics at presentations made by Kelch and Riesen. (Oct./Nov. 2004).

Seventy steelhead anglers learned more about Lake Erie tributary steelhead fishing at an educational Steelhead Angling Seminar coordinated by Riesen at the Lake Erie Nature and Science Center. (Nov. 2004).

Over 250 participants learned more about Lake Erie angling and Lake Erie at four workshops conducted by Kelch. These educational programs continue to support the National Sea Grant Program's effort to increase teaching efforts regarding sport angling (Oct- Dec 2004)

The paper, The Great Lakes Charter Fishing Industry: 1973 to 2002, by Diane Kuehn, Frank Lichtkoppler and Chuck Pistis was accepted for publication in the March 2005 issue of FISHERIES, the Monthly News Magazine of the American Fisheries Society.

#### **- Coastal Recreation**

Twenty two Lake Erie tourism professionals learned about changes in Lake Erie water levels, the state of the fishery, new fishing regulations and the Lake Erie Dead Zone during a

presentation by Lucente and John Hageman, OSU Sea Grant Lab Manager, at the Lake Erie Coastal Ohio meeting at Maumee Bay State Park in Oregon, OH. (Mar 2004)

Kelch helped develop a detailed 2004 Lake Erie fisheries informational calendar highlighting educational information and angling tips for 12 popular Lake Erie fish species. Over 10,000 calendars were distributed to 6,000+ Twinline subscribers and to anglers at 2004 Sea Grant educational events and activities. (Kelch, Hageman, Reutter, Banicki, and Hayter, Mar 2004)

During the March Governor's Submerged Lands Advisory Council (SLAC) meeting, the specialist was elected to the position of committee vice chair by his peers. This council advises the Ohio Department of Natural Resources (ODNR) in issues regarding submerged lands. (Kelch, Mar 2004)

In less than three years, the Lake Erie Coastal Ohio, Inc. project has grown from an idea born of the seven coastal Ohio tourism bureaus' need to market the Lake Erie adventure into a rapidly maturing cooperative coastal tourism marketing effort including a web site, monthly directors newsletter, innovative public service announcements, key market research, and even an application for State of Ohio scenic byway designation. Snyder and Lichtkoppler serve on the LECO, Inc. Board of Directors. Lichtkoppler acts as secretary to the board and serves on the Executive Committee of the LECO, Inc. (Sep 2004)

#### **- Marine Trades**

Development of Ohio's new Clean Boater Program (CBP) and Clean Marina Program (CMP) is being led by Ohio Sea Grant with funding from NOAA. Stakeholder meetings have built program support and initiated development of the Best Management Practices Guidebook for the CMP. Cooperating agencies/organizations include the Ohio Department of Natural Resources, Divisions of Watercraft, Coastal Zone Management, and Wildlife, Ohio EPA, and the Lake Erie Marine Trades Association. (Hushak and Kelch, April-June, 2004)

The OCMP Best Management Practices Manual was completed. This 155 page document will serve as the guidebook for clean marina status. (Hushak, Reutter, Kelch, et al., Jul-Aug 2004)

Information on the Clean Marina and Clean Boater Programs including the OCMP manual is now on-line (<http://www.sg.ohio-state.edu/cleanmarina/>). Kelch has been appointed to lead the Ohio Clean Marina Program after December 1, 2004, with Dr. Leroy Hushak maintaining the lead for the Ohio Clean Boater Program. Both programs have NOAA funding through 2006, with the ODNR Coastal Management Program indicating continued funding of both programs after 2006. (Hushak, Reutter, Kelch, et al. Sep 2004)

Thousands of individuals learned more about clean boating practices at the Ohio Sea Grant display on Ohio's new Clean Boater and Clean Marina Programs. Over 250 individuals signed the clean boater pledge ledger at the Lake Erie Marine Trades Association's In-Water Boat Show, held September 15-19, 2004 at the Cedar Point Marina. (Hushak, Kelch, Reutter, and Riesen)

Eight marinas signed the pledge to become clean marinas at the official beginning of the Ohio Clean Boater (OCBP) and Clean Marina (OCMP) Programs September 18, 2004 during the Lake Erie Marine Trades Association (LEMTA) In-Water Boat Show. Officials from Ohio Sea Grant, Ohio Department of Natural Resources, LEMTA, and Ohio EPA presided over the kick-off ceremony, with Dr. Sam Speck, Director of the Ohio Department of Natural Resources making the official dedication. (Hushak, Reutter, Kelch, et al.)

An additional 11 marinas signed the clean marina pledge at two Clean Marina Workshops held in November 2004. Ohio has a total of 19 marinas signed up for the Clean Marina program. (Kelch, Hushak & Reutter)

## **2. Coastal Community Development**

Seventeen Extension professionals learned how to conduct local government leadership development training for public officials at Ohio State University's Urban Program Conversation in Columbus, OH and the West District Lead Programs In Community Development In-Service in Findlay, OH during presentations by Lucente entitled "Toledo Local Government Leadership Academy- Building Partnerships For Success in An Urban Setting" and "Local Government Leadership Training". (Lucente, Jan and Feb 2004)

Six Extension professionals learned how to conduct a tourism, service and retail based business retention and expansion program utilizing Lucente's case study of "Business Retention and Expansion in Ottawa County" at the Lead Programs In Community Development In-Service in Findlay, Ohio. As a result, Ottawa County was able to identify existing businesses looking to expand with the potential to create an additional 199 new jobs in an Ohio coastal community. (Lucente, Feb 2004)

Lucente formed a partnership with the Toledo Area Chamber of Commerce and The Ohio State University Extension Service to develop the Toledo Local Government Leadership Academy. Lucente and Dr. Donald Lacy created a leadership development curriculum that focused on duties and responsibilities of elected officials, ethics of public officials, leadership skills and related topics. Since its initial offering in 2001, 56 people have graduated from the academy and surveys conducted indicate an 86% overall increase in knowledge from 2001-2004. (Lucente and Lacy, Jan-Mar 2004)

Williams was responsible for the calls made at the National Manufacturing Week show in Chicago February 2004. Three economic development specialists made 134 calls on businesses located in Northeast Ohio at this show. The team identified three expansion projects and four companies needing financing for equipment purchases.

Williams organized a team of development professionals to attend the Society of Automotive Trade Show March 7-11, 2004 to call on local companies from Northeast Ohio. This team identified 17 companies in Northeast Ohio needing assistance. (Mar 2004)

Williams is working with the Port of Cleveland to assist Northeast Health Services build a new facility and aid Superior Products with their facility expansion. Superior plans on adding 80,000 sq ft. to their existing facility. After completion the company will add 20-30

new manufacturing jobs. (Mar 2004)

Ohio Sea Grant partnered with The University of Toledo, Bowling Green State University, The Ohio State University, The Ohio Business Retention & Expansion Initiative, and the Toledo Botanical Garden to conduct a business retention and expansion survey of over 50 Greenhouse Industry participants in six northwest Ohio counties. This study, funded by the efforts of Senator Mike DeWine and Representative Marcy Kaptur, will lead to future research and technology funding that can help the Ohio green industry (Lucente, Nov. 2003-Apr. 2004).

Over seventy 70 economic development specialists learned more about community development at the Northeast Ohio Economic Development Summit. The summit provided tools and resources for local economic development organizations to work together to improve the economy in Northeast Ohio. OSU Extension community development specialists, Myra Moss, John Congloss and Bill Grunkemeyer, presented papers at the summit. Evaluation and feedback was positive, with the majority of those attending saying that they will attend the next event arranged for the Economic Development Network. (McLung and Williams, May 2004)

Thirty-three extension and other community and economic development professionals learned about evaluating a local government leadership program by using an SPSS database as Lucente presented "*Leadership Development For Local Government Officials and Utilizing A Retrospective Pre-Post Test Methodology*" and another twenty-eight learned about making partnerships and conducting a local government leadership curriculum geared toward local decision makers as Lucente presented "*Establishing A Community Leadership Network To Improve Public Sector Decision Making*" at the National Southern Community Development Association Conference in Tampa, Florida May 18-20, 2004.

Fifty-eight Extension and other community and economic development professionals learned about making partnerships and conducting a local government leadership curriculum geared toward local decision makers as Lucente presented a poster session titled "*A Retrospective Evaluation of the Impact of Leadership Training on Participants*" at the International Community Development Society Conference in Cleveland, Ohio May 18-21, 2004.

Williams organized a deal team consisting of representatives from the State of Ohio, First Energy, Lorain Chamber of Commerce, the Port of Cleveland, State Representative Earl Martin and Team NEO. Each deal team member was given a specific task to assist Bendix Commercial Vehicle Systems in its business expansion including seeking \$12 million in grants and loans to enhance its research and development divisions. (Jun 2004)

Williams' electronic web based Business Retention Surveys are being conducted in: Valley View, Independence, Solon, and Cleveland Wards, 1, 3, 5 and 8. These surveys have identified 37 companies needing assistance expanding their business and obtaining financing for future equipment purchases. (Jun 2004.)



Twenty Extension and leadership development professionals learned about evaluating a local government leadership program by using an SPSS database to analyze a three year leadership development class as Lucente and Dr. Donald Lacy, OSU Extension, Community Development presented “*Evaluating Leadership Development For Public Officials Using Retrospective Pretest Methodology*” at the International Association of Leadership Educators Conference in Memphis, Tennessee July 15-17, 2004.

A total of 185 citizens responded to an on-line electronic strategic planning survey for the Ohio Sea Grant College Program. The survey asked the public for their opinions on Great Lakes and Lake Erie Issues. The data was included as part of Ohio Sea Grant’s contribution to the a Great Lakes Commission’s Great Lakes priorities project. (Williams and Lichtkoppler, Jan-Sep 2004).

Williams worked with over 270 companies providing economic data, financial assistance and business expertise that helped 19 of the companies move forward on business expansion and retention projects. Williams provided information on how to navigate their projects through the City of Cleveland’s and the State of Ohio approval process. In addition, Williams provided instructions on how to structure their projects to receive assistance for the State of Ohio and City of Cleveland. Companies are listed below under New Jobs & Investments (Jan-Dec 2004)

New Jobs & Investments as a result of Williams’s business R&E efforts in 2004 include:

Company	Investments	New Jobs
Yard Metal	\$1.875Million	0
The Tile Shop	\$1.5Million	5
PODS	\$2.5Million	4
Superior Products	\$2M	25
Gutter/Shutter Company	\$150,000	15
American Mine door	\$200,000	4
Terrell Mfg. Co.	\$350,000	17
McTech	\$1.25Million	4
Tomco	\$225,000	0
Garfield Alloys	\$2.5Million	37
American metal Coating	\$1.75Million	13
Rose Metal	\$200,000	3
Bendix		
Cresthaven Development	\$2.4Million	
Interstate McBee	\$1.2Million	10
Rosby Resources		
Alum. Precision Products		
Ozanne Construction		
New Era Construction		
Totals	\$18.1 Million	137

Williams participated as part of the Ohio delegation to the International Machine Trade Show September 8-17, 2004. Development professionals called on Ohio based companies to identify companies intending on expanding facilities or employment. Fifteen companies were identified as meeting one or more of the above criteria. (Sep 2004)

27 national educators and leadership development professionals learned about evaluating a local government leadership program by using an SPSS database to analyze a three year Extension, Community Development presented "*Evaluating Impact of Extension Leadership Programming: A Three Year Study Using the Retrospective Pretest Methodology*" at the National Mid-Western Educational Research Association conference in Columbus, Ohio during October 13-16, 2004. (Lucente, Davis and Lacy, October 13-16, 2004).

In cooperation with the Northeast Neighborhood Development Corporation, 15 entrepreneurs participated in Williams' Fundamental Business Principles course. During 16 evening classes and numerous post course individual meetings participants learned how to build a business plan and actually developed business plans that will allow them to pursue financing or increase operating efficiency. (Dec 2004, Williams)

Williams was asked to work with Shorebank Enterprise to identify east side companies needing assistance and work with the City of Cleveland's Economic Development Department to guild a business expansion and development project through the department approval process and to get the project on the agenda of City Council for approval. We have identified 37 constructions firms, 84 metal working firms, and 17 health care firms to contact. As of December 31, 2004 seventeen companies have requested meetings. When projects are completed, new investments of \$8M and a total of 250 mew jobs will be created. (Williams)

### **3. Revitalize Marine Infrastructure**

The Port Clinton Mayor's Core Group, assembled to initiate development of a large transient municipal marina, approved a final design plan to submit to government and private funding sources during the spring and has now received commitments for \$9.5 million in funding from these sources. Ohio Sea Grant Extension initiated this project through meetings brokered between the Port Clinton Mayor's Office and the Ohio Dept. of Natural Resources. Snyder is a Core Group member, providing advice and planning assistance in water quality and sediment issues, and boating and fishing industry concerns. (Jan-Sep 2004)

After a decade of partnering with the USACE, US EPA, Ohio EPA, local citizens, marine businesses, township, city, county and state government, industry, Ohio Sea Grant and others the Final Comprehensive Management Plan (Feasibility Report) and Environmental Impact Statement for the Ashtabula River Environmental Dredging Project was approved by the Assistant Secretary of the Army (Civil Works). The Ashtabula River Partnership can now proceed on to final design and implementation of the long sought clean-up of contaminated sediments from the lower Ashtabula River and Harbor. (Lichtkoppler, et al., Sep 2004)

## **II. Coastal Ecosystem Health and Public Safety**

## **A. Coastal Ecosystem Health**

### **1. Coastal Ecosystems**

Over 10 tons of trash have been removed from the Put-in-Bay public dock area since the inception of Ohio's first underwater clean up founded by Mr. Hageman in 1992 using SCUBA divers and land volunteers. He also arranges for local vendors to provide refreshments, door prizes and transportation for all of the participants.

Through Mr. Hageman's leadership, the Ohio Department of Transportation (O.D.O.T.), the Ohio Division of Wildlife and Ohio's Pheasants Forever State Council have pledged a partnership to re-establish native prairie plant species along O.D.O.T.-maintained road right-of-ways. This, along with delayed mowing until after the spring nesting season, will benefit some 40 species of upland wildlife, reduce non-point source pollution entering the Lake Erie watershed, and save O.D.O.T. and Ohio's taxpayers hundreds of thousands of dollars annually. (Jun 2004)

Snyder, F.L. 2004. Aquatic invasive species in Lake Erie: pathways and impacts. Powerpoint multimedia presentation, Ohio Sea Grant Extension, Port Clinton, Ohio. This onscreen presentation was developed for use by educators and has been implemented into Lucas Co., Ohio public schools and into the Great Lakes Sea Grant Network.

### **2. Coastal and Great Lakes Habitats**

The Pet Industry Joint Advisory Council (PIJAC), the US Fish and Wildlife Service and the NOAA Sea Grant Great Lakes Sea Grant Network united to create a new "Habitattitude"<sup>TM</sup> on Aquatic Invasive Species as they launched a new public education and outreach effort at the Super ZOO Pet Trade Show in Las Vegas, NV September 23, 2004. Habitattitude<sup>TM</sup> encourages consumers to help avoid unwanted introductions of non-native species by adopting simple prevention steps when faced with unwanted fish or aquatic plants. (Meyers PIJAC, Starinchak US FWS, Jensen MN SG, Lichtkoppler OH SG, et al.)

### **3. Sustainable Development**

Ohio Sea Grant partnered with the Great Lakes Commission and a dozen other organizations to produce the, "Actions Towards a Sustainable Great Lakes" Conference May 5 and 6, 2004 in Cleveland Ohio. Over 150 participants from eight Great Lakes states and Canada discussed ways to implement sustainable growth ideas in the Great Lakes Basin. Conference proceedings are in press. (Reutter, Lichtkoppler, et al.)

Over 20 citizens participated in the information session and Section 401 Water Quality Certification public hearing on the Heisley Park Subdivision (phases 4-10) conducted by the Ohio EPA. Numerous citizens including the president of the Mentor Marsh Board of management spoke up using data supplied by Lichtkoppler concerning wetland loss in this 205 acre development impacting two tributaries draining into Mentor Marsh State Nature Preserve. (Jun 2004)

In 2000, Ohio Sea Grant was one of a dozen founding members of the Mentor Area Regional Coalition (MARC). In June 2004, the MARC completed the development of the Mentor

Marsh Area Special Area Management Plan (SAMP). The SAMP is a locally developed comprehensive plan that establishes: (1) natural resource protection; (2) reasonable coastal-dependent economic growth; (3) statements of policies; (4) standards and criteria to guide public and private uses of lands and waters; and, (5) mechanisms for implementation under the *Federal Coastal Zone Management Act of 1972, 16 U.S.C.A. Section 1453 (17)*. This is the first SAMP to be developed in Ohio. The ongoing MARC has established operational guidelines and is now actively working to implement the SAMP. (Lichtkoppler, et al.)

Fifty-five watershed resource professionals learned about the Lake Erie Balanced Growth Initiative as Lucente provided a presentation on current initiative undertakings and progress at the Ohio Watershed Leaders Annual Conference at Cuyahoga Valley National Park in Cleveland, Ohio on August 26, 2004.

Blaine, T.W., and F. R. Lichtkoppler. 2004. Willingness to pay for green space preservation: A comparison of Soil and Water Conservation District clientele and the general public using the contingent valuation method. *Journal of Soil and Water Conservation* 59 (5) 203-208.

Almost 1,900 Lake County voters were surveyed for their attitudes, opinions and willingness to pay for curbside recycling in November and December of 2004 with a response rate of over 51%. Results of the survey will be used by the Lake County Solid Waste Board to help plan the future of curbside recycling in the county. (Lichtkoppler, Zondag et al.)

Twelve Great Lakes Sea Grant Coastal Community Development Specialists learned about the Lake Erie Balanced Growth Initiative as Lucente provided a presentation on current initiative undertakings and progress at the Great Lakes Sea Grant Coastal Community Development Retreat in New Buffalo, MI during December 6-8, 2004. (Lucente, Dec. 2004).

Lucente authored two fact sheets titled “*Change in Population Densities in Priority Development Areas*” and “*Change in Average Commuting Distance To Work For People Living in Priority Development Areas Versus Entire Watershed*” as he worked with the Ohio Balanced Growth Roundtable Steering Committee to develop indicators of sustainability for the Ohio Lake Erie Balanced Growth Initiative. (Dec. 2004)

## **B. Public Safety**

### **1. Coastal Hazards**

### **2. Safety at Sea**

## **III. Education and Human Resources**

### **A. Provide a Technically Trained Workforce**

#### **1. Scientists and Engineers**

The associate professor completed his service on the Director’s Advisory Council; an appointed position from Dr. Keith Smith, Director, OSU Extension. The committee assists the director in decision making, recommendations regarding OSU Extension faculty and staff, cost recovery and budget issues, and helps to keep Dr. Smith informed of current issues and concerns. (Kelch, Nov 2004)

Thirty-eight scientists, agency officials and citizens learned more about avian botulism at the Botulism in Lake Erie Workshop at Presque Isle, PA on March 24, 2004 co-sponsored by the NY, PA and OH Sea Grant programs. Over 96% of 31 post program survey respondents agreed or strongly agreed that they gained new knowledge from the workshop. Over 76% of responding participants who had attended either the 2001, 2002 and/or 2003 botulism workshops reported that they have shared the information with sport fishing groups, friends, agency officials, co-workers, researchers, toxicology students, non-profit groups and the general public. About 56% of previous workshop participants have taken action as a result of the workshops including: planned and executed a research project, collected samples for researchers, or wrote several informational articles on the topic. (Obert, PA; Domske, NY; & Lichtkoppler, OH)

Kelch, as the N/E Extension District representative to the OSU Ag/Natural Resources Faculty Council, lead the Council in a successful effort to secure University Senate recognition of OSU Extension faculty with full University Senate voting and representation rights. This effort was approved at the April 2004 University Senate meeting. Kelch completed his three year Faculty Council appointment in April, 2004.

Ohio Sea Grant hosted the 2004 Great Lakes Sea Grant Network Conference September 12 - 15, 2004 at Stone Laboratory, Put-In-Bay, Ohio. Over 80 participants representing nine Sea Grant programs and several federal and state agencies developed a template for improving outreach education through communication and cooperation among the agencies and Sea Grant. Participants rated most parts of the program as excellent or very good. The Sea Grant Director's Panel and the program updates were mentioned as some of the most useful parts of the conference. Networking with colleagues was most often mentioned as the most valuable part of the conference. Snyder led a committee of Great Lakes Sea Grant representatives from each program in planning the conference. (Snyder, Hageman, Reutter, Kelch, Riesen, Lucente, Lichtkoppler, Braig, Alysworth, Jentes-Banicki, et al.)

Snyder represented Ohio Sea Grant on the Ohio Lake Erie Commission's Large Grants Proposal Review, held at Old Woman Creek. Over \$276,000 was awarded to eight organizations to address research needs in the Lake Erie basin. (Sep 2004)

Kelch chaired the North Extension District Faculty P&T Committee and mentored four OSU Extension faculty applying for promotion and tenure. (Kelch, May-Oct 2004)

Seventeen faculty dossiers were evaluated by the College of Food, Agriculture and Environmental Science (FAES) Promotion and Tenure Committee for recommendations to the Dean and Vice President of the College of FAES on promotion and tenure within the college. (Lichtkoppler, Dec 7 & 8, 2004)

## **2. Resource Managers**

Ohio Sea Grant Extension participated in national program decisions and issue prioritization at the Sea Grant Assembly of Program Leaders Meeting in Georgia. (Snyder, Apr 2004)

### **3. Technical Training**

Twenty-two biology students at Bowling Green State University gained knowledge of aquatic invasive species pathways and impacts through a guest lecture given at the BGSU Firelands campus. (Snyder, Mar 2004)

Twenty-six biology students at Bowling Green State University learned about Lake Erie's Dead Zone and anoxic hypolimnion impacts through a guest lecture given at the BGSU Firelands campus on March 20, 2004. (Kelch)

Twenty-six Ontario live bait dealers received certification in ANS-HACCP procedures to eliminate ANS dispersal through bait shipments at a training workshop held in Sudbury, Ontario. This program was funded by the Bait Association of Ontario, the Ontario Ministry of Natural Resources, and taught by Snyder and Domske (NYSG). (Jun 2004)

The mission of the PET program is to teach manufacturing job-training skills to unemployed and underemployed residents of Cuyahoga County. Sixty students were accepted to participate in the Pre Employment Training Program in 2004. Students were taught and required to prepare a personal budget. In addition students were taught and required to establish financial goals. Thirty-four of the original students completed the entire six weeks course in 2004. Students are now eligible for entry level manufacturing jobs. Williams has provided 27 hours of classroom instruction each time the program is offered in the following subject areas: Money Management, Introduction to Computers, Effective Team Building. (J. Eland, J. Strauss & W. Williams, Dec 2004)

## **B. Assure an Environmentally and Scientifically Informed Citizenry**

### **1. Pre-college Education**

Sixty seven Midview High School biology students learned about Lake Erie's Dead Zone during a presentation by the associate professor. Seventeen students in the BGSU Firelands campus Biology 101 class learned about Lake Erie's Dead Zone through a power-point presentation given by the associate professor. (Kelch, Mar 2004)

Over 90 youth in grades 4 to 7 learned more about aquatic invasive species in the Great Lakes at the Ashtabula Waterways Symposium held May 11 and 12, 2004. (Lichtkoppler)

Some 5,400 elementary, junior high, senior high and college students and adults were introduced to Lake Erie's ecosystem through the Aquatic Science Workshop Program and other educational programs at Stone Laboratory in 2004. Since 2000, over 27,000 school kids and adults have participated in Stone Laboratory's aquatic science workshop program. Activities include a hands-on limnological science cruise, plankton and fish identification lab sessions, an invertebrate walk for biological indicators, bird hikes, insect lab sessions and an exotic species (AIS) slide show. (Hageman)

### **2. Informal Education**

Mass audiences gained knowledge of Lake Erie's aquatic ecosystem and coastal issues through a series of eight newspaper interviews (Pittsburgh PA, Sandusky, Toledo, Lorain,

Port Clinton, Fremont OH), a one-hour radio call-in show (Cleveland), and two statewide and one national magazine interview. (Snyder, Jan-Mar 2004)

Thousands of individuals learned more about Lake Erie during the ten day Mid-American Sail and Power Boat Show (January) and the nine-day American/Canadian Sport, Travel and Outdoor Recreation Show (March). Both events are held in Cleveland, Ohio. Sea Grant specialists and advisory committee volunteers, provide hundreds of clientele with new knowledge about Lake Erie issues and opportunities. Over 5,000 educational fact sheets are distributed at these events. (Kelch, Lichtkoppler, Snyder, Lucente, Williams, Hageman, 2004)

Over 750 participants learned about Lake Erie's Dead Zone, steelhead trout biology and angling opportunity, fish consumption safety and Lake Erie fishery principles /management at 21 educational presentations made by Kelch. He was a featured, event advertised seminar speaker during the 2004 Mid-American Boat Show, with fourteen formal presentations given. The topics taught were "Lake Erie's Dead Zone", and "Lake Erie Fish: Safe For Consumption". (Jan-Mar 2004)

Two radio interviews reached thousand of individuals with new information about Lake Erie's Dead Zone, steelhead angling and fish consumption safety. An interview conducted for WCOL Radio was aired on WCOL's Buckeye Sportsman to 17 affiliate stations throughout Ohio and West Virginia. The topics for this interview were Lake Erie Steelhead Angling and Lake Erie Fish Consumption Safety. (Kelch, Mar 2004)

Forty nine farm pond owners gained skills in water quality and fish management at Farm Pond Clinics conducted in Fulton and Lucas Counties. (Snyder, Apr 2004)

Over 170 pond owners from Lorain and Medina counties learned more about weed control, fish stocking, aquatic nuisance species, and pond ecology during a pond seminar at the Lorain County Extension Facility and an invited presentation at Landmark Coop's fish day in Grafton, Ohio (Kelch, May-Jun 2004)

Seventy five youth learned more about Lake Erie during educational sessions taught by Kelch and others during the 21<sup>st</sup> Annual Ohio 4-H Sea Camp, June 27-July 2, 2004, at the Kelleys Island 4-H Camp. Educational topics included aquatic biology, fish handling and preparation, shipwrecks, snorkeling, aquatic nuisance species, angling techniques, boat handling, sailing, GPS navigation and traditional 4-H camp activities. The original Sea Camp concept was developed by Ohio Sea Grant specialists in 1984, with over 1,700 youth learning more about Lake Erie over the past 21 years. (Jun 2004)

US Senator George Voinovich, US Congresswoman Marcy Kaptur, other legislators and their representatives from two U.S. Senate offices, seven U.S. House offices, three Ohio Senate offices and twelve Ohio House offices joined Ohio Sea Grant and Ohio State University administrators and personnel, Ohio Sea Grant advisory committee members, volunteer boat captains and guests for the 15<sup>th</sup> Congressional/Legislature Day on Lake Erie, July 16, 2004. This program highlights the accomplishments of Ohio Sea Grant and

illustrates the values and needs of the Lake Erie region to elected officials. It likewise strengthens relationships between elected officials and the University. (Reutter, Hageman, Snyder, Jentes-Banicki, Kelch, Lichtkoppler, Lucente, Williams and Riesen)

The Great Lakes Area Ecosystem Research Consortium (GLAERC) met at Stone Laboratory for a research update and a dozen science writers co-hosted by the National Wildlife Federation and members of Ohio's Coastal Resources Advisory Council participated in hands-on science cruises and Lake Erie ecosystem updates during August, 2004 (Hageman, et al.)

Over 500 youth ages 5 to 13 learned more about Lake Erie ecology at presentations made at the Ottawa National Wildlife Refuge and Lake Erie Nature and Science Center. (Riesen, Sep 2004)

Three hundred fifth grade students learned more about Lake Erie and Aquatic Science at the Explore Your Backyard Program. (Riesen & Snyder, Sep 2004)

Eighty high school students learned more about Lake Erie ecology at the Lake County Envirothon preparation, held at Penitentiary Glen, Lake County Metropark. (Riesen, Oct. 2004)

Over 450 individuals learned more about Lake Erie issues and concerns, including fish consumption, fishery biology, impacts of nuisance species and the Dead Zone at 12 educational programs taught by Kelch. These educational programs are part of the ongoing National Sea Grant Program effort to increase educational outreach regarding sport angling opportunity. (Apr- Sep 2004)

Fifty graduate students at Cleveland State University learned more about Lake Erie current issues at a lecture presented by Riesen (Oct. 2004).

Ninety-Five teachers at the Cleveland Regional Council of Science Teachers, John Carroll University learned more about Ohio Sea Grant, Stone Lab and Lake Erie issues at the Ohio Sea Grant display booth. (Hageman and Riesen, Nov. 2004).



## All Ohio Sea Grant Agents 1<sup>ST</sup>, 2<sup>ND</sup>, 3<sup>RD</sup> and 4<sup>TH</sup> QTR 2005 Accomplishments

### I. Aquaculture

#### A. Culture system technology development

**Goal:** Support technological development to stimulate aquaculture in Ohio.

**Objective:** Cooperate with OSU Piketon Aquaculture Research and Extension personnel to develop new technologies and inform the Ohio aquaculture industry to improve decision-making.

**Action:** F. Snyder and will develop and maintain a working relationship with the OSU Piketon Research and Extension Center to assist in the production and dissemination of educational material and programs for aquaculturists in Ohio.

**Result:** The Piketon Research and Extension Center was assisted in developing an aquaculture research station in Bowling Green, Ohio. Snyder serves as a technical advisor to the staff aquaculturist at the new facility. (Jul 2005)

**Action:** F. Snyder will serve as an advisor for the OSU Piketon Aquaculture Research and Extension Center's new Bowling Green aquaculture research facility and for projects developed by the OSU Lima Extension Center.

**Result:** Snyder is consulting with the Bowling Green Aquaculture center and two private growers in developing technology to bring a new baitfish species, the spotfin shiner, into commercial production. (Sep 2005)

#### B. Nutrition and feeds

#### C. Genetics of cultured species

#### D. Health and disease

#### E. Stock enhancement

### II. Biotechnology

#### A. Marine natural products

#### B. Biomolecular processes discovery

#### C. Marine environmental biotechnology

#### D. Marine resource management

### III. Coastal Communities and Economies (The National Sea Grant College Program

#### A. Improve coastal planning, educate planners, build leadership, and develop decision-support systems

**Goal:** Promote community revitalization, implementation of growth management strategies, sustainable development, land use planning, watershed planning, and the protection and restoration of coastal resources.

**Objective:** Develop proactive strategies to improve water quality in Lake Erie.

**Action:** All agents will disseminate information on land use planning and land use impacts on water quality to interested citizens and public officials.

**Result:** Snyder was appointed to the Ohio Lake Erie Commission's Technical Advisory Committee to review and develop the commission's balanced growth initiatives. (Feb 2005)

**Result:** The newly formed OSU Regional Center at Lima developed a Balanced Growth Outreach Team to lead regional initiatives in balanced growth planning. Snyder chairs the Extension team and Lucente leads program development (Jan-Feb 2005)

**Objective:** Assist in the conduct of the Ohio Business Retention & Expansion (R&E) Programs in coastal counties.

**Action:** J. Lucente and W. Williams will assist with the R&E programs conducted within their counties of responsibility.

**Result:** Williams structured a \$280,000 financial package to enable American Mine Door to receive financing from National City Bank, Shorebank Enterprise, and the City of Cleveland. This will enable the company to expand its product line and employ five additional employees. (Mar 2005)

**Result:** Williams is assisting F Squared Laboratories to obtain financing to construct a new facility. A new 50,000 sq. ft facility will allow the company to consolidate its operations under one roof. Williams structured a loan package that will include county and SBA 504 funds. When completed the total investment is valued at \$400,000 and will create 11 new jobs with starting salaries of \$19.00/hr. (Dec 2005)

**Action:** J. Lucente will provide education and outreach to extension and other economic development professionals by providing instruction on conducting a business retention and expansion program in their respective areas of Ohio.

**Result:** As a result of presenting the "2005 NORED Member Survey" by Lucente, the Northwest Ohio Regional Economic Development Association will align itself with the new privately funded Regional Growth Partnership in Toledo, Ohio and benefit through increased marketing efforts, business retention programming and project leads for regional economic development. (Lucente, July 14, 2005)

**Action:** W. Williams will work with neighborhood or area organizations and develop cluster groups, electronic surveys, and other tools for urban R&E program development.

**Result:** In March 2005, the Mayor for the City of Cleveland has announced the use job tax credits to retain and attract businesses to the Central Business District (CBD). Existing companies and companies relocating in the CBD hiring 25 or more new employees are eligible. In October of 2003 Williams designed a survey for the Downtown Cleveland Partnership to determine if current tenants intended to renew their existing lease or plan on moving out of the CBD. The survey revealed that more than 38% of existing office tenants had no intention of renewing their leases. Surveyed company's requested; better security in the central business district, parking vouchers for employees and tax relief. Williams was an active member in the Downtown Office Task Force that recommended the use of job tax credits to attract and retain CBD tenants.

**Goal:** Support research to expand our understanding of the biological, physical and socio-economic importance of coastal Lake Erie (including biodiversity and biocomplexity) and train coastal decision-makers to use this science-based information to improve management.

**Objective:** Support research and dissemination of information to enhance understanding of how land-use policies structure the demand for lakeshore and near-lakeshore development.

**Action:** J. Lucente will partner with various agencies to develop a statewide conference that provides education for coastal planning and decision making related to sustainable development in the Lake Erie watershed and other Ohio communities.

**Result:** Over 200 participants at “*The Future of Ohio’s Lake Erie Basin: Balancing Land Use and Water Quality*” learned of land use and water quality; and its past, present and future impact on Lake Erie. Post conference surveys indicate a greater awareness of the importance of water quality and land use issues, increased understanding of current programs and officials, a higher likeliness of increased participation in land use and water quality decision making, and a need for continuing education related to this topic. This conference was sponsored in part through the NOAA/USEPA Smart Growth Grant to Sea Grant programs. (Lucente & Reutter Dec 1, 2005)

**Goal:** Train community planners, business leaders, and citizens to use science-based tools more effectively in the decision making process, and help leaders in government, industry, and academia to understand the economic and environmental consequences of their choices in land use, energy and water use, and coastal building design.

**Objective:** Provide training for local leaders to support the design of sustainable economic development strategies for coastal businesses.

**Action:** Each Sea Grant Extension agent will initiate contact with county commissioners, mayors, township trustees, chambers of commerce, community improvement corporations, planning commissions etc. to provide informal outreach education and to assist in providing formal outreach relating to coastal economic development.

**Result:** Over 65 Lucas County elected officials and residents learned more about Ohio Sea Grant, its mission, research, outreach and education capabilities as well as current coastal issues at the Lucas County Coastal Forum in partnership with the Ohio Coastal Management Program. (Lucente, Oct 19, 2005)

**Result:** Lucente, J. and Thomas, J. 2005. “*Piloting an Applied Research Project with a Region*” 2005 Urban Program Conversation in Columbus, Ohio. (Oct 7, 2005)

**Action:** J. Lucente will work with extension professionals and other pertinent organizations to develop a sustainable development training model to provide outreach and education to business, government and citizen organizations.

**Result:** Joe Lucente, Dr. Jerry Thomas, Dr. Cindy Torrrpa and Dr. Tom Archer won the Ohio Extension Agents Association 2005 Community Development Innovative Team Teaching Award from Ohio State University Extension’s Department of Community Development for its work entitled “*Act Fast! How Community Development Extension Professionals Can Rapidly Utilize Applied Research to Assist Organizational Development.*” ( Dec 14, 2005)

**Result:** Thirty-three public officials, consultants and community group members participated in a discussion on growth and development. Lucente partnered with the Toledo Metropolitan Area Council of Governments and the Ohio State University Extension Land Use Team in hosting a community forum entitled “Planning for Growth and Development: How Should Ohio and Its’ Communities Respond?” The group learned more about different approaches to development and the strengths and any tradeoffs involved in each. (Lucente, Konen, Jan. 13, 2005)

**Action:** J. Lucente will partner with the Greater Toledo Area Chamber of Commerce to continue the “Leadership Academy” for elected, appointed and volunteer community leaders.

**Result:** Over 300 extension professionals learned about designing and delivering local government leadership education as Lucente presented a poster entitled “*Community Government Leadership: Building Partnerships and Creating A Community Leadership Network*” at the 2005 Ohio State University Annual Conference. (Lucente Dec 13-14, 2005).

**Result:** Lucente, J. 2005. “*Community Government Leadership: Building Partnerships and Creating a Community Leadership Network*” poster presented at the 2005 Urban Program Conversation in Columbus, Ohio. (Lucente, Oct 7, 2005)

**Result:** Lucente, J. 2005. “*Local Government Leadership: Creating a Community Leadership Network*” poster presented at the 2005 International Coastal Zone Conference in New Orleans, LA. (Lucente, Jul 17-21, 2005).

**Result:** As a result of presenting the “2005 NORED Member Survey” by Lucente, the Northwest Ohio Regional Economic Development Association will align itself with the new privately funded Regional Growth Partnership in Toledo, Ohio and benefit through increased marketing efforts, business retention programming and project leads for regional economic development. (Lucente, Jul 14, 2005)

**Result:** “*The 2005 Toledo Local Government Leadership Academy Results*” indicated an 85% overall increase in knowledge gained by 12 area leaders that enrolled in the 10-week local government leadership course in Toledo, Ohio. (Lucente, Jul 14, 2005)

**Result:** Twelve leaders received certificates of completion from the fourth annual 10-week Toledo Local Government Leadership Academy. Lucente helped form a partnership and helped to create a curriculum to improve local government leadership capabilities. Since 2002, a total of 65 participants have increased their overall knowledge in local government by 86% according to class evaluations. (Lucente and Lacy Jan 2005- Mar 2005).

**Result:** Twenty-seven community development extension professionals learned about evaluation methodologies for local government leadership programming as Lucente and Dr. Greg Davis presented a paper entitled “Evaluating and Documenting Impact in Local Government Leadership Training for Public Officials” at the inaugural National Association for Community Development Extension Professionals Conference in Las Vegas, NV. (Lucente and Davis, Feb 14-18, 2005)

**Result:** Lucente, J. *Local Government Leadership Education: Measuring the Impact of Leadership Skill Development on Public Officials* paper presented at the Hawaii International Conference on Education. Honolulu, Hawaii. (Jan. 4-7, 2005.)

**Goal:** Support communities in making smart choices that unite economic development with the protection of the quality of coastal life, e.g. developing tourism and nature-based recreation to offset economic declines in other areas.

**Objective:** Increase profitability in the charter fishing industry through business and technology development and education.

**Action:** F. Snyder will conduct the Ohio Charter Captains Conference annually.

**Result:** The 24<sup>th</sup> Annual Ohio Charter Captains Conference, held in Sandusky Ohio, provided training for 201 licensed charter captains in fisheries management, charter business, marine electronics, laws and regulations and Lake Erie issues. Among captains attending over the last five years, 66% report increased profits by using conference information. Operating practices were modified by 84% of attendees and 95% said they use conference information in some aspect of their businesses. (Snyder, Riesen, Hageman and Lucente, Mar 2005)

**Action:** F. Snyder will assist charter fishing operators and other marine businesses to incorporate new technology.

**Result:** Thirty five licensed charter captains gained knowledge of Lake Erie issues affecting their businesses at the Western Basin Charter Boat Association meeting in Monroe, Michigan. (Riesen, Apr 2005)

**Result:** Over 50 licensed charter captains gained knowledge of Lake Erie issues affecting their businesses at the Sandusky Charter Boat Association annual meeting. (Snyder, Mar 2005)

**Action:** F. Lichtkoppler will conduct business surveys of charter captains at 4-5 year intervals.

**Result:** Kuehn, D., Lichtkoppler, F. and Pistis, C. 2005. The Great Lakes Charter Fishing Industry: 1973 to 2002. *Fisheries* 30 (3) 10-17.

**Action:** K. Riesen’s new Ohio Sea Grant Fisheries Extension Advisory Committee will develop strategies to increase participation in angling and boating.

**Result:** A Sea Grant Extension Advisory Committee (SGEAC) for Fisheries Extension representing state, federal and international agencies, private stakeholders and the outdoor media has been assembled and the first meeting was conducted in August, 2005 and now has regularly

scheduled, quarterly meetings. Committee input is currently being used in program planning. (Riesen Aug 2005)

**Objective:** Improve the decision-making process regarding the development and retention of coastal recreation businesses.

**Action:** K. Riesen will assist the charter fishing industry in developing new marketing strategies directed at underrepresented audiences.

**Result:** Over 200 Lake Erie charter boat captains gained new marketing strategies for including underrepresented female clientele into their business operations through a new initiative entitled Women: Sport Fishing's Untapped Market. Two charter operators to date have requested copies of the presentation materials to incorporate into their businesses. (Riesen, Mar 2005)

**Action:** Support research and outreach efforts to determine the economic and environmental impacts of various types of coastal recreation to assist resource managers.

**Result:** Kelch, D, F. Lichtkoppler, B. Sohngen and K. Riesen. "Social and environmental factors impacting preferences and expenditures of Ohio's Lake Erie tributary steelhead anglers." Oral presentation, (Riesen), American Fisheries Society, 135<sup>th</sup> Annual Meeting, Anchorage, AK. (Sep 11-15, 2005)

**Result:** Kelch, D. O., Lichtkoppler, F. R., Sohngen, B. L., and K.M. Riesen, "Evaluating the Economic Contribution of Ohio's Lake Erie Tributary Steelhead Fishery, 2002-2003." 114<sup>th</sup> Annual meeting of the Ohio Academy of Science, Bowling Green State University, Apr 2, 2005.

**Objective:** Enhance Lake Erie and Great Lakes regional tourism.

**Action:** F. Lichtkoppler and F. Snyder will participate on the leadership team to secure federal designation and implement a management plan for the Lake Erie Coastal Trail Scenic Byway.

**Result:** The U.S. Secretary of Transportation, Norman Mineta, through the Federal Highway Administration designated the Lake Erie Coastal Ohio Trail as a Nationally recognized scenic byway and one of America's Byways™ on September 22, 2005 in Washington, D.C. (M. Huntley, P. Staley & F. Lichtkoppler)

**Result:** Ohio Governor Robert Taft officially dedicated the Lake Erie Coastal Trail as Ohio's 21<sup>st</sup> Scenic Byway on April 22, 2005. The designation is expected to provide additional opportunities to market Lake Erie coastal tourism according to Melinda Huntley, Executive Director, Lake Erie Coastal Ohio, Inc. Lichtkoppler shared the podium with the Governor at the dedication and stressed the LECO, Inc. goals of increasing nature based tourism and preservation of the natural coastline of Lake Erie.

**Result:** *The Lake Erie Coastal Ohio Trail Scenic Byway Corridor Management Plan 2005* was completed by M. Huntley with the assistance of Lichtkoppler and the Lake Erie Coastal Ohio, Inc. Byways Committee. (Mar 30, 2005).

**Result:** The *2005 National Scenic Byways Nomination* was completed by M. Huntley with the assistance of Lichtkoppler and the Lake Erie Coastal Ohio, Inc. Byways Committee. (Mar 30, 2005).

**Objective:** Investigate opportunities for development of new recreational activities and businesses on Lake Erie.

**Action:** D. Kelch and J. Lucente will develop a “Lake Erie Shipwreck Trails Guide” to be used by divers, students, and teachers.

**Result:** The specialist was invited by New York Sea Grant at SUNY, Oswego, to present a lecture during their annual conference for shipwreck preservation and research. The lecture, titled, “*Underwater Preserves And Shipwreck Protection In Ohio’s Lake Erie; A Success/Failure Venture.*” He taught over 80 professionals more about shipwreck research and protection efforts in the Ohio portion of Lake Erie. (Kelch, Mar, 2005)

**Objective:** Provide outreach education and assistance to county visitors bureaus in the marketing and development of tourism on Ohio’s North Coast.

**Action:** J. Lucente will assist the Toledo Area Convention and Visitors Bureau in the development and publication of the Western Lake Erie Waterfront Guide.

**Result:** Lucente won first place in the Epsilon Sigma Phi – Ohio Chapter 2005 Tools for Teaching & Media Contest for the 2005 Western Lake Erie Waterfront Guide publication. This publication assists visitors to western Lake Erie in finding public access, restaurants, hotels, marinas, charter fishing, local attractions, etc. (Dec 2005)

**Objective:** Support the Lake Erie marine trades industry, and other tourism related businesses.

**Action:** As part of the Ohio Clean Marinas program, D. Kelch and F. Snyder will provide marina operators with current and appropriate in-water weed control procedures through personal contact and Clean Marinas publications and workshops, as appropriate.

**Result:** Thousands learned more about aquatic nuisance species and other Lake Erie related topics through educational materials and contact with Sea Grant personnel during the 2005 LEMTA In-Water Boat Show, September 14-18, Sandusky, Ohio. Ohio Sea Grant maintained an educational display at the show at the request of LEMTA Director Norm Schultz. (Kelch & Comer)

## **B. Resource valuation**

**Goal:** Assist coastal communities to examine their natural resources, and support research to quantify the economic value of goods and services (including fisheries, recreation, waste assimilation, erosion/flood control, and biological diversity) derived from those resources, as a critical component of coastal planning.

**Objective:** Generate databases of public opinions, attitudes, and values as they relate to marine and aquatic issues to guide future research, education and outreach activities and to inform management decisions.

**Action:** F. Lichtkoppler will partner with others to help conduct applied socio-economic research on citizen (voter) willingness to pay for environmental amenities and environmental improvements such as green space preservation, recycling programs, and environmental cleanups as requested by local authorities and will share the results with citizens, local officials, resource managers and the scientific community.

**Result:** “We (the Lake County Solid Waste District) did use the recycling survey (see reference below), and in many ways: 1. Results (summary pages) were faxed and mailed to all Lake County Community Mayors/Managers/ Service Directors; 2. Survey data was used by the News-Herald in one of their articles; 3. Survey information was part of info meetings held with each and every community administration in preparation of bidding for new countywide recycling contract (survey data helped administrators understand the positive recycling feelings of the majority of their residents)” wrote Chris Hodges, Public Services Coordinator, Lake County, Ohio. (Lichtkoppler, Blaine & Zondag, Jul-Nov 2005)

**Result:** Lichtkoppler, F.R., Blaine, T.W., and Zondag, R.H. Generating Information for Decision Making: Curbside Recycling in Lake County, Ohio. Poster presented at the 90<sup>th</sup> Annual Meeting and Professional Improvement Conference. National Association of County Agricultural Agents. Buffalo, NY. July 17-21, 2005.

**Result:** Blaine, T. W., Lichtkoppler, F. R., Jones, K.R. and Zondag, R.H. (2005) An Assessment of Household Willingness to Pay for Curbside Recycling: A Comparison of Payment Card and Referendum Approaches. *Journal of Environmental Management* 76 (2005) 15-22.

**Result:** Lichtkoppler, F., Blaine, T. and Zondag, R.- *The future of Curbside Recycling in Lake County: A report on Residents' Views. January 31, 2005.* Ohio State University Extension, Lake County. 55 pp mimeo.

### **C. Constructing indicators of sustainable development**

**Goal:** Develop an integrated set of economic, environmental, and social indicators that track progress toward sustainable development.

**Objective:** Develop models to predict the effects of land use choices on coastal ecology.

**Action:** J. Lucente will represent Ohio Sea Grant on the Ohio Balanced Growth Roundtable Steering Committee and work with the Great Lakes Commission, Ohio Lake Erie Commission and Cleveland State University to develop programmatic, land use and water quality indicators to measure the effectiveness of the Lake Erie Balanced Growth Initiative.

**Result:** Lucente served as Ohio Sea Grant’s representative on the Ohio Lake Erie Balanced Growth Roundtable Steering Committee. A Lake Erie Balanced Growth Initiative workshop was held at Cleveland State University with 97 citizens to gauge opinions and attitudes toward the



indicators. The workshop established the key indicators to be used for evaluation of the Ohio Lake Erie Balanced Growth program. (Lucente, Ohio Lake Erie Commission, Great Lakes Commission, Cleveland State University, Jan 21, 2005)

#### **IV. Coastal Natural Hazards**

##### **A. Reducing the loss of life and property**

**Goal:** Reduce the loss of life and property from coastal natural hazards.

**Objective:** Improve the ability of local governments and emergency management agencies to alert citizens and businesses to threats stemming from storms and fluctuating water levels.

**Action:** Provide news releases, alerts, web pages, and personal assistance to agencies and local officials on critical storm and water level information, including the Great Lakes Forecasting System.

**Result:** F. Lichtkoppler successfully passed the Independent Study Course "IS-00700" entitled, "National Incident Management System (NIMS) an Introduction" on September 23, 2005 thus helping Lake County EMA to qualify for continued FEMA funding.

##### **B. Shoreline change**

#### **V. Digital Ocean**

##### **A. GEOSS, GOOS, IOOS, GLOS, NFRA**

##### **B. Climate and ecosystem forecasting**

#### **VI. Ecosystems and Habitats**

##### **A. Understand the impact of and reduce stresses on coastal systems**

##### **B. Coastal watersheds**

**Goal:** Develop integrated watershed approaches that engage researchers and coastal communities to pursue the common goal of managing watersheds in a sustainable fashion by developing the science-based information needed to predict changes in coastal ecosystems and habitats arising from changes in land and water use in watersheds.

**Objective:** Quantify the impacts of human activities on the aquatic environment and transfer the information to managers to influence the decision-making process at the local community and watershed levels.

**Action:** Assist citizen advisory councils and resource managers with the interpretation of research/scientific information to develop watershed protection, best management practices, and tourism development programs.

**Result:** Williams assisted in the development of a field guide for Cleveland's Dike 14, "Dike 14 Field Guide-Getting Ready to Visit Dike 14." Cleveland's children need wild places to connect with nature. Dike 14 is an amazing refuge for wildlife along an otherwise urban shoreline. The budget for the project is \$13,000. An \$8,000 grant has been received from The 1525 Foundation, \$2,000 from the Cleveland Museum of Natural History, \$1,500 from the Cuyahoga Soil and Water Conservation District and \$1,500 from the Ohio Sea Grant College Program. (Mar 2005)

### C. Conserving and restoring coastal habitats

**Goal:** Empower coastal communities to undertake well-planned coastal development that preserves, restores, and/or enhances coastal habitats by promoting wetland banking, rehabilitation of brownfields, stabilization and restoration of beaches, and establishment of protected areas.

**Objective:** Evaluate natural processes and alternative rejuvenation strategies (including wetland mitigation and biotechnology) to improve damaged ecosystems.

**Action:** F. Lichtkoppler will work with the Mentor Marsh Board to improve the Mentor Marsh ecosystem function and values.

**Result:** The Mentor Marsh Board donated its entire \$11,000 land acquisition fund to support the purchase of the 97 acre Morton Salt properties adjacent to the Mentor Marsh State Nature Preserve. Lichtkoppler is a Marsh Board member and has helped the Marsh Board to prioritize key properties for acquisition to protect Mentor Marsh. The Trust for public Land and the City of Mentor are pulling together funding from at least eight funds, foundations, organizations and agencies to meet the friendly sale price of \$3 million. Backed by “grassroots” support Congressman Steve LaTourette and Senators Mike DeWine and George Voinovich have been instrumental in obtaining federal funds for this purchase. (Sep - Dec 2005)

## VII. Fisheries

### A. Partnering to improve fisheries management

### B. Caring for people

**Goal:** Increase the sale of fishing licenses in Ohio, participation in angling activities, and angler satisfaction, and reduce conflict between anglers and managers.

**Objective:** Reverse the decline in sport fishing participation, enable fishing businesses to retain clientele, and increase youth participation.

**Action:** K. Riesen will develop youth-oriented sport fishing education programs to be presented at the LENSC, coastal counties and selected inland locations.

**Result:** About 480 fourth grade students learned to use fish seines and gained knowledge of local aquatic systems through 16 presentations made at a two day program “*Exploring Your Backyard*,” held by Sandusky County’s metroparks, SWCD and OSU Extension. (Snyder, Sep 2005)

**Result:** A youth education display entitled “Take Me Fishing” was developed for LENSC. The display encourages families to participate in fishing and has an accompanying fact sheet providing public fishing locations across the Lake Erie shoreline. (Riesen, Jentes-Banicki, Aylsworth Aug 2005)

**Result:** Ohio Sea Grant and Lake Erie Nature and Science Center co-coordinated the first ever Lake Erie Camps, where 36 youth, grades 2-9, learned to fish Lake Erie’s shoreline. (Riesen Jul 2005)

**Result:** Eighty youth from across Ohio attended the 22<sup>nd</sup> Annual Ohio 4-H Sea Camp, held June 27-July 1, 2005, at the Kelleys Island 4-H Camp. The camp provides youth with Lake Erie awareness and education, and teaches them the values associated with Lake Erie. (Kelch, Riesen)

**Result:** Forty-three Portage Elementary (Port Clinton) students gained knowledge of local fishes and angling techniques taught at the *Hooked on Fishing, Not Drugs* program. (Snyder, Riesen, May 2005)

**Result:** Over 450 students, grades K-12, increased their knowledge of Lake Erie through six presentations at local schools involving Lake Erie ecology and related topics. (Riesen, Apr-Jun 2005)

**Action:** K. Riesen will conduct youth fishing education programs and coordinate these with related efforts by the Recreational Boating and Fishing Foundation, ODW, the GLSFC, and 4-H.

**Result:** Riesen was asked and agreed to serve on the National Sea Grant's 2006 American Fisheries Society Sea Grant Symposium planning committee. (Riesen Sep 2005)

**Action:** Conduct seminars about recent changes in Lake Erie and how these changes impact the fishery, fish behavior, and fishing techniques. Other potential topics include fishery biology, fishery management updates, exotic species impacts, and fish consumption advisories.

**Result:** Over 40 community leaders and decision makers learned about Ohio Sea Grant, Lake Erie and the Dead Zone during a presentation at the ODNR Coastal Forum, Lorain County, on July 13<sup>th</sup>. (Kelch - 2005)

**Result:** Over 80 members of the South Cuyahoga Sportmen's Association learned about contaminants in fish and how to interpret Ohio's Fish Consumption Advisory during a presentation on July 5th. (Kelch - 2005)

**Result:** Over 200 individuals learned more about the Lake Erie fishery during two public seminars and presentations to three conservation groups. A post program university survey indicated over 80% learning new, useful information, 71% planned to adopt newly acquired angling tactics, and 91% gained useful information regarding fish consumption advisories. (Kelch, Apr-Jun 2005)

**Result:** Over 100 individuals gained or increased their skills in Lake Erie walleye fishing during three walleye seminars held in Bay Village, Akron, and Sheffield, Ohio. (Riesen, Kelch April-May 2005)

**Result:** Thirty one adults increased their angling skills during two presentations to the Firelands Fly Fishers angling club. (Riesen, Apr 2005)

**Result:** The Lake Erie Marine Trades Association (LEMETA) Boat Show management asked the agent to conduct a series of educational seminars during the 2005 Cleveland Boat Show. Over 200 individuals learned about fish consumption safety and the current fish advisory for Lake Erie. (Kelch, Jan 2005)

**Objective:** Increase public understanding of science-based fisheries management and the sometimes-controversial fisheries harvest and management practices needed to ensure sustainability of fisheries resources.

**Action:** K. Riesen will conduct public seminars in all shoreline counties and selected inland areas to keep fisheries resource users abreast of ecological and management information and initiatives.

**Result:** Over 300 individuals increased their knowledge of Lake Erie through three presentations involving Lake Erie ecosystem effects upon the fishery. (Riesen Feb-Mar 2005)

**Result:** Over 150 individuals gained or increased their skills in steelhead fishing in Lake Erie tributaries during a steelhead angling seminar, held in Ashland, Ohio. (Riesen, Kelch Feb 2005)

**Objective:** Increase proficiency among fisheries resource users in identifying and locating sources of fisheries and marine technology information and in using technical information in their own fishing operations.

**Action:** K. Riesen will establish a visible presence at fisheries-related public events, sport and boat shows, and other venues, to establish the fisheries agent as a well-known fisheries information source.

**Result:** Over 200 participants gained hands-on skills in shoreline fishing and lure-building at the Rocky River Watershed Festival, an event coordinated by the Rocky River Watershed Council, Cleveland Metroparks, Ohio Sea Grant, Ohio DNR, and other organizations. (Riesen Sep 2005)

**Result:** Hundreds of individuals gained knowledge of Ohio Sea Grant Extension's fisheries outreach programs and Lake Erie angling during the Northeast Ohio Sport, Travel and Outdoor Expo, held in Akron, Ohio. This successful event attracted over 20,000, and was a new educational outreach market for Ohio Sea Grant. (Riesen, Jentes, Aylsworth, Jan 2005)

### **C. Contaminants and fish consumption**

#### **VIII. Marine Aquatic Science Literacy**

##### **A. Create and sustain effective marine and aquatic science-based educational programs**

**Goal:** Develop, offer, and evaluate programs that increase public knowledge and understanding of scientific processes and marine and aquatic science issues, make effective programs available to all formal and informal constituencies, and develop diverse instructional strategies to facilitate effective programs that complement and align with appropriate education standards.

**Objective:** Provide educational and training opportunities for undergraduate and graduate students that address real-world problems, opportunities, and management needs.

**Action:** Continue to recruit and provide support for undergraduate and graduate students on Sea Grant projects and at Stone Lab.

**Result:** Eleven students in OSU's Dept of Ecology, Evolution and Organismal Behavior gained three credit hours in aquatic biology in Snyder's offering of EEOB 125. (Snyder, Jul 2004)

**Action:** F. Snyder will develop a new undergraduate credit course in Lake Erie sport fishing within the OSU School of Physical Activity and Educational Services to be taught at Stone Lab.

**Result:** Ten OSU students earned three credit hours through the College of Education's School of Physical Activity and Educational Services in a new course, *PAES 140.07 – Lake Erie Sport Fishing*, taught at the F.T. Stone Laboratory. The new course diversifies Stone Laboratory's curriculum and draws a new demographic of students to the laboratory. (Aug 2005)

**Result:** The Ohio State University College of Education, School of Physical Activity and Educational Services approved a new three credit-hour course entitled *PAES 140.07 – Lake Erie Sport Fishing* to be taught by Snyder during Summer Quarter at the F.T. Stone Laboratory. (Apr 2005)

**Objective:** Educate and inform citizens of the most up-to-date research based technical information on Lake Erie.

**Action:** All agents will help inform citizens on current Lake Erie technical issues, problems, and opportunities.

**Result:** Six interviews were provided to a newspaper, magazine and radio station to provide public education on Lake Erie fisheries issues and lake levels. (Snyder, Sep 2005)

**Result:** Twenty-eight Lucas County farm pond owners are implementing water quality and fish management techniques they learned from Snyder at the Lucas County Pond Clinic. (Snyder, Sep 2005)

**Result:** Five interviews were provided to a newspaper, magazine and radio station to provide public education on Lake Erie fisheries issues and lake levels. (Snyder, Aug-Sep 2005)

**Result:** Three interviews were provided to a newspaper, magazine and radio station to provide public education on Lake Erie fisheries issues and lake levels. (Snyder, Aug Sep 2005)

**Result:** Thirty-six Fulton County farm pond owners are implementing water quality and fish management techniques they learned from Snyder at the Fulton County Pond Clinic. (Apr 2005)

**Result:** Thousands of anglers and other outdoor enthusiasts gained knowledge and awareness of Ohio Sea Grant's fisheries outreach efforts and learned Lake Erie information through a booth maintained at the nine day American/Canadian Sport, Travel and Outdoor Recreation Show. Ohio Sea Grant booth space has been donated annually by show producers. (Riesen, Kelch, Lichtkoppler, Snyder, Hageman, Jentes, Aylsworth, Braig, Mar 2005)

**Result:** Over 510 individuals more about Lake Erie at ten educational presentations to angling groups, conservation organizations and at publicly conducted education seminars. Topics included fish consumption advisories, fishery biology, aquatic invasive species, the dead zone and pollution issues and angling topics. (Kelch, Jan-Mar 2005)

**Result:** Thousands of boaters and anglers gained knowledge and awareness of Ohio Sea Grant's fisheries outreach efforts and learned Lake Erie information through a booth maintained at the ten day Mid-American Sail and Power Boat Show in Cleveland. Ohio Sea Grant booth space has

been donated annually by show producers. (Riesen, Kelch, Lichtkoppler, Snyder, Hageman, Jentes, Aylsworth, Jan 2005)

**Objective:** Increase knowledge levels and interest in aquatic science students.

**Action:** J. Hageman will continue to provide a unique, exciting aquatic science workshop experience to over 5,000 4-12 students, offering hands-on lessons about Lake Erie, the Great Lakes, and the oceans.

**Result:** Over 3,090 elementary, junior high, senior high, and college students and adults were introduced to Lake Erie's ecosystem through a total of 98 Aquatic Science Workshop Programs and 51 other educational programs at Stone Laboratory in 2005. Since 2000, over 30,000 youth and adults have participated in Stone Laboratory's aquatic science workshop programs. Activities include a hands-on science cruise, plankton and fish identification lab sessions, an invertebrate walk for biological indicators, bird hikes, insect lab sessions and an exotic species (AIS) slide show. (Hageman)

**Objective:** Increase public knowledge and understanding about Lake Erie, the Great Lakes, the oceans, the aquatic sciences, and the mission of Sea Grant and our research, education, and outreach efforts.

**Action:** Develop and update the Ohio Sea Grant exhibit for use at regional and local fishing and boating shows, staff the exhibit and respond to Lake Erie user requests for information generated by the shows.

**Result:** The new Ohio Sea Grant Outreach Education display was developed the Cleveland Boat Show (Jan) and Cleveland Sport Show (March) featured oversized images of AIS effectively prompted display visitors to ask questions regarding AIS impacts. In addition, a 75 gallon aquarium, complete with various Lake Erie species, became an immediate attraction at both events. (Kelch, Banicki, Aylsworth, Riesen, Jan-Mar 2005)

**Objective:** Increase communication between Sea Grant agents, their advisory committees and researchers.

**Action:** All Sea Grant agents will continue to review research proposals and work with their advisory committees to identify research needs. Meetings with researchers will be fostered at the quarterly staff meetings.

**Result:** Lichtkoppler and Snyder reviewed 28 pre-proposals and 18 full research proposals as part of the Ohio Sea Grant Management Team and provided input to the OSG Director on the extension utility of the proposals. (Oct 2005)

**Action:** K. Riesen will assemble and hold regular meetings with a Sea Grant Fisheries Extension Advisory Committee (SGFEAC) that will include the Ohio Division of Wildlife, Great Lakes Fishery Commission, U.S. Geological Survey, Lake Erie Biological Station, Lake Erie Charter Boat Association, Lake Erie Marine Trades Association and private sector fisheries stakeholder groups. Input from this committee will be provided to the research community and to management agencies.

**Result:** Professional cooperative contacts were established with state, federal and international agency officials and private stakeholder representatives through a series of individual meetings and by attending the Great Lakes Fisheries Commission's Lower Great Lakes Committee Meetings. Contacts include the Great Lakes Fisheries Commission, U.S. Geological Survey – Lake Erie Biological Station, Ohio Division of Wildlife, the Great Lakes Sport Fishing Council and the Lake Erie Charter Boat Association. (Riesen, Feb-Mar 2005)

**Objective:** Participate in the Great Lakes Sea Grant Network committees in all program areas and promote Great Lakes Sea Grant Extension agent professional development.

**Action:** Ohio Sea Grant, including Extension agents, co- program leaders and Communicator, will be represented on as many of the Great Lakes theme team committees as practical.

**Result:** Fisheries Extension Coordinator, Riesen, was nominated to serve on the Great Lakes Network Conference 2006 planning committee. (Riesen, Jun 2005)

#### **B. Expand professional development opportunities for all educators**

**Goal:** Provide professional development opportunities for pre-service and in-service teachers and other education professionals to prepare them to better teach aquatic sciences and help them meet accountability requirements.

**Objective:** Improve the technical training and capabilities of extension staff.

**Action:** F. Lichtkoppler, F. Snyder, and D. Kelch will mentor and assist extension coworkers in the OSU promotion and tenure process.

**Result:** Twenty–six faculty dossiers were evaluated by Professor Lichtkoppler as part of the College of Food, Agriculture and Environmental Studies (CFAES) Promotion and Tenure (P&T) Committee. The Committee makes recommendations for CFAES Promotion and Tenure to Dr. Moser, the Dean and Vice President of the CFAES,. (Lichtkoppler, Nov-Dec 2005)

**Action:** K. Riesen will participate in new agent training in 2005; both Extension and new Sea Grant Agent training to be conduct in Virginia and Florida during 2005.

**Result:** Riesen, increased Sea Grant Program expertise by becoming a certified facilitator of both Ohio Division of Wildlife's Project Learning Tree and Hooked On Fishing, Not On Drugs programs. (April-May 2005)

**Result:** Skills in Sea Grant Extension programming were developed by attending the National Sea Grant Academy, and the Ohio Coastal Training Program. (Riesen, Mar 2005)

#### **C. Engage underrepresented populations in Sea Grant efforts**

**Goal:** Provide programming and opportunities specifically targeted toward local constituencies who have been historically underrepresented in the aquatic sciences.

**Objective:** Increase participation in sport fishing and other outdoor activities by women.

**Action:** K. Riesen will develop materials in support of and conduct programs to encourage female participation in these activities and increase marketing efforts to this demographic group.

**Result:** Riesen, K.E. 2005. Women: sport fishing's untapped market. American Fisheries Society, 135<sup>th</sup> Annual Meeting, Sept. 11-15, 2005, Anchorage, Alaska. (Riesen Sep 11-15 2005)

**Result:** Twenty five women involved in the National Wild Turkey Federation's Women in the Outdoors program, increased their skills in shoreline fishing and aquatic ecology in an on-water clinic, held at Grand River Marina. (Riesen Aug 2005)

**Result:** Twenty five women involved in the National Wild Turkey Federation's Women in the Outdoors program, increased their skills in pond fishing in an on-water clinic, held in Chatham, Ohio. (Riesen, Jun 2005)

**Result:** Over 30 handicapped anglers, ages 12-40, acquired angling and lure-building skills in an on-water fishing festival, held in Rocky River, Ohio. (Riesen, May 2005)

**Result:** Fourteen Cleveland inner city high school students developed skills in shoreline fishing in a partnership between Ohio Sea Grant and the National Science Foundation, Cleveland, Ohio. (Riesen, May 2005)

**Result:** Fisheries Extension Program Coordinator Riesen was nominated to serve on Ohio Central Basin Steelheaders board of directors, and the Women in the Outdoors planning committee. (Feb-Mar 2005)

## **IX. Seafood Science and Technology**

### **A. Ensuring seafood safety**

## **X. Urban Coasts**

### **A. Reducing non-point source pollution**

**Goal:** Reduce non-point source pollution from urban areas.

**Objective:** Decrease nonpoint source pollution from marinas and boaters through increased participation in the Ohio Clean Marinas and Clean Boaters programs.

**Action:** D. Kelch, J. Reutter, and L. Hushak will collaborate with the ODNR Divisions of Soil and Water Conservation, Office of Coastal Management, and Division of Watercraft; Ohio Department of Health; OEPA; Ohio Department of Commerce, State Fire Marshall Division; U.S. Coast Guard; U.S. Army Corps of Engineers; LEMTA; Greater Cleveland Boating Association; local health departments; local fire marshals; and private-sector stakeholders to conduct educational training/certification workshops, develop marina incentive programs, and coordinate



marina certification site visits through the Ohio Clean Marinas and Clean Boaters programs.

**Result:** Three new pledges have also been received from previously held workshops, bringing the total number of pledged marinas to 21. (Oct, 2005, Comer & Kelch)

**Result:** The OCMP Advisory Board adopted updated policy concerning the BMP checklist that allowed the first marinas to achieve certification as Ohio Clean Marinas. Nine Lake Erie marinas were certified (Sept- Oct, 2005, Comer & Kelch)

**Result:** Scores of boaters learned more about the OCMP and clean boater programs at the Cedar Point In-Water Boat Show Sept 14-18, 2005. (Comer, Kelch et. al.)

**Result:** An OCMP workshop was conducted on July 20<sup>th</sup> in Port Clinton, Ohio, with five marinas represented and 2 new pledges resulting from this activity.

**Result:** Over 100 park managers and assistant managers learned more about the OCMP at the Ohio State Park Managers Conference on July 13, 2005 with one marina pledging.

**Result:** A \$5000 grant through ODNR, Soil and Water was used to develop and purchase Ohio Clean Marinas Program incentives, including metal and plastic signage, labeling stickers/decals and pennants. (Kelch, Comer, 2005)

**Result:** A \$2000 grant to purchase recycling containers was secured from Labor and Industry Council of Ohio (LICO). These containers, part of a recycling effort through ODNR Litter Prevention, will be provided to certified clean marinas as part of the incentive package. (Kelch, Comer, 2005)

**Result:** Ohio Sea Grant was asked to implement the Ohio Clean Marina Program (OCMP) by the ODNR/Ohio Coastal Management. The associate professor was identified as project PI and interim program coordinator for the Ohio Clean Marinas Program (OCMP) on January 1. A \$75K grant to Ohio Sea Grant from ODNR/Ohio Coastal Management provided the funding to hire an OCMP coordinator, Gary Comer. (Hushak, Reutter, Kelch. Jan to Mar 2005)

**Action:** Gary Comer will be hired as the new Ohio Clean Marina Coordinator.

**Result:** Gary Comer was hired as the Ohio Clean Marinas Coordinator in May 2005.

## **B. Enhancing port and harbor operations**

**Goal:** Assess the risks of contaminants in dredged materials and identify disposal options and evaluate the ecology and water quality of major urban ports to assess cumulative effects, preserve coastal resources, and improve infrastructure.

**Objective:** Assist local Remedial Action Plan (RAP) Councils and the Ohio Environmental Protection Agency in the Remedial Action Plan process for Ohio Areas of Concern.

**Action:** F. Lichtkoppler will continue to assist the Ashtabula River Partnership in its effort to clean up (dredge) the Ashtabula River.

**Result:** The USEPA Great Lakes National Program Office (GLNPO) awarded the Ashtabula City Port Authority \$25 million in Great Lakes Legacy Act (GLLA) funding to partially fund the \$50 million remedial dredging of the contaminated sediments from the Ashtabula River. The OEPA is funding \$7 million and the PRP's are funding the remaining \$18 million of the project. The project will go out for construction bids on the landfill in January and should have it under construction in March. We plan to be dredging in September 2006. This is the largest GLLA project to date. (Lichtkoppler, Dec 9, 2005)

**Result:** The Assistant Secretary of the Army for Civil Works, J.P Woodley, Jr. toured the Ashtabula River and listened to the local Ashtabula River Partners (ARP) members explain their support of the proposed cleanup of the Ashtabula River. Lichtkoppler was asked to speak and he explained the recreational and tourism implications of the proposed cleanup. The Ashtabula River cleanup would continue the restoration and protection of Lake Erie and its multimillion dollar fishing and tourism industries. (Apr 21, 2005)

**Action:** F. Snyder and J. Lucente will support efforts in the Maumee RAP process.

**Result:** Hundreds of decision makers learned of watershed management techniques as Ohio Sea Grant teamed with NOAA Sea Grant, Ohio NEMO and many others partners to provide a live satellite feed of a program entitled "*Stormwater Management From a Watershed Perspective.*" This innovative program technique is also available via CD and will enable other watershed management personnel to utilize its resources. (Lucente, McCall, Lawrence Oct 11, 2005)

### **C. Managing coastal operations**

**Goal:** Provide accurate, unbiased scientific data to help policymakers and resource managers prioritize and manage conflicts resulting from the allocation of limited space and scarce coastal resources.

**Objective:** Encourage business expansion and development on brownfield sites.

**Action:** W. Williams will provide information on resources and linkages to assist existing businesses with expansion plans to reduce urban sprawl and prevent the development of new brownfield sites caused by business relocations.

**Result:** Williams assisted Miceli Dairy Products assemble land for future expansion of their East 90<sup>th</sup> Street plant. Crain's Cleveland Business (Jan 10-16, 2005) that Miceli Dairy Products Inc, a local cheese maker is planning a \$20,000,000 investment in its production plant on East 90<sup>th</sup> Street. After the expansion takes place the company will add 35 people to its workforce of 135 employees.

**Objective:** Continue our successful outreach programs in Cleveland and Toledo emphasizing brownfield redevelopment and business retention and expansion within urban coastal communities.

**Action:** W. Williams and J. Lucente will provide technical assistance to existing businesses having expansion plans aimed at reducing urban sprawl and preventing the development of new brownfield sites caused by business relocations.

**Result:** As a result of Williams’s business retention programming for the calendar year 2005, Williams was directly responsible for creating 58 new jobs and increasing business investment by \$27,922,000 in Northeast Ohio. This investment figure reflects actual approved loan amounts or the invoice for the purchase of machinery, equipment or facilities acquired by a specific business. See the table for January 1, 2005 to December 31, 2005 below:

**Result: Jobs Created and New Investment in 2005 (Williams)**

<b>Company Name</b>	<b>Value Added</b>	<b>Job creation</b>	<b>New Investments</b>
American Mine Door	Loan structure, equity investment, financial reporting enhancement	5	\$280,000
Lake Erie Creamery	Site identification	2	
Genesis Energy LLC	Site identification/location	2	\$400,000
Cresthaven Development	Loan structuring		\$2,500,000
McTech	Loan Structuring, financial accounting enhancements	10	\$1,250,000
LZ custom Cabinets	Loan structuring		\$210,000
Upris Corporation	Loan structuring		\$750,000
Miceli Dairy	Land assembly	35	\$20,000
Ascus Technologies	Loan structuring		\$500,000
Auto Bolt	Structured purchased for asset purchase of business		\$1,500,000
Lefco Pallet & Crate	Loan structuring		\$132,000
		58	\$27,522,000

**XI. Aquatic Invasive Species (AIS)**

**A. Prevention, control, economic impact, biology, and ecology of AIS**

**Objective:** Develop methods to control and reduce the impact of AIS.

**Action:** F. Snyder will produce new multi-media educational materials to increase awareness of AIS and their impacts on the Lake Erie watershed.

**Result:** Snyder, F.L. 2005. Lake Erie sport fishery alterations by non-native species. 114<sup>th</sup> Annual Meeting of the Ohio Academy of Science, Bowling Green, Ohio.

**Objective:** Reduce the possibility of future AIS introductions.

**Action:** F. Snyder will conduct ANS-HACCP training workshops in Ohio and other states to promote the adoption of HACCP procedures in live fish transfer.

**Result:** Nineteen inland lake managers and consultants throughout Indiana learned AIS-HACCP methods to prevent the spread of invasive species through transportation of boats and sampling gear. All developed formal HACCP plans for their particular operations and received AIS-HACCP certification at the South Bend, IN workshop. (Snyder, Charlevoix, Apr 2005)

**Result:** Twenty-four aquaculturists, lake managers and aquatic weed harvesters learned AIS-HACCP methods to prevent the spread of invasive species through transportation of harvesting, equipment, boats and sampling gear. All developed formal HACCP plans for their particular operations and received AIS-HACCP certification at the Morrisville, NY workshop. (Snyder, Domske, Apr 2005)

**Result:** Twenty-two scientists with the Michigan Department of Environmental Quality learned AIS-HACCP methods to prevent the spread of invasive species through transportation of boats and sampling gear. All developed formal HACCP plans for their particular operations and received AIS-HACCP certification at the Lansing, MI workshop. (Snyder, M. Klepinger, Mar 2005)

**Action:** F. Lichtkoppler and F. Snyder will work with the Great Lakes Network, Pet Industry Joint Advisory Council, and others to develop a national campaign to reduce aquarium introductions of non-native organisms.

**Result:** Scores of pet industry managers, store owners and wholesalers learned more about the Habitattitude™ campaign to reduce aquatic plant and animal introductions to natural waters at the H.H. Backer Pet Industry Trade Show in Chicago Oct 6-9, 2005. (Lichtkoppler)

## **XII. ADMINISTRATIVE:**

**Result:** Lichtkoppler was the PI with Fred Snyder, Dr. Jeff Reutter and Dr. Ken Martin as Co-PI's on the Ohio Sea Grant Extension Core Grant Proposal for 2006-2010. The \$1.6 million grant (\$401,344/year for four years) was submitted to the National Sea Grant College Program as part of the Omnibus Ohio Sea Grant Proposal for 2006-2010. (Dec 1, 2005)

**Result:** Lichtkoppler was the PI with Jeff Reutter as Co-PI on a \$200,000 (\$50,000/year for four years) Ohio Sea Grant Extension Coastal Community Development grant. The grant was submitted to the National Sea Grant College Program as part of the Omnibus Ohio Sea Grant Proposal for 2006-2010. (Dec 1, 2005)

**Result:** The Ohio Sea Grant College Program completed the PAT in August 21-24, 2005 scoring very high thus keeping OSG in the upper echelon of the NOAA Sea Grant Programs. (All Ohio Sea Grant College Program faculty and staff)

**Result:** Ohio State University Extension transferred \$110,275 in operations support funding for secretarial support, supplies, communications, etc. into the appropriate local accounts to support Ohio Sea Grant Extension operations for the period 1 Mar 2005 to 28 Feb 2006. A 5% (\$1,640) cut in operating funds was implemented to comply with mandated 5% cut in Extension funding.

A \$26,031 increase in OSUE secretarial funding was offset by a \$26,031 reduction in the OSUE support for Fred Snyder. (Lichtkoppler, July 6, 2005)

**Result:** Ohio State University Extension transferred \$85,032 in operations support funding for secretarial support, supplies, communications etc. into the appropriate local accounts to support Ohio Sea Grant Extension operations for the period 1 Mar 2004 to 28 Feb 2005. (Lichtkoppler, Jan 1, 2005)

Table E-2: Ohio Sea Grant Extension Combined Activities 2004

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP/No.	MASS MEDIA
2004	1	5		Williams	Junior Achievement		Education	26				
2004	1	6		Snyder	Mayor's Core Group	Port Clinton	Transient Marina Development	13		x		
2004	1	6		Williams	SAE partners meeting		Business Development	7				
2004	1	7		Kelch	osu advisory committee	Elyria	osu update, planning	18	x	x		
2004	1	7		Williams	Web Site Development		Extension Edu.	7				
2004	1	8		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED MTG.	35				
2004	1	8		Lucente	Lucas County Staff Mtg.	Toledo	Office Conference	12				
2004	1	9		Hageman	Put-in-Bay Senior Center	Put-in-Bay	Stone Laboratory Research	16				
2004	1	9		Williams	Staff Mtg		Business Development	104				
2004	1	10		Hageman	Pheasants Forever State Council	Upper Sandusky	Winter Meeting	260				
2004	1	11	12	Lichtkoppler	JIPAC, Sea Grant, USFWL, Pet Dealers	Chicago, IL	AIS Aquarium Pets Project	31				
2004	1	12		Hageman	Pheasants Forever, Chapter 291	Oak Harbor	Monthly Board Meeting	4				
2004	1	12		Lucente	Local Government Leadership Acad.	Toledo	Local Govt. Leadership	14	x	x		
2004	1	12		Williams	Junior Achievement		Education	26				
2004	1	12		Williams	Land Use Conference Call		Program Development	8				
2004	1	12		Williams	Social Econ. Cuy RAP		Sea Grant	12				
2004	1	12		Williams	Web Design		Extension Edu.	2				
2004	1	13		Lucente	West District-OSU Extension	Findlay	Electronic Visual Disp. In-Service	38				
2004	1	13		Williams	Extension Staff Mtg		Extension Edu.	7				
2004	1	14		Lucente	OSU Extension Professionals	Columbus	Local Govt. Leadership	20				
2004	1	14		Snyder	Out Here Magazine Interview	Port Clinton	Pond Management					XX
2004	1	15	25	Lichtkoppler	Mid-American Boat Show	Cleveland	Sea Grant Information Booth					XX
2004	1	15		Lucente	OSU Extension Professionals	Columbus	Local Govt. Leadership	20				
2004	1	15		Snyder	Lakeland Boating Magazine Interview	Port Clinton	Zebra Mussels, Personal Watercraft					XX
2004	1	15		Williams	Urban Conversation		Extension Edu.					
2004	1	16	25	Kelch	Mid-American Boat Show	Cleveland	Sea Grant Information Booth		x			XX
2004	1	16	25	Kelch	mid-America boat show presentations	Cleveland	dead zone, fish consumption	225	x			
2004	1	16		Lucente	West District-OSU Extension	Findlay	District Office Conference	18				
2004	1	16		Snyder	OSUE District Office Staff	Findlay	Office Conference	9				
2004	1	16		Williams	Arnold lockett		Port of Cleveland	20				
2004	1	16	26	Williams	Boat Show		Sea Grant					
2004	1	17	18	Hageman	Cleveland Boat Show	Cleveland	Ohio Sea Grant Display Booth					XX
2004	1	19		Lucente	Local Government Leadership Acad.	Toledo	Local Govt. Leadership	14	x	x		
2004	1	20		Kelch	sea camp conference call	Elyria	2004 sea camp planning	10				
2004	1	20		Lichtkoppler	MARC/SAMP	Mentor	MARC Development	8				
2004	1	20		Williams	OEDC Mtg-columbus							
2004	1	21		Kelch	clean marinas program meeting	Cleveland	planning, review bmp's				x	
2004	1	21		Snyder	Clean Marinas Board	Cleveland	Planning Meeting	15		x		
2004	1	21		Snyder	Mid-American Boat Show	Cleveland	Sea Grant Information Booth					XX
2004	1	21		Williams	bulkheard public mtg	Cleveland		25				
2004	1	22		Kelch	claes ag faculty council meeting	mt.vernon	ag faculty council business				x	
2004	1	22		Lichtkoppler	Local officials	Painesville	MARC Plan Implementation	5				
2004	1	22		Snyder	GLSGN Conference Committee	Port Clinton	Conference Planning Call	11	x	x		
2004	1	24	25	Snyder	Mid-American Boat Show	Cleveland	Sea Grant Information Booth					XX
2004	1	26		Lucente	Local Government Leadership Acad.	Toledo	Local Govt. Leadership	14	x	x		
2004	1	27		Lichtkoppler	USACE , Great Lakes Commission	Painesville	Conf call Sustainability Conf	12				
2004	1	27		Snyder	GLSGN HACCP Bait Committee	Port Clinton	Planning Conference Call	8		x		
2004	1	27		Snyder	Coastal Ohio Board	Sandusky	Board & Staff Development Comm	3		x		
2004	1	27		Williams	Economic Development Net	Stow		18				
2004	1	28		kelch	lorain county visitors bureau board mtg	lorain	tourism planning,	20				
2004	1	28		Lichtkoppler	GL Sea Grant Prog Leaders	Painesville	Conf CallGL Sea Grant Topics	8				
2004	1	28		Lucente	Jerry Thomas, West District Director	Toledo	Program Planning	2				
2004	1	28		Snyder	Bass Magazine Interview	Port Clinton	Plankton					XX
2004	1	28		Snyder	GLSGN Program Leaders	Port Clinton	Planning Conference Call	9				

Mass Media includes hard-to-enumerate large audiences such as print and broadcast media and expositions

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YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2004	1	29		Lichtkoppler	Chagrin River Salmon Assoc.	Eastlake	Lake Erie Fishing, Steelhead	36				
2004	1	29		Lucente	Robert McCall, West District	Toledo	Conference Call-Planning	2				
2004	1	30	2-Feb	kelch	w.l. baumler distributor show	huron	sea grant display, publications				x	XX
2004	2	2		Hageman	Ohio Sea Grant Extension	Put-in-Bay	Conference Call				8	
2004	2	2		Lichtkoppler	Citizens	Painesville	SAMP Preview	12				
2004	2	2		Lucente	Sea Grant Agents	Toledo	Staff Conference Call	8				
2004	2	2		Lucente	Local Government Leadership Acad.	Toledo	Local Govt. Leadership	14	x	x		
2004	2	2		Snyder	Coastal Ohio Board	Sandusky	Document Review	3		x		
2004	2	2		Snyder	Ohio Sea Grant Staff	Port Clinton	Program Update Conf. Call	7		x		
2004	2	2		Williams	Junior Achievement	Cleveland		30				
2004	2	3		kelch	lake erie commission public meeting	toledo	balanced growth initiative mtg				x	
2004	2	3		Lucente	Lucas County Staff Mtg.	Toledo	Office Conference	12				
2004	2	3		Lucente	Local Officials, State Officials	Toledo	Lake Erie Balanced Growth Init.	25				
2004	2	3		Snyder	Mayor's Core Group	Port Clinton	Transient Marina Development	17		x		
2004	2	3		Snyder	Ohio Lake Erie Commission	Toledo	Balanced Growth Initiative				30	
2004	2	3		Williams	Land Use Conference Call	Cleveland		5				
2004	2	4		Lucente	OSU Extension Professionals	Findlay	Lead Programs in Comm. Dev.	16				
2004	2	4		Williams	North Coast Web design	North Olmsted		3				
2004	2	5		kelch	submerged lands advisory sub-comm	lorain	plans for 04, buoys, preseve	6				
2004	2	5		Lucente	Economic Development Professionals	Toledo	Cluster Group Study In E.D.	20				
2004	2	5		Snyder	Jerry Thomas, West Dist. Director	Port Clinton	Program Evaluation	2				
2004	2	5		Snyder	OSUE West Dist. Aquaculture Comm.	Port Clinton	Aquaculture Conference Call	6				
2004	2	5		Williams	Economic Development Breakfast club	Cleveland		4				
2004	2	5		Williams	SAE partners meeting	Akron		8				
2004	2	6		Lichtkoppler	LECO Exec Comm	Elyria	Lake Erie Coastal Ohio Program	5				
2004	2	9		Lucente	Local Government Leadership Acad.	Toledo	Local Govt. Leadership	14	x	x		
2004	2	9		Williams	Junior Achievement	Cleveland		30				
2004	2	10		kelch	icvb sub committee meeting	lorain	tourism issues, bureau policy		7	x		
2004	2	10		Williams	Land Use Conference Call	Cleveland	Land Use	5				
2004	2	11		Snyder	Toledo School Teachers	Toledo	AIS in Lake Erie	32				
2004	2	11		Williams	Extension Staff Mtg	Cleveland	Agent mtg					
2004	2	12		kelch	west cleveland walleye association	cleveland	lake erie issues/concerns	41				
2004	2	12		Lucente	OSU Land Use Team	Toledo	Conference Call- Land Use	17				
2004	2	12		Williams	Macelli Dairy	Cleveland	Business Development	9				
2004	2	13	15	Lichtkoppler	Eastlake Fishing Symposium	Eastlake	Lake Erie Fishing, Steelhead					XX
2004	2	13		Snyder	MSU Museum Committee	Port Clinton	Exhibit Conf. Call	9				
2004	2	16		kelch	lorain cty extension office conference	elyria	sea grant update	16				
2004	2	16		Lucente	Local Government Leadership Acad.	Toledo	Local Govt. Leadership	14	x	x		
2004	2	17		kelch	westlake sportsman club	westlake	lake erie issues/concerns	35				
2004	2	17		Lichtkoppler	MARC/SAMP	Mentor	MARC Development					
2004	2	17		Lichtkoppler	Steelhead Anglers	Cleveland	Steelhead Survey Results	8				
2004	2	17		Snyder	Sandusky River Property Owners	Fremont	No Wake Zone Hearing	61				
2004	2	18		Williams	Creating a Business retention	Buffalo NY	Business Attraction planning	6				
2004	2	19		Hageman	Friends of Stone Laboratory	Columbus	Winter Lecture & Open House				100	
2004	2	19		kelch	osu stone lab winter lecture/open house	columbus	sea grant display, publications				x	
2004	2	19		Williams	Ohio Neld	Columbus	Leadership Presentations	6				
2004	2	20		Lucente	West District Office	Findlay	District Office Conference	15				
2004	2	20		Snyder	OSUE West District Staff	Findlay	Office Conference	12				
2004	2	20		Snyder	West District Budget Committee	Findlay	Budget Development	5		x		
2004	2	23		Lucente	Local Government Leadership Acad.	Toledo	Local Govt. Leadership	14	x	x		
2004	2	24		kelch	great lakes commission pub hearing	parma	contaminants/pollution station	100				
2004	2	24		Lichtkoppler	Citizens, agency officials	Parma	Great Lakes Restoration Priorities	55				
2004	2	24		Lucente	State, Local Officials, genreal Public	Parma	Great Lakes Restoration Mtg.	50				
2004	2	24		Snyder	Cleveland Area Citizens	Cleveland	Great Lakes Restoration Hearing	78				

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2004	2	25		kelch	fin feather fur outfitters seminar	ashland	steelhead seminar	85		x		
2004	2	26		Lucente	Sea Grant Agents	Toledo	Conference Call	8				
2004	2	26		Snyder	Ohio Sea Grant Staff	Port Clinton	Program Conference Call	7				
2004	2	27		kelch	wcol radio interview	elyria	steelhead fishery, consuming fish					XX
2004	2	27		Snyder	Ohio Sea Grant Staff	Port Clinton	Fishery Poster Conf. Call	5				
2004	3	1		Lucente	Local Govt. Leadership Academy	Toledo	Local Government Leadership	14	x	x		
2004	3	1		Snyder	Terra College Elder College Program	Port Clinton	Lake Erie Ecosystem	14				
2004	3	1		Williams	Junior Achievement	Cleveland	Life Skills	30				
2004	3	2		Lucente	Bo Loeffler, Chic Elum, Fred Snyder	Port Clinton	Local Business Development	3				
2004	3	2		Snyder	Port Clinton Businessmen	Port Clinton	OSU Performing Arts Center					
2004	3	2		Williams	AveryDennison	Painesville	Business Development	4				
2004	3	2		Williams	PODS	Columbus	Business Development	4				
2004	3	2		Williams	Pre-employment Training	Cleveland	Life Skills	5				
2004	3	2		Williams	Akron Region dev	Akron, Oh	SAE Machine Trade Shows	4				
2004	3	3		kelch	lake erie nature & science center	bay village	steelhead seminar	105	x	x		
2004	3	4		kelch	wcol buckeye sportsman radio show	columbus	fish consumption, steelhead					xxx
2004	3	4		Lucente	Greg Davis, Cheryl Barber, OSU Ext.	Toledo	Conference Call- Leadership Dev.	3				
2004	3	4		Williams	downtown office task force	Cleveland	marketing-downtown	19				
2004	3	5		Williams	Junior Achievement	Cleveland	Success Skills	30				
2004	3	6		Hageman	Ohio Charter Captains Conference	Sandusky	Lake Erie Update Conference	160				
2004	3	6		kelch	Ohio Charter Captains Conference	Sandusky	dead zone, display, publications	160				
2004	3	6		Lichtkoppler	Ohio Charter Captains Conference	Sandusky	Charter Survey Results	160				
2004	3	6		Lucente	Ohio Charter Captains Conference	Sandusky	Annual Charter Captain's Conf.	160				
2004	3	6		Snyder	Ohio Charter Captains Conference	Sandusky	Charter Business Management	160	x	x		
2004	3	7		Hageman	Pheasants Forever State Council	Roundhead	Quarterly Meeting				8	
2004	3	8		Lucente	Local Govt. Leadership Academy	Toledo	Local Government Leadership	14	x	x		
2004	3	8	11	Williams	SAE Show	Detroit, MI	Business Development	600				
2004	3	9		Lichtkoppler	Grand River Partners	Painesville	Land Use	23				
2004	3	9		Lucente	OSU Ext. Land Use Team	Toledo	Conf. Call- Issue Framing	16				
2004	3	9		Snyder	Toledo Blade Interview	Port Clinton	New Walleye Regulations					XX
2004	3	10		kelch	grifton lions club	grifton	lake erie update/info	32				
2004	3	10		kelch	midview high school biology classes	grifton	lake erie dead zone	67				
2004	3	11		kelch	cleveland sport show	cleveland	set up sea grant display			x		
2004	3	11		kelch	cleveland fishing association	cleveland	lake erie dead zone	57				
2004	3	11		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	12				
2004	3	11		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED MTG.	32				
2004	3	12		Snyder	West District Extension Staff	Findlay	Applied Research Inservice	22		x		
2004	3	13	21	kelch	Cleveland Sports & Outdoor Show	cleveland	Sea Grant Information Booth		x	x		XX
2004	3	13	21	Lichtkoppler	Cleveland Sports & Outdoor Show	Cleveland	Sea Grant Information Booth					XX
2004	3	13	14	Snyder	Cleveland Sports & Outdoor Show	Cleveland	Sea Grant Information Booth					XX
2004	3	15		Hageman	Pheasants Forever, Chapter 291	Oak Harbor	Monthly Board Meeting	8				
2004	3	15		Lucente	Local Govt. Leadership Academy	Toledo	Local Government Leadership	14	x	x	x	
2004	3	16	18	Hageman	Candidates for Employment	Columbus	Stone Lab Summer Employment	17				
2004	3	16		kelch	clean marinas program meeting	marblehead	planning, review draft bmp				x	
2004	3	16		kelch	governors submerged land a/c mtg	lorain	pass resolutions, elections	5				
2004	3	16		Lichtkoppler	MARC/SAMP	Mentor	MARC Development	8				
2004	3	16		Snyder	Marina Mangers & Agencies	Port Clinton	Clean Marinas Pilot	25		x		
2004	3	16		Williams	OEDC Mtg-columbus	Columbus	Business Development	12				
2004	3	17		Snyder	Ohio Sea Grant Staff	Columbus	Materials Pickup	10				
2004	3	18		Snyder	Fremont City News Interview	Port Clinton	Lake Erie Outlook					XX
2004	3	18		Snyder	Cleveland Sports & Outdoor Show	Cleveland	Sea Grant Information Booth					XX
2004	3	19		Hageman	Scholarship Committee	Columbus	Stone Lab Scholarship Awards				9	
2004	3	19		Lichtkoppler	LECO Exec Comm	Bay Village	Lake Erie Coastal Ohio Program	5				
2004	3	19		Lichtkoppler	LECO Board of Directors	Bay Village	Lake Erie Coastal Ohio Program	20				

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2004	3	19		Lucente	West District Office	Findlay	District Office Conference	14				
2004	3	19		Snyder	West District Extension Staff	Findlay	Staff Meeting	13				
2004	3	19		Snyder	BGSU Firelands Students	Huron	AIS Impacts on Lake Erie	23				
2004	3	19		Williams	ODA-fundamental of ED/Circleville, Oh		Business Development	35				
2004	3	20		Hageman	Bio-Sci Alumni/FOSL	Columbus	Buckeye Hop Planning Meeting				8	
2004	3	20		kelch	bgsu firelands campus biology 101	huron	dead zone pres to bio 101 class	17				
2004	3	20		Snyder	Cleveland Sports & Outdoor Show	Cleveland	Sea Grant Information Booth					XX
2004	3	21		Hageman	Cleveland Sports Show	Cleveland	Ohio Sea Grant Display Booth					XX
2004	3	21		Snyder	Toledo Area Citizens	Toledo	Lake Erie Issues Update	65				
2004	3	22		Hageman	Coastal Ohio	Oregon	Lake Erie Eco-Tourism	45				
2004	3	22		Lucente	Lake Erie Coastal Ohio Workshop	Oregon	Present Lake Erie Info.	24				
2004	3	22		Lucente	Local Govt. Leadership Academy	Toledo	Local Government Leadership	14	x	x		
2004	3	23		Lucente	OSU Extension Update	Bowling Green	Budget Update	21				
2004	3	23		Snyder	Coastal Ohio Portal Training	Huron	Lake Erie Issues Update	48				
2004	3	24		kelch	sea camp conference call	elyria	2004 camp planning	10				
2004	3	24		Lichtkoppler	LECO Tourist	Kirtland	Lake Erie Issues	30				
2004	3	24		Williams	SunSet Industires/euclid	Euclid, Oh	Business Development	3				
2004	3	25		Lichtkoppler	Scientists, agency officials, citizens	Erie, PA	LE Botulism Workshop	38				
2004	3	25		Williams	Exploring the Relationship between	CSU	Continuing ED					
2004	3	26	27	Hageman	Pheasants Forever, Chapter 291	Sandusky	Annual Banquet			330		
2004	3	26		kelch	beaver park marina	lorain	cmp & research vessel needs	3				
2004	3	26		Lucente	Jerry Thomas, Greg Davis, OSU Ext.	Findlay	Program Planning	3				
2004	3	26		Williams	CoreNet partners meeteing/columbus	Columbus	Business Development					
2004	3	29		Lucente	Local Govt. Leadership Academy	Toledo	Local Government Leadership	14	x	x		
2004	3	29		Snyder	West District AG/NRE	Lima	Research Center Development	7				
2004	3	31		Hageman	Northwest Ohio Teachers	Toledo	Water in Our Environment WS	105				
2004	3	31		kelch	lorain county visitors bureau board mtg	lorain	tourism planning.				x	
2004	3	31		Lichtkoppler	ARP Meetings	Ashtabula	Ashtabula River Cleanup	25				
2004	3	31		Snyder	Fremont High School Students	Fremont	Viet Nam Experiences	150				
2004	4	2		Hageman	Amy Aerni	Catawba Island	Shadowing Opportunity			3		
2004	4	2		Snyder	West District Extension Staff	Findlay	Moser Address; New Districts	15				
2004	4	5		kelch	vermillion lions club	vermillion	lake erie dead zone	35				
2004	4	6		Snyder	OSU Extension	Columbus	Spring Conference				200	
2004	4	7		Snyder	Cleveland State Univ. Researchers	Port Clinton	Education Interview	4				
2004	4	7		kelch	lorain county visitors bureau board mtg	lorain	policy committee meeting	8	x			
2004	4	8		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	30				
2004	4	9		Lucente	Robert McCall, OSU Watershed Ag.	Toledo	Conference Call	2	x	x		
2004	4	9		kelch	osu extension directors internal a/c	columbus	extension issues/concerns	19				
2004	4	13		kelch	elyria kiwanis club luncheon	elyria	lake erie dead zone	42				
2004	4	14		Snyder	Lake Erie Commission	Bay Village	Quarterly Update				75	
2004	4	14		kelch	lake erie commission meting	bay village	lake erie issues/concerns				x	
2004	4	15		Hageman	Wynford High School - Bucyrus	Gibraltar Island	Aquatic Science Workshop Progra	41				
2004	4	15		kelch	lake erie update/walleye seminar	bay village	fisheries update/angling/biology	78				
2004	4	16		Hageman	Newark Catholic High School	Gibraltar Island	Aquatic Science Workshop Progra	12				
2004	4	16		Lucente	West District Office	Findlay	District Office Conference	14				
2004	4	16		Snyder	West District Extension Staff	Findlay	Office Conference	12				
2004	4	16		kelch	cfaes faculty council meeting	oardc/wooster	faculty issues/university senate	24				
2004	4	17	18	Hageman	Friends of Stone Lab	Gibraltar Island	Spring Work Weekend			14		
2004	4	19		Hageman	Pheasants Forever, Chapter 294	Oak Harbor	Monthly Board Meeting	4				
2004	4	20		Hageman	Ohio Sea Grant Staff	Columbus	Staff Conference Call				8	
2004	4	20		Lichtkoppler	Sea Grant Staff	Painesville	Staff Conference Call				6	
2004	4	20		Lucente	Ohio Sea Grant Staff	Toledo	Staff Conference Call	8				
2004	4	20		Snyder	Ohio Sea Grant Staff	Port Clinton	Staff Conference Call	7				
2004	4	20		kelch	Ohio Sea Grant Staff	elyria	Staff Conference Call				x	

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Table E-2: Ohio Sea Grant Extension Combined Activities 2004

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2004	4	21		kelch	lake erie update/walleye seminar	ashland	fisheries update/angling/biology	47				
2004	4	22	23	Hageman	Rootstown High School	Gibraltar Island	Aquatic Science Workshop Progra	30				
2004	4	22		Lichtkoppler	Great Lakes Commission	Painesville	Sustainability Conference conf call				12	
2004	4	22		Lucente	OSU Extension Smart Growth Comm.	Columbus	National Issues Forum Mtg.	22				
2004	4	22		Snyder	Fulton Co. Pond Owners	Wauseon	Farm Pond Management	35				
2004	4	22		kelch	central basin charterboat association	lorain	dead zone, fisheries update	37				
2004	4	23		Snyder	West District Extension Staff	Findlay	Griffiths Retirement				60	
2004	4	23		kelch	lake erie bass anglers club	elyria	lake erie update/info	26				
2004	4	25	28	Snyder	Sea Grant Program Leaders	Jekyll Island, GA	Assembly Meeting	65				
2004	4	26		Lichtkoppler	Citizens	Painesville	Mentor Marsh & Development				3	
2004	4	27		Hageman	Bucyrus High School	Gibraltar Island	Aquatic Science Workshop Program			25		
2004	4	27		Hageman	O.S.U. Extension	Gibraltar Island	West District Office Conference				90	
2004	4	27		Lichtkoppler	OSUE Faculty	Painesville	N Dist P&T conf call				5	
2004	4	27		Lichtkoppler	Citizens	Ashtabula	Fields Brook Restoration	50				
2004	4	27		Lucente	OSU Extension	Ada	Annual Spring Meeting	155				
2004	4	28	30	Hageman	Sewickley, Academy - Pittsburgh, PA	Gibraltar Island	Aquatic Science Workshop Progra	68				
2004	4	28		Lichtkoppler	ARP Meetings	Ashtabula	ARP cleanup of Ashtabula River				23	
2004	4	29		Lichtkoppler	Clean Boater Meeting	Bay Vilage	Ohio Clean Boater Program				5	
2004	4	29		Lucente	Don Lacy, OSU Extension	Toledo	Conference Call	2		x		
2004	4	30		Hageman	Kenwood Elementary - Bowling Green	Gibraltar Island	Aquatic Science Workshop Progra	81				
2004	4	30		Lichtkoppler	Aquarium PETs conf call	Painesville	AIS Aquarium Project				7	
2004	4	30		kelch	lorain port authority meeting	lorain	port development, angling	6				
2004	5	3		Hageman	Bellevue Jr. High School	Gibraltar Island	Aquatic Science Workshop Program			27		
2004	5	3		Williams	PET	Cleveland	Business Development	16				
2004	5	4		Hageman	Rocky River High School	Gibraltar Island	Distance Learning Program-Fish La	12				
2004	5	4		Lichtkoppler	Great Lakes Commission	Cleveland	GLC Semi Annual meeeting	200				
2004	5	4		Snyder	Mayor's Core Group	Port Clinton	Transient Marina Development	13		x		
2004	5	4		Williams	Economic Deve Breakfast Club	Cleveland	Business Development	5				
2004	5	4		Williams	Growth Capital	Cleveland	Staff Mtg	6				
2004	5	4		Williams	Screen Art Products	Cleveland	Business Development	3				
2004	5	5		Hageman	Oregon High School	Gibraltar Island	Aquatic Science Workshop Program			22		
2004	5	5	6	Hageman	Laurel School - Shaker Heights	Gibraltar Island	Aquatic Science Workshop Program			43		
2004	5	5	6	Lichtkoppler	Regional Leaders	Cleveland	GLC Sustainability Conference				50	
2004	5	5		Lichtkoppler	Aquarium PETs conf call	Painesville	AIS Surveys				5	
2004	5	5		Lucente	Robert McCall, OSU Watershed Ag.	Toledo	Confrence Call- Leadership	2	x	x		
2004	5	5		kelch	lorain cty ces pond clinic	elyria	pond mgt issues	72				
2004	5	6		Hageman	Toledo Zoo Educators	Gibraltar Island	Facilities Tour	8				
2004	5	6		Williams	Pyramid Plastic	Cleveland	Business Development	3				
2004	5	6		Williams	S. Strnicha	Cleveland	Business Development	3				
2004	5	6		Williams	Metal Management	Cleveland	Business Development	2				
2004	5	6		kelch	west cleveland walleye association	cleveland	lake erie update/info	45				
2004	5	7		Hageman	Shelby Hand/Any Aerni	Gibraltar Island	Shadow Tour			2		
2004	5	7	8	Hageman	Pleasant View M.S. - Grove City	Gibraltar Island	Aquatic Science Workshop Program			29		
2004	5	7		Snyder	WCPN Radio Interview	Cleveland	Lake Erie Issues					XX
2004	5	10		Hageman	Amherst Steele - Amherst	Gibraltar Island	Aquatic Science Workshop Program			30		
2004	5	10		Hageman	Ford Middle School - Brookpark	Gibraltar Island	Aquatic Science Workshop Program			34		
2004	5	10		Snyder	OSU Extension	Port Clinton	Prof. Improvement Conf. Call	18				
2004	5	10		Williams	Economic Development Network	Cleveland	Conference Call	5				
2004	5	10		kelch	black river remedial action committee	elyria	black river cleanup issues				x	
2004	5	11		Hageman	Elderhostel I	Gibraltar Island	Aquatic Science Workshop Program			35		
2004	5	11	12	Lichtkoppler	Youth grades 4 to 7	Ashtabula	AIS classes Waterways Symposium				90	
2004	5	11		Williams	OEDCMtg Marysville Oh Honda Plant	Marysville, OH	OEDC	36				
2004	5	11		kelch	smallmouth bass/lake erie seminar	ashland	bass angling, fishery update	68				
2004	5	12		Hageman	O.S.U. Lima	Gibraltar Island	Aquatic Science Workshop Program			34		

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2004	5	12	13	Hageman	Woodside M.S. - Ft. Wayne, IN	Gibraltar Island	Aquatic Science Workshop Program			44		
2004	5	12		Snyder	Portage Elementary School Students	Port Clinton	Hooked on Fishing - Not Drugs	72				
2004	5	12		Williams	City of Cleveland-Cortney mcclain	Cleveland	Business Development	2				
2004	5	12		Williams	Agents Mtg	Cleveland	OSU	4				
2004	5	12		Williams	Glen Goode Shore Bank	Cleveland	Business Development	2				
2004	5	12		Williams	Screen Art Products	Cleveland	Business Development	3				
2004	5	12		Williams	Fishermans All Natural	Cleveland	Business Development	2				
2004	5	12		Williams	First Energy-Akron	Akron, Oh	Business Development	6				
2004	5	13		Hageman	Stone Lab Staff	Columbus	Pre-Summer Supply Run			6		
2004	5	13	14	Hageman	Perry/McCord M.S. - Worthington	Gibraltar Island	Aquatic Science Workshop Program			68		
2004	5	13		Lichtkoppler	Mentor Marsh Board of Management	Mentor	Marsh Management				14	
2004	5	13		Lucente	OSU Extension Tourism Conference	Lancaster	Tourism Conference	32				
2004	5	13		Snyder	Mid-Ohio Walleye Club	Mansfield	Lake Erie Issues	31				
2004	5	13		Williams	Terrel Mfg-Strongsville	Strongsville, Oh	Business Development	4	19			
2004	5	13		kelch	lcvb vip open house event	lorain	value of lake erie tourism	150				XX
2004	5	14		Hageman	Stone Lab Staff	Gibraltar Island	3-Department Meeting				10	
2004	5	14	16	Hageman	O.S.U. Limnology Class	Gibraltar Island	Class Field Trip - Culver	20				
2004	5	14		Lucente	Greg Davis, OSU Extension	Findlay	SPSS Leadership Data Analysis	2		x		
2004	5	14		kelch	lake erie wreck divers/mast mtg	vermilion	archeological wreck mapping				x	
2004	5	15		Hageman	O.S.U. Geology Class	Gibraltar Island	Class Field Trip -Krissek	12				
2004	5	15		kelch	lcvb public open house	lorain	tourism, lake erie				x	
2004	5	17		Hageman	Hudson Montessori	Gibraltar Island	Facilities Tour	30				
2004	5	17		Hageman	Richmond Heights Christian Academy	Gibraltar Island	Facilities Tour			15		
2004	5	17		Hageman	All Saints Catholic School - Rossford	Gibraltar Island	Aquatic Science Workshop Program			39		
2004	5	17		Hageman	Meadowlawn School I - Perkins Twp.	Gibraltar Island	Aquatic Science Workshop Program			28		
2004	5	17		Lichtkoppler	Sea Grant, University Researchers	Columbus	Economic Issues				10	
2004	5	17		Lucente	Sea Grant, University Researchers	Columbus	Economic Issues	12				
2004	5	17		Snyder	Sea Grant, University Researchers	Columbus	Economic Issues	17				
2004	5	17		Williams	PET	Cleveland	Business Development	16				
2004	5	17		kelch	Sea Grant, University Researchers	columbus	Economic Issues				x	
2004	5	18		Hageman	Meadowlawn School II - Perkins Twp.	Gibraltar Island	Aquatic Science Workshop Program			29		
2004	5	18		Hageman	Elderhostel II	Gibraltar Island	Aquatic Science Workshop Program			31		
2004	5	18	19	Hageman	Kelleys Island School	Gibraltar Island	Aquatic Science Workshop Program			5		
2004	5	18		Hageman	Olmstead Falls - Olmstead Twp.	Gibraltar Island	Facilities Tour	24				
2004	5	18		Hageman	South Amherst High School	Gibraltar Island	Facilities Tour	112				
2004	5	18	19	Hageman	West Carrollton M.S.	Gibraltar Island	Aquatic Science Workshop Program			20		
2004	5	18		Lichtkoppler	OSUE & SG Staff	Painesville	Staff Issues				5	
2004	5	18		Lichtkoppler	MARC Participants	Mentor on the Lake	MARC / Special Area Mgt Plan				10	
2004	5	18	21	Lucente	Southern Comm. Dev. Assoc. Conf.	Tampa, FL	Leadership Presentations	275		x		
2004	5	18		Williams	Growth Capital	Cleveland	Staff Mtg	4				
2004	5	18		Williams	Broadview Heights Mtg with mayor	Broadview Hts, Oh	Office location	4				
2004	5	18		kelch	sea camp conference call	elyria	2004 sea camp planning				x	
2004	5	19		Hageman	Gibsonburg M.S.	Gibraltar Island	Facilities Tour	101				
2004	5	19		Hageman	Meadowlawn School III - Perkins Twp.	Gibraltar Island	Aquatic Science Workshop Program			27		
2004	5	19	20	Hageman	Miamisburg Middle School	Gibraltar Island	Aquatic Science Workshop Program			66		
2004	5	19		Lichtkoppler	OSUE	Wooster	Spring Staff conference	100				
2004	5	19		Williams	North District Extension Mtg	Wooster						
2004	5	19		kelch	osue spring conference	wooster/oardc	professional development				x	
2004	5	20		Hageman	Meadowlawn School IV - Perkins Twp.	Gibraltar Island	Aquatic Science Workshop Program	29				
2004	5	20		Lichtkoppler	Aquarium PETs conf call	Painesville	AIS Surveys				5	
2004	5	20		Lichtkoppler	Fairport Rod & Reel	Fairport	Lake Erie fisheries & current issues				45	
2004	5	20		Lichtkoppler	GLC Boating Study Committee	Painesville	GLC boating study				6	
2004	5	20		Williams	NAM-conference	Columbus						
2004	5	20		kelch	midview middle school 8th grade class	grifton	lake erie, dead zone	32				

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2004	5	21		Hageman	Meadowlawn School V - Perkins Twp.	Gibraltar Island	Aquatic Science Workshop Program			27		
2004	5	21		Hageman	Rich Warren	Gibraltar Island	Article for Country Living Magazine	1				
2004	5	21		Hageman	Ohio & Ottawa Co. Tourism Bureau	Put-in-Bay	Island Tourism	3				
2004	5	21	22	Hageman	Village Academy - Powell, OH	Gibraltar Island	Aquatic Science Workshop Program			35		
2004	5	21		Snyder	West District Extension Staff	Bowling Green	District P&T Committee	5				
2004	5	21		Williams	Pyramid Plastic	Cleveland	Business Development	2				
2004	5	22	23	Hageman	Thomas More College	Gibraltar Island	Class Field Trip			9		
2004	5	24		Hageman	Whiteford M.S. - Ottawa Lake, MI	Gibraltar Island	Aquatic Science Workshop Program	80				
2004	5	24		Snyder	Toledo Blade Interview	Port Clinton	Freshwater Drum					XX
2004	5	24		Williams	PET	Cleveland	Business Development	16				
2004	5	25		Hageman	Lake H.S. - Millbury	Gibraltar Island	Aquatic Science Workshop Program			28		
2004	5	25		Hageman	South Amherst Middle School	Gibraltar Island	Aquatic Science Workshop Program			17		
2004	5	25	26	Hageman	Ducks Unlimited, Ohio EPA Invitees	Fremont	Wetlands & Water Quality Workshop				60	
2004	5	25		Williams	Economic Development Network Summit	Rollston, Oh	Education	70				
2004	5	25		kelch	marina owners meeting	Iorain	clena marina program	6				
2004	5	26	27	Hageman	Horizons Program - Toledo	Gibraltar Island	Aquatic Science Workshop Program			74		
2004	5	26	28	Lichtkoppler	IAGLR 04 Conference Participants	Waterloo, Canada	GL Charters , LE Steelhead				80	
2004	5	26		Williams	Williams Trucking	Solon, Oh	Business Development	20				
2004	5	27	28	Hageman	Erwine Middle School - Akron	Gibraltar Island	Aquatic Science Workshop Program	44				
2004	5	27		Lucente	Jill Banicki, OSU Sea Grant	Toledo	Conference Call	2				
2004	5	28	29	Hageman	Immaculate Conception - Bellevue	Gibraltar Island	Aquatic Science Workshop Program			68		
2004	5	28		Snyder	West District Extension Staff	Findlay	District P&T Committee	4				
2004	6	1	3	Hageman	Buckeye Valley M.S. - Radnor	Gibraltar Island	Aquatic Science Workshop Program			55		
2004	6	2		Williams	Tyler Elevator	Cleveland	Business Development	2				
2004	6	3		Hageman	Coastal Ohio Committee	Port Clinton	Lake Erie Islands Field Guide				13	
2004	6	3		Hageman	Amherst Jr. High - Amherst	Gibraltar Island	Aquatic Science Workshop Program			34		
2004	6	3		Hageman	Our Lady of Mount Carmel	Gibraltar Island	Facilities Tour	33				
2004	6	3		Lichtkoppler	Citizens	Mentor	Local Development				50	
2004	6	3		Williams	Zaytran Inc	elyria	Business Development	2				
2004	6	3		Williams	Washbash Alloys	Cleveland	Business Development	2				
2004	6	3		Williams	Milano Mounments	Brookpark, Oh	Business Development	2				
2004	6	3		Williams	All Staff Mtg-Extension	Cleveland	OSU					
2004	6	4		Hageman	Stone Lab Staff/Supervisors	Gibraltar Island	Public Safety Meeting				20	
2004	6	6		Hageman	EEOB 125 Students	Gibraltar Island	Stone Lab Orientation	10				
2004	6	6		Snyder	Western Basin Sportfishing Assoc.	Vermilion	Ohio Sea Grant Overview	35				
2004	6	7		Lichtkoppler	Pre retirement seminar	Wooster	retirement issues				24	
2004	6	7		Williams	Bendix corp	elyria	Business Development	6				
2004	6	7		Williams	Economic Development Conference Call	Cleveland	Planning Educational forum	5				
2004	6	7		kelch	osue seminar	wooster/oardc	professional development				x	
2004	6	8		Hageman	Stone Lab Departments	Columbus	Courier Run			1		
2004	6	8		Hageman	Kent State/Central St. University	Gibraltar Island	Aquatic Science Workshop Program			14		
2004	6	8		Lichtkoppler	Grand River Partners	Geauga Co.	River Preservation				8	
2004	6	8		Williams	Cuyahoga Rap	Broadview Hts, Oh	Sea Grant	13				
2004	6	8		Williams	Growth Capital	Cleveland	Business Development	5				
2004	6	9		Hageman	Grizzel M.S. - Dublin	Gibraltar Island	Aquatic Science Workshop Program			40		
2004	6	9		Hageman	Bruce Leach - Bio-Pharmacy Library	Gibraltar Island	Summer Library Prep			2		
2004	6	9		Lichtkoppler	Sea Grant Committee	Painesville	Sea Grant update				5	
2004	6	9	11	Snyder	Ontario Live Bait Dealers	Sudbury, Ontario	HACCP Training & Certification	32	x	x		
2004	6	9		Williams	CSU Regionalism mtg	Cleveland	Planning Educational forum	6				
2004	6	9		Williams	Extension Agent Mtg	Cleveland	osu					
2004	6	10		Lichtkoppler	Mentor Marsh Board of Management	Mentor	Marsh Management				12	
2004	6	10		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Meeting	30				
2004	6	10		kelch	westlake sportsman club	westlake	lake erie update/info	57				
2004	6	11		Hageman	Paul Zakriski	Gibraltar Island	Research Project Initiation			1		

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2004	6	11		Hageman	Columbus Athletic Club	Catawba Island	Walleye Tournament Judging	126				
2004	6	11		Lichtkoppler	Aquarium PETs conf call	Painesville	AIS Aquarium Project				8	
2004	6	11		Lucente	Bruce Clevenger, OSU Extension	Bowling Green	Vita Mentoring Mtg.	2		x		
2004	6	12		Hageman	Association Biology Lab Education	Gibraltar Island	Aquatic Science Workshop Program					
2004	6	12		kelch	pond days seminar, grafton landmark		pond mgt issues	103				
2004	6	13		Hageman	EEOB 126, 693 & NRE 614	Gibraltar Island	Stone Lab Orientation	24				
2004	6	14		Lichtkoppler	Sea Grant Program Leaders	Painesville	Great Lakes Sea Grant update	12				
2004	6	14		Lichtkoppler	Citizens	Mentor	Local Development/Land Use				45	
2004	6	14		Snyder	GLSGN Program Leaders	Port Clinton	Great Lakes Sea Grant update	12				
2004	6	14		Williams	OVA Meeting	Columbus	Business Development	39				
2004	6	15	16	Hageman	Stone Lab Departments	Columbus	Courier Run			1		
2004	6	15		Lichtkoppler	Ohio Sea Grant Staff	Painesville	Staff Conference Call	8				
2004	6	15		Lucente	Ohio Sea Grant Staff	Toledo	Staff Conference Call	8				
2004	6	15		Snyder	Ohio Sea Grant Staff	Port Clinton	Staff Conference Call	8				
2004	6	15		Snyder	Sandusky Register Interview	Port Clinton	Mayflies					XX
2004	6	15		Williams	Growth Capital-staff mtg	Cleveland	Business Development	5				
2004	6	15		Williams	OEDC	Columbus	Business Development	12				
2004	6	15		kelch	sea camp conference call	elyria	final plans, 2004 sea camp				x	
2004	6	16		Williams	Interstate Mc Bee	Cleveland	Business Development	3				
2004	6	16		Williams	Gutter Shutter Company	Cleveland	Business Development	3				
2004	6	16		Williams	Commercial Induction Co.	Cleveland	Business Development	3				
2004	6	17		Hageman	Dr. Rosanne Fortner Audience	Gibraltar Island	Research Lecture - On Line Educ.			26		
2004	6	17		Hageman	Dr. Linda Weavers Audience	Gibraltar Island	Guest Lecture - Sediment Remediation			26		
2004	6	17		Hageman	Pawlik Family	Gibraltar Island	Facilities Tour	11				
2004	6	17		Lucente	Econ. Dev. Information Coalition	Findlay	Economic Development Forum	46				
2004	6	17		Williams	Bendix corp	Elyria	Business Development	9				
2004	6	18		Snyder	Toledo Blade Interview	Port Clinton	Mayflies					XX
2004	6	18		Williams	Tax Credit committee-Columbus	Cleveland	Business Development	10				
2004	6	20		Hageman	Term One & Week 3 Students	Gibraltar Island	Stone Lab Orientation	27				
2004	6	21		Hageman	Dr. Larry Capitini	Gibraltar Island	Laboratory Animal Protocol Training			20		
2004	6	21		Hageman	Drs. Capitini, Tallman, Frolicker	Stone Lab	Laboratory Animal Protocol Inspe	4				
2004	6	21		Snyder	Port Clinton News Herald Interview	Port Clinton	Mayflies					XX
2004	6	21		Snyder	Lorain Journal Interview	Port Clinton	Mayflies					XX
2004	6	22	23	Hageman	Stone Lab Departments	Columbus	Courier Run			1		
2004	6	22		Lichtkoppler	MARC Participants	Mentor on the Lake	MARC / Special Area Mgt Plan				9	
2004	6	22		Lichtkoppler	Ashtabula OSUE Adv Committee	Jefferson	Lake Erie fisheries & currrent issues				20	
2004	6	23		Snyder	Pittsburgh Tribune Interview	Port Clinton	Mayflies					XX
2004	6	24		Hageman	Dr. Michael Hoggarth Audience	Gibraltar Island	Research Lecture - Mussels			49		
2004	6	24		Hageman	Dennis Shornack Audience	Gibraltar Island	Guest Lecture - Invasive Species			49		
2004	6	24		Lichtkoppler	OEPA/ Citizens	Painesville	Land Use / Wetland Loss				25	
2004	6	25		Hageman	American Water Works Association	Gibraltar Island	Aquatic Science Workshop Progra	11				
2004	6	25		Lichtkoppler	OSUE CD agents	Painesville	Sustainable CD conf call				8	
2004	6	25		Lichtkoppler	LECO Ex Comm & Full Board	Mentor	LECO Project / Mentor Lagoons				12	
2004	6	25		Snyder	LECO Ex Comm & Full Board	Mentor	LECO Project / Mentor Lagoons	15				
2004	6	26		kelch	women in the outdoors event	medina	basic angling, fish biology	64				
2004	6	27		Hageman	Geo 107 and Nat 690 Students	Gibraltar Island	Stone Lab Orientation	24				
2004	6	27	30	kelch	21st ohio 4-h sea camp	kelleys island	youth aquatic ed programs	83				
2004	6	28		Williams	Economic Development Network-Akron	Akron, Oh	Educatio forum	5				
2004	6	28		Williams	Growth Capital staff meeting	Cleveland	Business Development	5				
2004	6	29		Hageman	BGSU Governors Summer Institute	Gibraltar Island	Aquatic Science Workshop Program			34		
2004	6	29		Hageman	Stone Lab Departments	Columbus	Courier Run			1		
2004	6	29		Lichtkoppler	Aquarium PETs conf call	Painesville	AIS Aquarium Project				7	
2004	6	29		Williams	Joe Pattenery- Network Membership Or	Cleveland	Business Development	2				
2004	6	29		Williams	ODA-merger meeting with OEDC	Columbus	Business Development	7				

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2004	6	30		Hageman	Kelley's Island 4-H Sea Camp	Gibraltar Island	Aquatic Science Workshop Program			14		
2004	6	30		Lichtkoppler	ARP Meetings	Ashtabula	ARP cleanup of Ashtabula River				18	
2004	6	30		Lucente	Great Lakes Commission, Agencies	Sandusky	Roundtable Steering Comm. Mtg	18				
2004	6	30		Snyder	NW Sea Grant Advisory Committee	Port Clinton	Program Update & Planning	10	x	x		
2004	6	30		Williams	ACT Training for Growth Staff	Cleveland	Business Development	5				
2004	7	1		Hageman	Ottawa National Wildlife Refuge	Gibraltar Island	Facilities Tour	19				
2004	7	1		Hageman	Visitors for Guest Lecture	Gibraltar Island	Ohio Chief Justice Tom Moyer Lecture			7		
2004	7	1		Williams	ED Network Regionalism forum	Cleveland	Program Development	9				
2004	7	1		Williams	ACT Training for Growth Staff	Cleveland						
2004	7	1		kelch	21st ohio 4-h sea camp last day	kelleys island	youth aquatic ed programs	83				
2004	7	2		Hageman	Sea Grant Extension Staff	Bay Village	Interview Candidates, Fisheries Ext. Ag.				8	
2004	7	2		Lichtkoppler	Sea Grant Staff	Bay Village	Fish Ext Interviews	8				
2004	7	2		Lucente	OH Sea Grant Extension Staff	Cleveland	Sea Grant Fisheries Interviews	9				
2004	7	2		Snyder	Ohio Sea Grant Staff	Bay Village	Fisheries Agent Interviews	15				
2004	7	2		kelch	sea grant fee interviews	bay village	interview applicants for fee job	13				
2004	7	3		Hageman	Rebecca & Stacey Boston	Gibraltar Island	Career in Marine Biology w/Dr. Krissek			3		
2004	7	6		Hageman	Sea Grant Conference Call	Columbus	Fisheries Extension Agent Selection			8		
2004	7	6		Lichtkoppler	GL Sea Grant Agents	Painesville	AIS Grants Conference Call	6				
2004	7	6		Lucente	OH Sea Grant Extension Staff	Toledo	Conference Call- Interview/Cand.	6				
2004	7	6		Snyder	GLSGN Committee Conf. Call	Port Clinton	AIS Research	10				
2004	7	6		Snyder	Port Clinton City Council	Port Clinton	Transient Marina Presentation	22		x		
2004	7	6		kelch	black river rap committee meeting	sheffield village	black river cleanup issues				x	
2004	7	7		Hageman	ODNR and Outdoor Press	Port Clinton	Governors Fish Ohio Day				90	
2004	7	7		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History Tour			10		
2004	7	7		Lucente	OSU Extension Watershed Educators	Fremont	Ohio Watershed Leaders	3	x			
2004	7	7		Snyder	Outdoor Writers, State Agencies	Port Clinton	Fish Ohio Day				150	
2004	7	8		Hageman	Krach	Gibraltar Island	Facilities Tour	4				
2004	7	8		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	12				
2004	7	8		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	32				
2004	7	9		Lichtkoppler	AIS Aquarium Grant Partners	Painesville	Survey Design	4				
2004	7	9		Williams	Bendix Corp With Arnold Lockett	elyria	Business Development	5				
2004	7	9		Williams	Mike Desort-Pyrmaid Plastic	Cleveland	Business Development					
2004	7	10		kelch	elyria/grafton boy scouts campout	Wellington	basic fisheries & aquatic biology	36				
2004	7	11		Hageman	EEOB 125 and NRE 629 students	Gibraltar Island	Stone Lab Orientation	25				
2004	7	13		Hageman	BGSU Governors Institute	Gibraltar Island	Aquatic Science Workshop Program			16		
2004	7	13		Snyder	Mayor's Core Group	Port Clinton	Transient Marina Development	14		x		
2004	7	13		Williams	Growth Capital staff meeting	Cleveland	Business Development	5				
2004	7	13		Williams	Chicago SBA loan review	Cleveland	Business Development	5				
2004	7	14		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History Tou	27				
2004	7	14		Lichtkoppler	AIS Aquarium Grant Partners	Painesville	HabitattitudeTM	7				
2004	7	14		kelch	clean marina program conf call	elyria	clean marina program planning				x	
2004	7	15		Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. Rosol-Lightning Bug/Cancer Rsch			7		
2004	7	15		Lichtkoppler	AIS Aquarium Grant Partners	Painesville	Survey Design	4				
2004	7	15		Snyder	Woodside Fish Farm	Bellevue	Yellow Perch Culture	8				
2004	7	15		Snyder	Port Clinton Citizens	Port Clinton	Transient Marina Presentation	19		x		
2004	7	15		Williams	Terrell Mfg	Strongsville, Oh	Business Development	3				
2004	7	15		Williams	HP Realty One Presentation-State of ec	Independence	Presentation	38				
2004	7	15		Williams	State & Federal Legislators, Agencies	Sandusky - Stone Lab	State & Federal Legislative Day	160				
2004	7	16		Hageman	State & Federal Legislators, Agencies	Sandusky - Stone Lab	State & Federal Legislative Day	160				
2004	7	16		Lichtkoppler	State & Federal Legislators, Agencies	Sandusky - Stone Lab	State & Federal Legislative Day	160				
2004	7	16		Lucente	State & Federal Legislators, Agencies	Sandusky - Stone Lab	State & Federal Legislative Day	160				
2004	7	16		Snyder	State & Federal Legislators, Agencies	Sandusky - Stone Lab	State & Federal Legislative Day	160		x		
2004	7	16		kelch	State & Federal Legislators, Agencies	Sandusky - Stone Lab	State & Federal Legislative Day	160				
2004	7	18		Hageman	GEO 583 and ENT 126 Students	Gibraltar Island	Stone Lab Orientation	18				

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YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP/No.	MASS MEDIA
2004	7	18	21	Lucente	Community Development Society	Cleveland	Local Government Leadership	365				
2004	7	19		Lichtkoppler	AIS Aquarium Grant Partners	Painesville	HabitattitudeTM	6				
2004	7	19		Lichtkoppler	GL Sea Grant Agents	Painesville	Kiosk Preproposal Conf Call	6				
2004	7	19		Snyder	Port Clinton News Herald Interview	Port Clinton	Mayflies					XX
2004	7	20		Lichtkoppler	GL Sea Grant Agents	Painesville	Kiosk Preproposal Conf Call	5				
2004	7	20		Lichtkoppler	Extension Professionals	Geneve on the Lake	Lake Erie Ecology & Issues	35				
2004	7	20		Williams	Growth Capital staff meeting	Cleveland	Business Development	5				
2004	7	20		Williams	CD conference tour	Cleveland	OSU Ext programming	37				
2004	7	20		kelch	osu extension directors internal a/c	columbus	extension issues/concerns				x	
2004	7	20		kelch	governors submerged land a/c mtg	vermilion	u/w resources issues/concerns	18				
2004	7	21		Hageman	Nature Camp at the Bay	Gibraltar Island	Aquatic Science Workshop Program			13		
2004	7	21		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History Tou	13				
2004	7	21		Lichtkoppler	Graduate students	Lake shore	Lake Erie Grology Tour	8				
2004	7	21		Williams	OEDC	Cleveland	Columbus	20				
2004	7	22		Snyder	London, Ontario Free Press Interview	Port Clinton	Rusty Crayfish					XX
2004	7	22		Williams	City of Brooklyn TBZ	Brooklyn	Business Development	4				
2004	7	22		kelch	lorain county bass busters club	sheffield village	lake erie updates	16				
2004	7	23		Lichtkoppler	LECO Ex Comm	Lorain	Lake Erie Coastal Tourism	6				
2004	7	24		Hageman	EEOB 692 Class	Put-in-Bay	Ichthyoplankton ID Workshop	3				
2004	7	25		Hageman	EEOB125,653,ENT612,BOT611 Class	Gibraltar Island	Stone Lab Orientation	28				
2004	7	25	31	Snyder	EEOB 125 Students (OSU)	Stone Lab	Intro to Aquatic Biology - 3 credit h	50	x			
2004	7	26	28	Hageman	Bowser Family	Gibraltar Island	Gibraltar Is. Tour and Science Cru	12				
2004	7	26	31	Riesen	Intro Aquatic Biology course	Stone Lab	participant in course				10	
2004	7	26		kelch	new fee agent training	bay village	begin new agent training with fee				x	
2004	7	28		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History Tou	24				
2004	7	28		Lichtkoppler	Ashtabula River Partnership	Ashtabula	ARP Project & Coordinatinng Com	30				
2004	7	28		kelch	lcvb policy sub-committee meeting	lorain	rewriting bureau handbook, regs	7				
2004	7	29		Hageman	Visitors for Guest Lecture	Gibraltar Island	Leon Carl, Dam Removal & Fisheries			5		
2004	7	29		Lichtkoppler	GL Sea Grant Agents	Painesville	Kiosk Preproposal Conf Call	5				
2004	7	29		Lichtkoppler	Painesville Kiwanis	Painesville	Lake Erie Fisheries	12				
2004	7	29		Lichtkoppler	Chagrin River Salmon Association	Eastlake	Lake Erie Issues	61				
2004	7	29		Lucente	Local elected officials	Put-In-Bay	TMACOG Annual Mtg.	175				
2004	7	29		Riesen	Lake Erie Nature and Science Center S	Bay Village	Staff Meeting				5	
2004	7	30		Hageman	Lorain Community College	Gibraltar Island	Aquatic Science Workshop Program			7		
2004	7	30		Hageman	Chief, Div. Of Wildlife	Gibraltar Island	Conference Room Facilities	3				
2004	7	30	31	Hageman	State Council, Pheasants Forever	Toledo	Summer Business Meeting	75				
2004	7	30		Lichtkoppler	GL Commission & SG Agents	Painesville	GLOS Briefing	8				
2004	8	2		Lichtkoppler	PLC Planning Commission Director	Painesville	MARC / SAMP	2				
2004	8	2		Williams	Kevein Smotzer City of Cleveland-Inter	Cleveland	Business Development	3				
2004	8	2	5	kelch	new fee agent training	bay village, lorain, cleve	new agent training, familiarization				x	
2004	8	3		Hageman	National Wildlife Fed. & Guests	Gibraltar Island	Science Writers Tour	41				
2004	8	3		Lichtkoppler	Key Leaders	Stone Lab	Lake Erie Issues	20				
2004	8	3		Snyder	Ohio Lake Erie Commission	Huron	Large Grant Proposal Review	15				
2004	8	3		Riesen	Great Lakes Reporters Tour	Stone Lab	observer				25	XX
2004	8	3		Williams	Call Scott Morrow-	Cleveland	Business Development	2				
2004	8	4		Hageman	Toledo Zoo Education Dept.	Gibraltar Island	Aquatic Science Workshop Program			9		
2004	8	4		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History Tou	17				
2004	8	4		Lichtkoppler	GL Sea Grant Agents	Painesville	Kiosk Preproposal Conf Call	7				
2004	8	4		Lucente	GLC Roundtable Steering Committee	Toledo	Conf. Call- Steering Committee	15				
2004	8	4		Williams	IMTS show Prep Columbus	columbus	Business Development	12				
2004	8	4		Williams	Growth Capital Team Mgt	Cleveland	Business Development	5				
2004	8	5		Hageman	Great Lakes Eco System Consortium	Gibraltar Island	GLAERC Annual Summer Meeting			45		
2004	8	5		Hageman	Visitors for Guest Lecture	Gibraltar Island	Geoff Wallat, Ohio Aquaculture			11		
2004	8	5		Lichtkoppler	GL Sea Grant Agents	Painesville	AIS Water Garden Preproposal	6				

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2004	8	5		Lichtkoppler	GL Sea Grant Agents	Painesville	AIS Education Preproposal	4				
2004	8	5		Snyder	OSUE Staff Conf. Call	Port Clinton	Water Garden AIS Proposal	4				
2004	8	5		Riesen	GLAERC conference	Stone Lab	observer				50	
2004	8	5		Williams	Volunteer Appreciation-Junior Achievern	Cleveland	volunteer	20				
2004	8	6	8	Hageman	Carmella Massaro Group	Gibraltar Island	Facilities Tour and Independent Rsch			3		
2004	8	6		Snyder	Clean Marinas Board	Sandusky	Materials Development	12				
2004	8	6		kelch	clean marina program meeting	sandusky	clean marina program planning				x	
2004	8	8		Riesen	Smallmouth Bass Anglers	Lorain	contacts, help with fish				200	
2004	8	9		Williams	Frank Lichtkoppler	Painesville	Vitae Prep	2				
2004	8	9	13	kelch	new fee agent training	bay village, lorain, cleve	new agent training, familiarization				x	
2004	8	10		Hageman	Ohio Sea Grant Extension	Lorain	Staff Meeting				9	
2004	8	10		Lichtkoppler	Sea Grant Staff	Lorain	Staff mEeting	8				
2004	8	10		Lucente	OH Sea Grant Staff	Elyria	Agent Staff Meeting	10				
2004	8	10		Snyder	Ohio Sea Grant Staff	Elyria	Staff Meeting	10				
2004	8	10		Riesen	Sea Grant Staff Meeting	Elyria	AIS proposals				9	
2004	8	10		Williams	Sea Grant Agents Mtg	Elyria	Staff Mtg	8				
2004	8	11		Hageman	Tour Group	S.Bass Lighthouse	South Bass Lighthouse History To	7				
2004	8	11		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History Tou	46				
2004	8	11		Williams	MB Dynamics	Bedford Hts.	Business Development	3				
2004	8	11		Williams	Chris Stong-National Association of ma	Cleveland	Business Development	2				
2004	8	11		Williams	Bob Howath-empowerment zone	Cleveland	Business Development	2				
2004	8	11		Williams	Shore bank Laura Klieman	Cleveland	Business Development	3				
2004	8	12		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14				
2004	8	12		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED MTG.	33				
2004	8	12		Snyder	GLSGN Committee Conf. Call	Port Clinton	Fisheries Extension Enhancement	11				
2004	8	12		Riesen	Fisheries Extension Conference Call	Painesville	Fisheries Extension Enhancement				10	
2004	8	12		Williams	Attila Falka- Snitzel company	Cleveland	Business Development					
2004	8	12		Williams	Carlzo Bernard Cardwell	Cleveland	Business Development					
2004	8	12		Williams	Marty Divito -site visit-osu ext,	Cleveland	Site Review					
2004	8	13		Williams	Ann culter Wedding Shop	Cleveland	Business Development					
2004	8	15		Hageman	EEOB 694 Class	Gibraltar Island	Stone Lab Orientation	8				
2004	8	16		Hageman	Great Lakes Historical Society	Gibraltar Island	Facilities Tour	14				
2004	8	16		Snyder	GLSGN Committee Conf. Call	Port Clinton	Network Awards	9				
2004	8	16		Snyder	Port Clinton Citizens	Port Clinton	Transient Marina Open House	23		x		
2004	8	16		Williams	Bendix Deal Team mtg	Elyria	Business Development	9				
2004	8	17		Riesen	Division of Wildlife	Fairport Harbor	Meeting/contact with DOW				2	
2004	8	17		Williams	Regionalism & Equity Mtg	Cleveland	Program Development	8				
2004	8	17		Williams	Growth Capital Team Mgt	Cleveland	Business Development	5				
2004	8	17		Williams	Jacon kettrick	Cleveland	Business Development	2				
2004	8	18		Hageman	Tour Group	S.Bass Lighthouse	South Bass Lighthouse History To	13				
2004	8	18		Hageman	Tour Group	Gibraltar Island	Gibraltar Is. Science & History Tou	37				
2004	8	18		Snyder	Fremont Citizens	Fremont	Ballville Dam Removal	26				
2004	8	18		Williams	Ray Headen	Cleveland	Business Development	2				
2004	8	18		Williams	Terrel Mfg-Strongsville	Stongsville	Business Development					
2004	8	19		Hageman	Coastal Resources Advis. Council	Gibraltar Island	Science Cruise and Meeting	13				
2004	8	19		Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. Yu Ping Chin-Photoremediation			1		
2004	8	19	20	Hageman	Mucaï Muchivi from Kenya	Gibraltar Island	Facilities Tour	1				
2004	8	19	20	Hageman	Bendik Fyha Terjesen from Norway	Gibraltar Island	Facilities Tour	1				
2004	8	19		Lichtkoppler	GL Commission	Painesville	Great Lakes Boating Study	5				
2004	8	19		Lucente	West Regional District Office	Findlay	Staff Meeting	14				
2004	8	19		Snyder	West District Extension Staff	Findlay	Extension Center Development	12				
2004	8	20		Snyder	Kelly Riesen	Port Clinton	Western Basin Familiarization	2				
2004	8	20		Riesen	Fred Snyder/Sea Grant	Camp Perry	Meeting with Sea Grant Agent				2	
2004	8	20		Williams	Gary Sosenko	Cleveland	Business Development					

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2004	8	23		Lichtkoppler	AIS Aquarium Grant Partners	Painesville	HabitattitudeTM	7				
2004	8	24		Hageman	Put-in-Bay Residents	Put-in-Bay	Town Hall Meeting RE:Island Illness				90	
2004	8	24	26	Snyder	American Fisheries Society Nat. Mtg	Madison, WI	Charter Industry Paper	50				
2004	8	24	26	Riesen	American Fisheries Society Nat. Mtg	Madison, WI	professional development				200	
2004	8	24		Williams	John Kilbane Business Mgr Laborers 31	Cleveland	Business Development	4				
2004	8	24		Williams	Shorebank	Cleveland	Business Development	3				
2004	8	24		Williams	Micheal Kaise	Cleveland	Business Development	2				
2004	8	24	26	kelch	American Fisheries Society Nat. Mtg	Madison, WI	present paper, steelhead research				x	
2004	8	25		Hageman	Tour Group	S.Bass Lighthouse	South Bass Lighthouse History To	6				
2004	8	25		Hageman	Tour Group	Gibraltar Island	Gibraltar Is.Science & History Tou	11				
2004	8	25		Hageman	Great Lakes Science Center	Gibraltar Island	Aquatic Science Workshop Program			10		
2004	8	25		Lichtkoppler	Ashtabula River Partnership	Ashtabula	ARP Project & Coordinating Com	25				
2004	8	25		Lichtkoppler	Ashtabula River Partnership & Friends	Ashtabula	Annual Meeting	45				
2004	8	25		Williams	Mine door Deal Team meeting	Cleveland	Business Development	6				
2004	8	25		Williams	Team neo project one	Cleveland	Business Development	4				
2004	8	25		Williams	Chris Warren Shorebank	Cleveland	Business Development	3				
2004	8	25		Williams	Chicogo Delli- Mr. Levine-business plan	Cleveland	Business Development	3				
2004	8	26		Lichtkoppler	Chagrin River Salmon Association	Eastlake	Lake Erie Dead Zone	41				
2004	8	26		Lucente	Ohio Watershed Leaders	Cleveland	Present-LE Balanced Growth	58				
2004	8	26		Williams	Urban league 2930 prospect micro ente	Cleveland	Business Development					
2004	8	27		Hageman	Genoa H.S. German Club	Gibraltar Island	Facilities Tour	16				
2004	8	30		Lucente	GLC Roundtable Steering Committee	Toledo	Conf. Call- Steering Committee	15				
2004	8	30		Riesen	Ohio Angling Association	Cleveland	Attend meeting/dead zone				35	
2004	8	30		Williams	laborer 310	Cleveland	Business Development	5				
2004	8	30		Williams	NCB Annn Zadcor	Cleveland	Business Development	3				
2004	8	30		Williams	Shawn Davis-Team Neo	Cleveland	Business Development	5				
2004	8	30		Williams	Chris Warren Shorebank	Cleveland	Business Development					
2004	8	30		kelch	cleveland fishing association	cleveland	lake erie dead zone	55				
2004	8	31		Lichtkoppler	Extension Agents	Brecksville	Regional Sustainability	10				
2004	8	31		Snyder	Ottawa SWCD	Oak Harbor	Staff Development Mtg.	35				
2004	9	1		Hageman	ODNR Staff	Gibraltar Island	Facilities Tour and Lunch	12				
2004	9	1	2	Hageman	Phillips-Osborne Sch-Painesville	Gibraltar Island	Aquatic Science Workshop Program			17		
2004	9	1		Lichtkoppler	Extension Staff	Painesville	Computer Training				11	
2004	9	1		Lucente	OSU Extension Land Use Team	Columbus	Land Use Mtg.	21				
2004	9	1		Snyder	Lucas County Pond Owners	Curtice	Farm Pond Management	29				
2004	9	1		Williams	Conference call Bendix	Cleveland	Business Development	16	9			
2004	9	1		Williams	Smart Growth committee-columbus	Columbus	Program Development	7				
2004	9	1	10	kelch	new fee agent training	bay village, Iorain, cleve	new agent training, familiarization				x	
2004	9	2	3	Hageman	Hathaway Brown Sch-Shaker Heights	Gibraltar Island	Aquatic Science Workshop Progra	70				
2004	9	2		Lichtkoppler	ODNR Watercraft	Columbus	Lake Erie Water Trail LECO					
2004	9	2		Snyder	West District Extension Staff	Port Clinton	Agric. Committee Conf. Call	5				
2004	9	2		Williams	Growth Capital staff meeting	Cleveland	Business Development	5				
2004	9	3		Hageman	OSU Development Officers	Gibraltar Island	Facilities Tour				3	
2004	9	3		Lucente	Kelly Riesen, Fisheries Coordinator	Toledo	Lucas County Tour and Intro.	2	x			
2004	9	3		Riesen	Meeting with Sea Grant Agent/Joe Luce	Toledo	familiarize/Toledo area				2	
2004	9	7	8	Hageman	Hilliard Station I	Gibraltar Island	Aquatic Science Workshop Program			35		
2004	9	7		Lichtkoppler	Mentor City Officials	Mentor	Marsh Preservation & Zaoning	25				
2004	9	7		Snyder	Mayor's Core Group	Port Clinton	Transient Marina Development	16		x		
2004	9	7		Snyder	Bay Pointe Marina	Danbury	Pond Management	5				
2004	9	7		Snyder	Western Basin Sportfishing Assoc.	Port Clinton	AIS Impacts in Lake Erie	27				
2004	9	7		Williams	Sam Chika Local 38 Electrical workers	Cleveland	Business Development	8				
2004	9	7		Williams	Chris Warren Shorebank	Cleveland	Program Development	44				
2004	9	8	9	Hageman	Hilliard Station II	Gibraltar Island	Aquatic Science Workshop Program			35		
2004	9	8		Lucente	GLC Roundtable Steering Committee	Toledo	Conf. Call- Steering Committee	15				

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2004	9	8		Snyder	Leadership Ottawa County	Oak Harbor	Lake Erie Issues Update	16				
2004	9	8		Williams	Julia Hess-Business Plan	Cleveland	Business Development	2				
2004	9	8		Williams	Regionalism & Equity Mtg	Cleveland	Program Development	8				
2004	9	8	16	Williams	IMTS travel	Chicago Il	Business Development					
2004	9	9	10	Hageman	Hilliard Station III	Gibraltar Island	Aquatic Science Workshop Program			37		
2004	9	9		Lichtkoppler	Citizens	Painesville Twp.	Coastal Ecology				16	
2004	9	9		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	41				
2004	9	9		Riesen	LENSC staff meeting	LENSC/Bay Village	Strategic planning				30	
2004	9	10		Hageman	Jefferson Elem. Port Clinton	Gibraltar Island	Aquatic Science Workshop Progra	46				
2004	9	10	12	Hageman	Friends of Stone Lab Board	Gibraltar Island	Homecoming Annual Meeting			25		
2004	9	10		Williams	Bio Tech Conference Call	Cleveland	Program Development	4				
2004	9	11		Hageman	Open House Visitors	S. Bass	South Bass Lighthouse History Tour			479		
2004	9	11		Hageman	Open House Visitors	Gibraltar Island	Gibraltar Island Open House			817		
2004	9	11	15	Riesen	Sea Grant Network Conference	Stone Lab	attend conference				75	
2004	9	11	15	kelch	great lakes sea grant network conf	put-in-bay	professional development				x	
2004	9	12		Hageman	Great Lake Sea Grant Conference	S. Bass	Tour of South Bass Island	6				
2004	9	12	15	Hageman	Great Lake Sea Grant Conference	Gibraltar Island	Conference			70		
2004	9	12	15	Lichtkoppler	Sea Grant Agents	Put-In-Bay	GL SG Network Conference	80				
2004	9	12	16	Lucente	Great Lakes Sea Grant Netwk. Conf.	Put-In-Bay	GL Network Conference	150				
2004	9	12	15	Snyder	Great Lakes Sea Grant Network	Put-in-Bay	Regional Conference	120	x	x		
2004	9	12		Williams	Rhonda Hardy, ILL Ext Program	Chicago Il	Program Development	2				
2004	9	12		kelch	glsng lake erie wreck snorkel trip	put-in-bay	shipwreck education for peers	4				
2004	9	15		Hageman	Bataan Elem.-Port Clinton	Gibraltar Island	Aquatic Science Workshop Program			45		
2004	9	15	16	Hageman	Evangel Christian HS-Gahanna	Gibraltar Island	Aquatic Science Workshop Progra	40				
2004	9	15		kelch	glsng conf, u/w preserves session	put-in-bay	chair session, presentation	28	x			
2004	9	16		Hageman	St. Marys of the Falls-Olmsted Fall	Gibraltar Island	Aquatic Science Workshop Program			18		
2004	9	16	17	Hageman	Dempsey M.S.-Delaware	Gibraltar Island	Aquatic Science Workshop Program			34		
2004	9	16		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	10				
2004	9	16	19	kelch	lemta in-water boat show	sandusky	clean marinas/osg display					XX
2004	9	17	18	Hageman	Milford Jr High-Milford	Gibraltar Island	Aquatic Science Workshop Program			60		
2004	9	17		Riesen	5th graders from various schools	Oak Harbor	Wetland/water education	500				
2004	9	18	24	Snyder	13th International AIS Conference	Ennis, Ireland	AIS Impacts in Lake Erie Paper	50			200	
2004	9	18		Riesen	steelhead anglers	Lake County Metroparks	information kiosk	200				
2004	9	19		Riesen	boaters/boat show	Sandusky	Clean boaters/Clean marinas	100				
2004	9	20		Hageman	West Holmes H.S.-Millersberg	Gibraltar Island	Aquatic Science Workshop Program			17		
2004	9	20	21	Hageman	The Wellington School-Columbus	Gibraltar Island	Aquatic Science Workshop Progra	56				
2004	9	20		Williams	Shorebank	Cleveland						
2004	9	20		Williams	Bio Tech	Cleveland	Program Development	5				
2004	9	20		Williams	Pipeline Mtg Shorebank	Cleveland	Business Development	7				
2004	9	20		Williams	Ann Zabcar NCB	Cleveland	Business Development	2				
2004	9	21		Hageman	Dr. Reutter and mother Gen	Gibraltar Island	Facilities Tour and Lunch				2	
2004	9	21		Lichtkoppler	MARC/SAMP	Mentor	Continue the MARC	11				
2004	9	21	23	Lichtkoppler	PET Industry Trade Show	Las Vegas, NV	HabitattitudeTM	100				
2004	9	21		Williams	oedc COLUMBUS	Cleveland	Business Development	16				
2004	9	22		Hageman	Franklin Elem.-Elyria	Gibraltar Island	Aquatic Science Workshop Progra	34				
2004	9	22		Williams	Turkey Hill dairy	Cleveland	Business Development	3				
2004	9	22		Williams	Douglas Hill business plan prep	Cleveland	Business Development	2				
2004	9	22		kelch	icvb board of directors meeting	lorain	tourism, steelhead impacts	22				
2004	9	23		Hageman	Portage Elem. Gypsum	Gibraltar Island	Aquatic Science Workshop Program			53		
2004	9	23		Hageman	Lake Erie Islands Chapter #074	Put-in-Bay	Ducks Unlimited Banquet			106		
2004	9	23	24	Hageman	Bellefontaine H.S.	Gibraltar Island	Aquatic Science Workshop Program			7		
2004	9	23		Williams	OSU site visits	Cleveland	Program Development	3				
2004	9	23		Williams	Faith Durden Buisness plan prep	Cleveland	Business Development	2				
2004	9	23		Williams	Peter Grunberg UL Inc	Cleveland	Business Development	2				

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YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2004	9	23		Williams	Cuyahoga Remedial Action	Cleveland	Sea Grant	17				
2004	9	24		Hageman	Lakota Jr High-Amsden	Gibraltar Island	Aquatic Science Workshop Program			34		
2004	9	24		Hageman	Gibsonburg M.S.	Gibraltar Island	Gibraltar Is. Science & History Tou	82				
2004	9	24		Lichtkoppler	LECO Ex Comm	Vermilion	LECO Mgt.	5				
2004	9	24		Lichtkoppler	LECO Board	Vermilion	Coastal Tourism	12				
2004	9	24		Riesen	fishing captain/Steve Carlson	Huron	on-water education/training				2	
2004	9	24		Williams	Bill McClung Regionalis & Equity prep	Cleveland	Program Development	2				
2004	9	24		Williams	Terrel Mfg-Strongsville	Strongsville, Oh	Business Development	3				
2004	9	25	26	Hageman	Buckeye Island Hop	Gibraltar Island	Community Service Projects			40		
2004	9	25		Riesen	Rocky River Watershed Festival/Familie	Rocky River	Sea Grant display	200				
2004	9	25		Williams	NOMBC BLACK TIE	Cleveland	Business Development	2				
2004	9	26		Hageman	Teacher/Students/Parents	Gibraltar Island	Stone Lab Open House	18				
2004	9	27		Hageman	Newark Catholic H.S.-Newark	Gibraltar Island	Aquatic Science Workshop Program					
2004	9	27		Hageman	Slimane & Osbourne from England	Gibraltar Island	Aquatic Science Workshop Progra	2				
2004	9	27	28	Hageman	Brecksville H.S.	Gibraltar Island	Aquatic Science Workshop Progra	23				
2004	9	27		Williams	Bill Ilatoni-H&R Inc	Westlake, Oh	Business Development	2				
2004	9	27		Williams	Marvin Hall Business Plan prep	Cleveland	Business Development					
2004	9	28		Hageman	Stacey Boston-Cardington	Gibraltar Island	Aquatic Science Workshop Progra	1				
2004	9	28		Hageman	Elderhostel Group III	Gibraltar Island	Aquatic Science Workshop Progra	30				
2004	9	28	29	Hageman	Worthingway M.S.-Worthington	Gibraltar Island	Aquatic Science Workshop Progra	62				
2004	9	28	29	Lichtkoppler	Tom Blaine	Painesville	JEM Paper Rewrite	2				
2004	9	28		Snyder	Sandusky County 4th Grade Students	Fremont	Aquatic Ecology	85				
2004	9	28	29	Riesen	Sandusky County 4th Grade Students	Fremont	Aquatic life	300				
2004	9	28		Williams	Business networking Strongsvile	Strongsville, Oh	Business Development	56				
2004	9	28		Williams	Growth Capital staff meeting	Cleveland	Business Development					
2004	9	28		kelch	Iorain sailing club	Iorain	lake erie dead zone	36				
2004	9	29	30	Hageman	Columbus School for Girls	Gibraltar Island	Aquatic Science Workshop Program			60		
2004	9	29		Williams	Douglas smith Business Plan Prep	Cleveland	Business Development	2				
2004	9	30		Lichtkoppler	SW Mgt Team	Painesville	Recycling Survey	5				
2004	9	30		Lucente	OSU Extension- State Comm. Dev.	Columbus	Strategic Planning	42				
2004	9	30		Riesen	kindergarten/Lake Erie Hike	Erie Nature and Science C	Lake Erie/Aquatic Life	18				
2004	9	30		Williams	CD Strategic plan Fawcett Center	Columbus	Program Development					
2004	10	1		Hageman	Mark Shieldcastle, OH Div. Of Wildlife	Oak Harbor	Goose Disease Outbreak	2				
2004	10	1		Hageman	Ohio Chapter, American Fisheries Soc.	Cleveland	Perch Fishing Clinic				22	
2004	10	1		Lichtkoppler	OSU Extension Faculty & Staff	Wooster	P&T	9				
2004	10	1		kelch	n region faculty p&t comm meeting	wooster/oardc	Faculty promotion & tenure	8	x	x		
2004	10	2		Hageman	Cleveland Treatment Center	Gibraltar Island	Aquatic Science Workshop Program			13		
2004	10	2		Hageman	Teachers	Gibraltar Island	Aquatic Science Workshop Progra	9				
2004	10	4		Hageman	OSU Development Office	Gibraltar Island	General Mason Visit	4				
2004	10	4		Hageman	Avon H.S.. - Avon	Gibraltar Island	Aquatic Science Workshop Program			28		
2004	10	4	5	Hageman	Jonathan Alders H.S.. - Plain City	Gibraltar Island	Aquatic Science Workshop Program			23		
2004	10	4		Williams	Economic Dev.	Cleveland	Business Dev.	3				
2004	10	4		Riesen	High school students/Envirothon	Lake County Metroparks	Aquatic life	80				
2004	10	5		Snyder	LECBA, Port Clinton Mayor	Port Clinton	Charter Captain Honors	15				
2004	10	5		Williams	Steve Rogers	Cleveland	Business Dev.	1				
2004	10	5		kelch	Iorain ctly ext adv com meeting	elyria	sea grant update	27				
2004	10	5		Riesen	Cleveland State University grad student	Cleveland	Lake Erie/Current Issues	50				
2004	10	5		Riesen	Black River Audubon Society	Carlisle Res./Metroparks	Dead Zone	35				
2004	10	6		Hageman	Rocky River M.S. - Rocky River	Gibraltar Island	Aq. Science Workshop Program			62		
2004	10	6		Hageman	Pheasants Forever, Chapter 291	Vickery	Monthly Board Meeting	6				
2004	10	6		Williams	Engergizer	Westlake	Strategic Planning	24				
2004	10	7		Snyder	Clean Marinas Staff	Columbus	Program Planning	10				
2004	10	7		Lichtkoppler	OSU Extension Faculty & Staff	Columbus	P&T	11				
2004	10	7		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	27				

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YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2004	10	7		Williams	Horwath Medical	Avon	Business Dev.	2				
2004	10	7		kelch	clean marina program meeting	columbus	workshop & program planning	12				
2004	10	8		Hageman	Owens Community College - Toledo	Gibraltar Island	Aquatic Science Workshop Program			7		
2004	10	8	9	Hageman	Granville Intermediate Sch. - Granville	Gibraltar Island	Aquatic Science Workshop Program			21		
2004	10	8		Williams	Economic Edu.	Cleveland	Regionalism & Equity		200			
2004	10	8		Riesen	fishing captain/Steve Carlson	Huron	on-water education/training	2				
2004	10	10		Lichtkoppler	Cleve Mus Nat Hist	Cleveland	Lake Erie / Sea Grant Exhibit	35				
2004	10	11	13	Hageman	Hudson M.S. I - Hudson	Gibraltar Island	Aquatic Science Workshop Program			37		
2004	10	11		Lichtkoppler	GLOS Committee	Painesville	GLOS Conf Call	8				
2004	10	11		Williams	Bardon & Oliver	Strongsville	Business Dev.	2				
2004	10	11		Williams	Dave Wagner	Cleveland	Site visit for ext office	3				
2004	10	11		Williams	Pre-employment	Cleveland	Budgeting & finance			15		
2004	10	12		Williams	Growth Capital	Cleveland	Staff mtg	5				
2004	10	12		Williams	David Otter	Strongsville	finance	2				
2004	10	12		Williams	Michael Occhionero	Cleveland	Site visit for ext office	3				
2004	10	12		kelch/riesen	cleveland woods & waters club	cleveland	lake erie dead zone	39				
2004	10	12		Riesen	LENSC staff meeting	Erie Nature and Science C	education initiatives	8				
2004	10	12		Riesen	Woods and Waters sports club	Cleveland	Dead Zone	30				
2004	10	12		Riesen	Ross Environmental professionals	Lorain CCC	contacts with co. visitors bureaus	50				
2004	10	13	15	Hageman	Hudson M.S. II - Hudson	Gibraltar Island	Aquatic Science Workshop Program			36		
2004	10	13		Lichtkoppler	Great Lakes Sea Grant Agents	Painesville	Kiosk Grant Proposal WI	6				
2004	10	13		Williams	Ext educators	Berea	Staff mtg	6				
2004	10	13		kelch	icvb policy sub-committee meeting	lorain	new policy planning	8	x	x		
2004	10	14		Snyder	Jo Jones & Marilyn Spiegel	Port Clinton	History of Extension Interview	2				
2004	10	14		Hageman	Paul Zarisky-IMET Corp.-Cleveland	Gibraltar Island	Zebra Mussel Experiment			2		
2004	10	14		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14				
2004	10	14		Williams	Michael Occhionero	Cleveland	Site visit for ext office	5				
2004	10	14		Williams	Mangus Equip	Willoughby	Business Dev.	2				
2004	10	14		kelch	central basin charterboat association	lorain	lake erie update-fisheries	32				
2004	10	15		Snyder	District Extension Staff	Findlay	Staff updates	12				
2004	10	15		Hageman	Lake Ridge Academy - N. Ridgeville	Gibraltar Island	Aquatic Science Workshop Program			13		
2004	10	15		Hageman	Janelle Duncan - Miami Univ. - Oxford	Peach Pt. Rsch. Lab	Assist with Research				3	
2004	10	15	17	Hageman	O.S.U. Plankton Class	Gibraltar Island	Aquatic Science Workshop Progra	9				
2004	10	15		Williams	Northeast health	Cleveland	Business Dev.	3				
2004	10	16	17	Hageman	O.S.U. Mount Scholars	Gibraltar Island	Stone Lab Program Overview	32				
2004	10	18		Hageman	Cub Scout Pack #320 - Clyde	Gibraltar Island	Aquatic Science Workshop Program			9		
2004	10	18		Williams	Pre-employment	Cleveland	Bugeting & finance	15				
2004	10	18		Williams	Terrell Mfg	Strongsville	Business Dev.	3				
2004	10	18		Williams	Fundamental of Business planning		Ext Education	15				
2004	10	19	20	Hageman	Jackson M.S. - Grove City	Gibraltar Island	Aquatic Science Workshop Program			68		
2004	10	19		Williams	OEDC	Columbus	Marketing	16				
2004	10	20		Lichtkoppler	Great Lakes Sea Grant Agents	Painesville	Habitattitude TM Conf Call	7				
2004	10	20		Lucente	Dave Kelch, Ohio Sea Grant	Toledo	Laker Erie Shipwreck Trail Mtg.	2		x		
2004	10	20		Williams	Fundamental of Business planning		Ext Education	15				
2004	10	20		Williams	T. Allmond	Cleveland	Business Dev.	2				
2004	10	20		Williams	American Mine	Cleveland	Business Dev.	3				
2004	10	20		kelch	meeting with joe lucente	toledo	Laker Erie Shipwreck Trail Mtg.	2	x	x		
2004	10	21		Snyder	Ohio Sea Grant Staff	Bay Village	Sea Grant Planning meeting	9				
2004	10	21		Hageman	Ohio Sea Grant Extension	Bay Village	Meeting				8	
2004	10	21		Lichtkoppler	OH Sea Grant Staff	Bay Vilage	Sea Grant Program Management	8				
2004	10	21		Lucente	OSU Sea Grant Agents	Bay Village	Staff mtg.	10				
2004	10	21		Williams	Sea Grant	Avon	Sea Grant educators mtg	7				
2004	10	21		Williams	GMO Forum	Cleveland	Food Forum on GMO	37				
2004	10	21		kelch	michigan clean marina workshop	mt. clemens michigan	clean marina workshop training					

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2004	10	21		Riesen	Ohio Sea Grant Staff	LENSC/Bay Village	Staff Meeting	7				
2004	10	22		Lucente	OH Balanced Growth Steering Comm.	Toledo	Lake Erie Balanced Grwth. Init.	22				
2004	10	22		Williams	Joe Micelli	Cleveland	Business Dev.	3				
2004	10	22		Williams	Fishermans all natural	Cleveland	Business Dev.	2				
2004	10	22		Williams	partners & mutual	Cleveland	Ext Education	7				
2004	10	25		Hageman	Pheasants Forever, Chapter 291	Camp Perry	Banquet Location				6	
2004	10	25	26	Hageman	Hilliard Tharp M.S. I - Hilliard	Gibraltar Island	Aquatic Science Workshop Program			36		
2004	10	25		Williams	A new image	Warrensville	Business Dev.	3				
2004	10	25		Williams	Mr. Levine	Cleveland	Business Dev.	3				
2004	10	25		Williams	Pipeline mtg	Cleveland	Shorebank	9				
2004	10	25		Williams	Pre-employment	Cleveland	Budgeting & finance	15				
2004	10	25		Williams	Fundamental of Business planning		Ext Education	15				
2004	10	25		Williams	Growth Capital	Cleveland	Staff mtg	5				
2004	10	25		Williams	Fabtech	IX Center	Business Dev.					XX
2004	10	26	27	Hageman	Hilliard Tharp M.S. II - Hilliard	Gibraltar Island	Aquatic Science Workshop Program			31		
2004	10	26		Williams	Arnold Lockett	Cleveland	business roundtable	2				
2004	10	26		Williams	Fabtech	IX Center	Business Dev.					
2004	10	26		kelch	submerged lands adv council mtg	bowling green st univ	shipwreck protection committee	11				
2004	10	27		Lichtkoppler	ARP Project Committee	Ashtabula	Ashtabula River Clean up Dredgin	19				
2004	10	27		Lichtkoppler	ARP Cordinating Committee	Ashtabula	Ashtabula River Clean up Dredgin	15				
2004	10	27		Williams	Fundamental of Business planning		Ext Education	15				
2004	10	27		kelch	ext directors internal advisory comm	columbus	advisory & update ext director	18				
2004	10	28		Williams	Ohio Development	Columbus	Marketing			5		
2004	10	28		kelch	area marina visits for clean marina	lorain, vermilion	clean marina workshop info	6				
2004	10	29	30	Hageman	Clev. Regional Council of Sci. Teachers	Cleveland	Conference	90				
2004	10	29		Lichtkoppler	Great Lakes Sea Grant Agents	Painesville	Kiosk Grant Proposal WI	7				
2004	10	29		Williams	Eggs & issues	Cleveland	election coverage	64				
2004	10	30		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh House Clean up	10				
2004	10	30		Riesen	Cleveland Regional Council of Science	John Carroll University	exhibit set up			95		
2004	11	1		Williams	Shorebank	Cleveland	weekly activities	5				
2004	11	1		Williams	Green Bulkhead	Cleveland	sea Grant Act.	5				
2004	11	1		Williams	board mtg	Cleveland	Sea Grant board mtg	5				
2004	11	1		Williams	Pre-employment	Cleveland	Budgeting & finance	12				
2004	11	1		Williams	Fundamental of Business planning		Ext Education	15				
2004	11	2		Williams	Growth Capital	Cleveland	Staff mtg	5				
2004	11	2		Williams	Tensile testing	Aurora	Business Dev.	3				
2004	11	3		Williams	GE Capital	Cleveland	Business Dev.	3				
2004	11	3		Williams	Fundamental of Business planning		Ext Education	14				
2004	11	3		Williams	Fsasco co.	Warrensville	Business Dev.	2				
2004	11	4		Hageman	Dr. Stuckey / Bruce Leach	Gibraltar Island	Stone Lab Library				2	
2004	11	4		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	26				
2004	11	4		Williams	McTech	Cleveland	Business Dev.	5				
2004	11	4		Williams	Garfield alloys	Garfield	Business Dev.	3				
2004	11	4		kelch	midview high school 9th grade biology	grafton	lake erie, dead zone	63				
2004	11	5		Williams	Perk Industries	Bedford	Business Dev.	2				
2004	11	5		Riesen	LENSC staff meeting	LENSC/Bay Village	Strategic planning	15				
2004	11	8		Snyder	Columbus Dispatch Interview	Port Clinton	Lake Erie Industries					XX
2004	11	8		Snyder	LECBA Board of Directors	Port Clinton	Charter Industry Programs	14				
2004	11	8		Hageman	Pheasants Forever, Chapter 291	Vickery	Monthly Board Meeting	6				
2004	11	8		Lichtkoppler	Great Lakes Sea Grant Agents	Painesville	Kiosk Grant Proposal WI	6				
2004	11	8		Lucente	Greg Davis, OSU Ext.	Findlay	Leadership Development	2		x		
2004	11	8		Williams	aluminum Precision	Cleveland	Business Dev.	3				
2004	11	8		Williams	Shorebank	Cleveland	weekly activities	7				
2004	11	8		Williams	Ann Zadcar NCB	North Olmsted	Business Dev.	2				

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2004	11	8		Williams	Pre-employment	Cleveland	Budgeting & finance	10				
2004	11	8		Williams	Fundamental of Business planning		Ext Education	15				
2004	11	9		Snyder	Lake Erie Marina Managers	Port Clinton	Clean Marinas Workshop			20		
2004	11	9		Williams	OEDC	Columbus	Marketing	16				
2004	11	9		Williams	Lakefront Planning	Cleveland	Planning			73		
2004	11	9		Williams	Terrell Mfg	Strongsville	Business Dev.	3				
2004	11	9		kelch	1st clean marina workshop	port clinton	teach clean marina information	22				
2004	11	10		Snyder	Port Clinton Residents	Port Clinton	Municipal Aquarium Development	3				
2004	11	10		Lichtkoppler	OH Coastal Resources Mgt Program	Cleveland	Citizen Coastal Concerns	6				
2004	11	10		Lucente	Christine Bailey, Toledo COC	Toledo	Leadership Development	2		x		
2004	11	10		Williams	Educator Mtg	Cleveland	Site visit for ext office	7				
2004	11	10		Williams	Garfield alloys	Garfield	Business Dev.	2				
2004	11	11		Williams	Stork Material	Valley View	Business Dev.	3				
2004	11	11		Williams	Jim Gronoski	Cleveland	Site visit for ext office	3				
2004	11	11		Williams	Spencer Forge	Spencer, Oh	Business Dev.	3				
2004	11	11		Riesen	West Cleveland Sportsmen's Club	Grafton	Steelhead Survey Results	35				
2004	11	12		Williams	Residence Empowerment Organization	Toledo, Oh	Ext Education		34			
2004	11	15		Lichtkoppler	Lake County Officials & staff	Painesville	Program Promotion	35				
2004	11	15		Williams	Shorebank	Cleveland	weekly activities	8				
2004	11	15		Williams	ozanne construction	Cleveland	Business Dev.	3				
2004	11	15		Williams	Pre-employment	Cleveland	Budgeting & finance	10				
2004	11	15		Williams	Fundamental of Business planning		Ext Education	12				
2004	11	16		Hageman	Stone Lab Departments	Columbus	End of Season Meeting				20	
2004	11	16		Lucente	Jerry Jakes, Karen Baker, LEW	Toledo	Lake Erie West Mtg.	3		x		
2004	11	16		Williams	OEDC		Business Dev.	8				
2004	11	16		Williams	Industrial Roundtable	Cleveland	Business Dev.	13				
2004	11	16		kelch	2nd clean marina workshop	bay village	teach clean marina information	11				
2004	11	16		Riesen	Marina Owners	LENSC/Bay Village	Clean Marinas Program			18		
2004	11	17		Snyder	OSUE W. Dist. Prom. & Tenure Comm.	Findlay	Vita Review and Voting	8	x			
2004	11	17		Hageman	Ohio Chapter, American Fisheries Soc.	Reynoldsburg	Executive Board Meeting	10				
2004	11	17		Lucente	OH Balanced Growth Steering Comm.	Toledo	Conference Call	15				
2004	11	17		Williams	Mtg S.Strmicha	Cleveland	Shorebank	4				
2004	11	17		Williams	Fundamental of Business planning	Cleveland	Business Dev.	12				
2004	11	18		Lichtkoppler	NE SG Advisory Committee	Painesville	Sea Grant / Lake Erie Priorities	10				
2004	11	18		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14				
2004	11	18		Williams	Bendix	Elyria	Business Dev.	4				
2004	11	18		Williams	Growth Capital	Cleveland	Br. Mtg	200				
2004	11	18		Williams	Cuyahoga RAP	Cleveland	Sea Grant	23				
2004	11	18		kelch/riesen	steelhead angling seminar, LENSC	bay village	steelhead biology, angling info	89	x	x		
2004	11	18		Riesen	steelhead anglers	LENSC/Bay Village	steelhead angling			70		
2004	11	19		Snyder	Wooster-Lima Joint Center Meeting	Wooster	Regional Center Development	26				
2004	11	19		Lichtkoppler	Lake Erie Coastal Ohio, Inc. Exc Comm	Amherst	LECO, Inc Management	6				
2004	11	19		Lucente	NW OSU Extension Staff	Findlay	Staff Mtg.	12				
2004	11	19		Williams	R. Fairbanks	Cleveland	Business Dev.	2				
2004	11	19		Riesen	Computer Technician/Carter	LENSC/Bay Village	resolve computer problem				2	
2004	11	22		Snyder	Great Lakes Sea Grant Program Leader	Port Clinton	Planning Conference Call	8				
2004	11	22		Williams	Garfield alloys	Cleveland	Business Dev.	6				
2004	11	22		Williams	OSU site visits	Cleveland	Office location	4				
2004	11	23		Lucente	Jim Widenheft, OSU Ext.	Toledo	Business Retention & Exp.	2				
2004	11	23		Williams	OSU site visits	Parma	Office location	4				
2004	11	23		Williams	Botanical Garden	Cleveland	sea grant	5				
2004	11	23		Riesen	Envirothon Presenters/Sandy Yohe	Fremont	Envirothon review	5				
2004	11	24		Snyder	Aquaculturists	Castalia	Aquaculture Breakfast	3				
2004	11	24		Williams	Garth Woodson	Cleveland	Business Dev.	4				

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2004	11	24		Williams	D. Swander	Cleveland	Business Dev	2				
2004	11	24		kelch	lcvb board of directors meeting	lorain	tourism, new program ideas	19				
2004	11	29		Williams	Jim Heron	Cleveland	Business Dev	2				
2004	11	29		Williams	Shorebank	Cleveland	Business Dev	5				
2004	11	29		Williams	Pipeline mtg	Cleveland	Business Dev	5				
2004	11	29		Williams	Andrew Shrod	Cleveland	Business Dev	2				
2004	11	30		Williams	ED Network	Cleveland	land use forum	9				
2004	11	30		Williams	American Mine	Cleveland	Business Dev	4				
2004	12	1		Williams	Ed Novinc	Cleveland	Junior Achievement	2				
2004	12	1		Williams	Interstate McBee	Cleveland	Business Dev	3				
2004	12	1		Williams	Fundamental of Business planning	Cleveland	Business Dev	12				
2004	12	2		Snyder	OSU Lima Campus Faculty	Lima	Extension Program Familiarization	46				
2004	12	2		Lichtkoppler	OSU Faculty	Painesville	P&T Conf Call	3				
2004	12	2		Williams	Jim Heron	Cleveland	Business Dev	2				
2004	12	2		Williams	Charles burkett	Cleveland	Business Dev	3				
2004	12	2		Williams	site Visits	Cleveland	OSU Office search	3				
2004	12	3		Snyder	Kelly Reisen	Port Clinton	Fisheries Extension Development	1				
2004	12	3		Williams	RL Trucking	Cleveland	business Dev	4				
2004	12	3		Riesen	Meeting with Fred Snyder	Port Clinton	Charter Captain Conf. planning	2				
2004	12	6		Snyder	Great Lakes Environ. Research Lab	Ann Arbor, MI	Proposal Review	22				
2004	12	6	8	Lucente	GL Sea Grant Coastal Comm. Dev.	New Buffalo, MI	Coastal Comm. Smart Growth	12				
2004	12	6		Williams	Shorebank	Cleveland	business Dev	5				
2004	12	6		Williams	Pipeline mtg	Cleveland	business Dev	5				
2004	12	6		Williams	Tanya Allmond	Cleveland	business Dev	2				
2004	12	6		Williams	Fundamental of Business planning	Cleveland	business Dev	12				
2004	12	7		Snyder	NW Sea Grant Ext. Advisory Comm.	Port Clinton	Sea Grant Strategic Planning	10		x		
2004	12	7	9	Lichtkoppler	OSU Faculty	Columbus	P&T Committee Meetings	10				
2004	12	7		Williams	OEDC	Columbus	business Dev	17				
2004	12	7		Williams	Tomco	Cleveland	business Dev	3				
2004	12	7		Riesen	Fred Snyder/Advisory Committee Mtg	Sandusky	Strategic planning			10		
2004	12	8		Williams	Rose Metal	Cleveland	business Dev	3				
2004	12	8		Williams	OSU Educators	Cleveland	Educators Mtg	4				
2004	12	8		kelch	sea grant conference call	elyria	Boat/Sport Show planning				x	
2004	12	8		kelch	sea grant conference call	elyria	clean marina, clean boater prog				x	
2004	12	8		Riesen	Conference Call	LENSC/Bay Village	Boat/Sport Show planning	8				
2004	12	9		Lichtkoppler	Citizens, OEPA officials	Ashtabula	USACE 401 permit	53				
2004	12	9		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	26				
2004	12	9		Williams	Ext annual conf	Worthington	Annual conference					
2004	12	9		Williams	L. Westfield	Cleveland	Business Dev.	2				
2004	12	10		Snyder	Sea Grant Main Office	Columbus	Stone Laboratory	6				
2004	12	10		Williams	Team Neo	Akron	Business Dev					
2004	12	10		Williams	Junior Achievement	Cleveland	Success skills	37				
2004	12	10		Riesen	Local Aquarium Stores	Cleveland	Aquariums for Boat/Sport shows	2				
2004	12	11	12	Snyder	American Fisheries Society	Indianapolis, IN	AIS Regulation & Enforcement	35				
2004	12	13		Williams	N najeeullah	Cleveland	Business Dev	2				
2004	12	13		Williams	R. Barth	Cleveland	business Dev	2				
2004	12	13		Williams	Ext holiday parth	Cleveland	business Dev					
2004	12	14		Williams	McTech	Cleveland	business Dev	5				
2004	12	14		kelch	lorain cty new elected officials/comiss	elyria	sea grant update, value to cty	27				
2004	12	14		Riesen	Fender's Fish Hatchery	Coshocton	Pick up fish for boat/sport shows	3				
2004	12	15		Snyder	Ohio Sea Grant Staff	Bay Village	Sea Grant Program Management	9				
2004	12	15		Hageman	Ohio Sea Grant Staff	Bay Village	Sea Grant Program Management				9	
2004	12	15		Hageman	Ohio Sea Grant Staff	Bay Village	Directors Advisory Meeting				18	
2004	12	15		Lichtkoppler	Ohio Sea Grant Staff	Bay Vilage	Sea Grant Program Management	9				

Mass Media includes hard-to-enumerate large audiences such as print and broadcast media and expositions

Table E-2: Ohio Sea Grant Extension Combined Activities 2004

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2004	12	15		Lichtkoppler	Citizens, Lake County Coastal Comm	Painesville	Coastal Planning	15				
2004	12	15		Lucente	Dave Kelch, OSU Sea Grant	Elyria	Lake Erie Shipwreck Trails	2		x		
2004	12	15		Lucente	Ohio Sea Grant Staff	Bay Village	Sea Grant Program Management	10				
2004	12	15		Williams	American Mine	Cleveland	business Dev	5				
2004	12	15		Williams	K. Slivka	Cleveland	business Dev	2				
2004	12	15		Williams	Ohio Sea Grant Staff	Rocky River	Sea Grant Program Management	5				
2004	12	15		kelch	Ohio Sea Grant Staff	bay village	sea grant planning				x	
2004	12	15		Riesen	Ohio Sea Grant Staff	LENSC/Bay Village	Staff Meeting	8				
2004	12	15		Riesen	Sea Grant Directory Advisory Council	LENSC/Bay Village	Strategic planning			15		
2004	12	16		Lichtkoppler	ARP Project Committee	Ashtabula	Ashtabula River Clean up Dredgin	20				
2004	12	16		Lichtkoppler	ARP Cordinating Committee	Ashtabula	Ashtabula River Clean up Dredgin	14				
2004	12	16		Riesen	LENSC staff meeting	LENSC/Bay Village	education staff planning	4				
2004	12	17		Snyder	District Extension Staff	Findlay	Staff updates	18				
2004	12	17		Lichtkoppler	Lake Erie Coastal Ohio, Inc	Cleveland	LECO, Inc Management	6				
2004	12	17		Lichtkoppler	Lake Erie Coastal Ohio, Inc	Cleveland	Coastal Tourism	24				
2004	12	17		Lucente	District Extension Staff	Findlay	Staff updates	18				
2004	12	20		Snyder	Advisory Committee Members	Port Clinton	Program Update	3				
2004	12	20		Lucente	NW Sea Grant Advisory Council	Toledo	Strategic Planning/Sea Grant	14	x	x		
2004	12	20		Williams	Shorebank	Cleveland	business Dev	2				
2004	12	20		Williams	Pipeline mtg	Cleveland	business Dev	4				
2004	12	20		Williams	american Metal coating	Cleveland	business Dev	3				
2004	12	20		Williams	V. Finley	Cleveland	business Dev	2				
2004	12	21		Williams	STD Speciality Filters	Cleveland	Business Dev	3				
2004	12	21		Williams	Growth Capital	Cleveland	Staff mtg	5				
2004	12	21		Riesen	Aquarium Adventure	Brooklyn, Ohio	Aquariums for Boat/Sport shows	2				
2004	12	22		Lucente	OH Balanced Growth Steering Comm.	Toledo	Conference Call- LEBGI	16				
2004	12	22		Williams	L Green	Beachwood	Business dev	3				
2004	12	22		Williams	L. westfield	Mayfield	Business Dev	2				
2004	12	22		Riesen	Conference Call	LENSC/Bay Village	Boat/Sport Show planning	4				
2004	12	27		Williams	Shorebank	Cleveland	Business Dev	4				
2004	12	27		Williams	Pipeline mtg	Cleveland	Business Dev	5				
2004	12	27		Williams	Shawn Sukey	Cleveland	Business Dev	2				
2004	12	28		Williams	OEDC	Columbus	Marketing	6				

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YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP/No.	MASS MEDIA
2005	1	2	9	Lucente	International Education Professionals	Honolulu, HI	Leadership Development Ed.	28				
2005	1	3		Snyder	Sea Grant Staff	Port Clinton	FEE Project Conference Call	6	x			
2005	1	3		Snyder	Regional Extension Staff	Findlay	Center Establishment	13				
2005	1	3		Williams	Staff mtg-SB	Cleveland	schedule/activity		8			
2005	1	3		Williams	Carl Lee-	Garfiled	business Exp.	3				
2005	1	3		Williams	Pipeline mtg	Cleveland	New Activity					
2005	1	3		Riesen	Conference Call	LENESC/Bay Village	Fisheries Extension Enhancement	7				
2005	1	4		Snyder	Sea Grant Program Leaders	Port Clinton	Network Conference Call	9				
2005	1	5		Williams	Bill Grunkmeyer	Cleveland	new position	2				
2005	1	5		Williams	Chuck Holtzman	Elyria	Bendix Exp	5				
2005	1	5		Riesen	Bay Village Women's Board	LENESC/Bay Village	Lake Erie Q/A	20				
2005	1	6		Snyder	Regional Extension Staff	Port Clinton	Center Establishment Conf. Call	11				
2005	1	6		Williams	Fassco	Warrensville	business Exp.	2				
2005	1	6		Williams	Steve Strinchia	Cleveland	Progammng	1				
2005	1	7		Snyder	OSUE, Sea Grant Staff	Port Clinton	Sea Grant Operating Funds Call	5				
2005	1	7		Williams	Junior Achievement	Cleveland	Success skills	40				
2005	1	7		Riesen	Aquarium Adventure/Sales Rep	Brooklyn	Buy Aquarium for boat show displa	3				
2005	1	8		Riesen	Sea Grant Specialist/Dave Kelch	Elyria	Set up aquarium	2				
2005	1	9		Hageman	Pheasants Forever State Council	Upper Sandusky	State Council WI Mtg.	140				
2005	1	10		Williams	Staff mtg-SB	Cleveland	schedule/activity		8			
2005	1	10		Williams	Andrew Wright	Cleveland	business Exp.	3				
2005	1	10		Williams	Skully Black	Cleveland	business Exp.	2				
2005	1	10		Williams	Pipeline mtg	Cleveland	New Activity		8			
2005	1	10		Williams	Fundamental Business Planning	Cleveland	Business Excel	12				
2005	1	10		Riesen	Advisory Committee Meeting/Dave Kelch	Elyria	Advisory committee meeting	15				
2005	1	10		kelch	osg extension advisory committee	elyria	osg updates, planning	22	x	x		
2005	1	11		Snyder	Sea Grant Staff	Port Clinton	FEE Project Conference Call	6	x			
2005	1	11		Williams	Kevin Schmozer	Cleveland	City of Cleveland	2				
2005	1	11		Williams	J. Soron	Cleveland	Business Exp.	2				
2005	1	11		Riesen	Conference Call	LENESC/Bay Village	Fisheries Extension Enhancement	7				
2005	1	11		kelch	osg conference call	columbus	osg planning	6				
2005	1	12		Lucente	GL Sea Grant Network	Toledo	Wind Energy Conference Call	8				
2005	1	12		Lucente	Lake Erie Balanced Growth Stng. Cmt.	Toledo	Balanced Growth Conf. Call	14				
2005	1	12		Williams	Joe Micelli	Cleveland	business Exp.	4				
2005	1	12		Williams	Tomco metal	Cleveland	business Exp.	5				
2005	1	12		Williams	Fundamental Business Planning	Cleveland	Business Excel	12				
2005	1	13		Lucente	Public Officials, Agencies, Citizens	Toledo	Planning For Development	33	x	x		XX
2005	1	13		Williams	Growth Capital-staff	Cleveland	Board mtg					
2005	1	13		Williams	American Metal coating site visit	Cleveland	Business dev.	3				
2005	1	13		Williams	Scott Gordo	Cleveland	Business dev.	2				
2005	1	13		Williams	OEDC	Columbus	NMW	6				
2005	1	13		Williams	don Perry	Cleveland	Business dev.	1				
2005	1	13		Riesen	Dave Kelch/Frank Lichtkoppler/Jill Jente	Cleveland IX Center	Set up display for boat show	5				
2005	1	14		Snyder	Aquaculturists	Castalia, Bellevue	Display Fish Specimens	4				
2005	1	14		Williams	Ken Hersh	Cleveland	Business dev.	3				
2005	1	14		Williams	Butch Hogan Nite at Bar	East cleveland	Business dev.	7				
2005	1	14	23	Riesen	Mid-American Boat Show	Cleveland	Sea Grant Information Booth					XX
2005	1	14	23	kelch	Mid-American Boat Show	Cleveland	Sea Grant Information Booth					XX
2005	1	16	17	Snyder	Mid-American Boat Show	Cleveland	Sea Grant Information Booth					XX
2005	1	17		Hageman	E-O-S Chapter, Pheasants Forever	Vickery	Monthly Board Mtg.	9				
2005	1	18		Williams	Ext site visit	Cleveland	business.dev	1				
2005	1	18		Williams	Growth Capital-staff	Cleveland	Business dev.	1				
2005	1	18		Williams	Mini Taylor	Cleveland	Business dev.	1				
2005	1	18		Williams	Robin Brown	Cleveland	Business dev.	1				

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2005	1	18		kelch	cleveland mid american boat show	cleveland	seminar, fish consumption safety	36		x		
2005	1	19		Lucente	Public Officials, Agencies, Citizens	Toledo	Local Govt. Leadership Academy	15	x	x		
2005	1	19		Williams	Lito Trucking	Cleveland	Business dev.	2				
2005	1	19		Williams	Fundamental Business Planning	Cleveland	business Excel	12				
2005	1	19		kelch	clean marinas program participants	cleveland	clean marina workshop	15	x	x		
2005	1	19		kelch	cleveland mid american boat show	cleveland	seminar, fish consumption safety	51		x		
2005	1	19	20	Hageman	Cleveland Boat Show	Cleveland	Ohio Sea Grant Display Booth					XX
2005	1	20		Lucente	Cheryle Jones Syracuse, OSU Ext.	Toledo	Leadership Dev. Conf. Call	2	x	x		
2005	1	20		Williams	Interstate mcBee	Cleveland	business exp.	3				
2005	1	20		Williams	Bendix	elyria	business Exp.	1				
2005	1	20		Williams	Alex Lee	Cleveland	business dev.	3				
2005	1	20		kelch	cleveland mid american boat show	cleveland	seminar, fish consumption safety	22		x		
2005	1	21		Snyder	Regional Extension Staff	Findlay	Regional Center Conference	13				
2005	1	21		Lucente	Public Officials, Agencies, Citizens	Cleveland	Lake Erie Bal. Growth Int. Wrkshp	85		x		XX
2005	1	21		Williams	Junior Achievement	Cleveland	Success skills	40				
2005	1	21		kelch	cleveland mid american boat show	cleveland	seminar, fish consumption safety	27		x		
2005	1	23		Snyder	Mid-American Boat Show	Cleveland	Sea Grant Information Booth					XX
2005	1	24		Williams	SB-staff mtg	Cleveland	schedule/activity		8			
2005	1	24		Williams	Pipeline mtg	Cleveland	New Activity		8			
2005	1	25		Snyder	IAB Club Staff	Sandusky	Charter Conference Arrangements	4				
2005	1	25		Williams	Team NEO/McBee	Cleveland	business Dev.	5				
2005	1	25		Williams	Art Schuster	Cleveland	Business dev.	2				
2005	1	25	26	Riesen	Extension employees	Columbus	Extension employee orientation				21	
2005	1	26	29	Lucente	Public Officials, Agencies, Citizens	Miami Beach, FL	New Partners For Smart Growth C	1,000				
2005	1	26		Lucente	Public Officials, Agencies, Citizens	Toledo	Local Govt. Leadership Academy	15	x	x		
2005	1	26		Williams	Forge Products	Cleveland	business dev.	3				
2005	1	26		Williams	EastWoodworking	Cleveland	business dev.	3				
2005	1	26		Williams	Pipeline mtg	Cleveland	business dev.	2				
2005	1	27		Snyder	WTVN Radio	Columbus	Lake Levels Interview					XX
2005	1	27		Williams	Cuyahoga RA	Pensula	Sea Grant					
2005	1	27	30	Riesen	General public/boat owners/fishermen	Tallmadge	Northeast Ohio Sport Show					XX
2005	1	27		kelch	akron sport and outdoors show	akron	osg display set-up					XX
2005	1	28		Williams	Greater Akron cha	Akron	SAE	10				
2005	1	28		Williams	K. Ross/Team NEO	Cleveland	Marketing	1				
2005	1	31		Snyder	Great Lakes Sea Grant Netwok	Columbus	AIS-HACCP Conference Call	9				
2005	2	1		Williams	Growth Capital-staff							
2005	2	1		Williams	Vocational guidance	Cleveland	Job training	2				
2005	2	1		Williams	REI	Cleveland	Sustaining					
2005	2	1		kelch	clean marinas program conf call	elyria	updates, planning	12	x	x		
2005	2	1		Hageman	Radio Interview "Buckeye Sportsman"	Columbus	Ice Fishing & Safety					XX
2005	2	2		Lucente	Public Officials, Agencies, Citizens	Toledo	Local Govt. Leadership Academy	15	x	x		
2005	2	2		Williams	Site selection committee	Cleveland	Extension					
2005	2	2		Williams	Robin Brown	Cleveland	Business dev.	2				
2005	2	2		Williams	Ward jet Richard Ward	Kent, Oh	Business Dev.	4				
2005	2	2		Williams	Fundemetal Business Planning	Cleveland	Business Training	12				
2005	2	3		Snyder	Regional Extension Staff	Lima	Center Establishment	23				
2005	2	3		Williams	Kevin Scmozer	Cleveland	Interstate McBee					
2005	2	3		Williams	Cleveland Screw Products Bill Petti	Cleveland	Business dev.					
2005	2	3		Williams	League of Women Voters	Cleveland	Forum					
2005	2	4		Snyder	Ohio Fish & Wildlife Conference	Columbus	Professional Papers				200	
2005	2	4		Williams	Junior Achievement	Cleveland	Success skills	40				
2005	2	4		Williams	Greater Akron cha	Akron	Ward Jet	4				
2005	2	4		Riesen	Gander Mountain Staff/Various local ba	Elyria	Make contacts/set up seminars	10				
2005	2	5		Riesen	South Shore Cruising Club	Strongsville	Aquatic Invasive Species presenta	80				

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2005	2	7		Snyder	Regional Extension Staff	Findlay	Regional Director Interviews	22				
2005	2	7		Lucente	OSU Extension Personnel	Findlay	West Region Director Interviews	26				
2005	2	7		Williams	SB-staff mtg	Cleveland	schedule/activity		8			
2005	2	7		Williams	Pipeline mtg	Cleveland	New Activity		8			
2005	2	7		Riesen	Gander Mountain Staff/Various local ba	Painesville	Make contacts/set up seminars	8				
2005	2	8		Snyder	Port Clinton Mayor	Port Clinton	Charter Conference Arrangements	3				
2005	2	8		Snyder	Happy Days Boating	Port Clinton	Charter Conference Arrangements	4				
2005	2	8		Williams	Ray Kristosik	Cleveland	Eastwoodworking	2				
2005	2	8		Williams	Socio-economic work group	Pensula	cuyahoga Rap	5				
2005	2	8		Riesen	Dave Kelch/Office Meeting	Elyria	Pick up education materials	2				
2005	2	9		Snyder	Sea Grant Staff	Columbus	Staff Meeting	9				
2005	2	9		Lucente	OSU Sea Grant Personnel	Toledo	Sea Grant Agent Conference Call	10				
2005	2	9		Lucente	Public Officials, Agencies, Citizens	Toledo	Local Govt. Leadership Academy	15	x	x		
2005	2	9		Williams	OSU Educators	Cleveland	OSU Extension	6				
2005	2	9		Williams	EastWoodworking	Cleveland	business Dev.	3				
2005	2	9		Riesen	Sea Grant Staff Conference Call	LENSC/Bay Village	General Staff Meeting	9				
2005	2	9		kelch	Sea Grant Staff Conference Call	elyria	General Staff Meeting	9				
2005	2	9		Hageman	Sea Grant Extension	Columbus	General Staff Meeting	9				
2005	2	10		Lucente	NW Econ. Development Officials	Toledo	NORED Mtg.	34				
2005	2	10		Williams	Reeder roofing	Cleveland	Business dev.	3				
2005	2	10		Williams	Custom Rubber-Chris Angiocchi	Cleveland	Business dev.	3				
2005	2	10		Williams	Deborah Berry city of cleveland- Lakefr	cleveland	Lakefront Planning	3				
2005	2	10		Williams	Jump Start Network Event	Cleveland	Networking					
2005	2	10		Riesen	Women in the Outdoors board	Elyria	Women in the outdoors field day	9				
2005	2	10		Riesen	LENSC staff meeting	LENSC/Bay Village	Meet with Darci Sanders/education	2				
2005	2	10		kelch	west cleveland walleye association	cleveland	steelhead research update	40				
2005	2	10		Hageman	Sci Educators Council of Ohio	Columbus	Annual Conference	950				
2005	2	11		Snyder	Regional Extension Staff	Bowling Green	Center Establishment	16				
2005	2	11		Lucente	Regional Extension Staff	Bowling Green	Center Establishment	16				
2005	2	11		Williams	Orriental Noodle	Hudson	Business dev.	2				
2005	2	11		Williams	Junior Achievement	Cleveland	Success skills	40				
2005	2	11		Riesen	ohio 4-h sea camp planning meeting	Columbus	2005 sea camp planning	15		x		
2005	2	11		kelch	ohio 4-h sea camp planning meeting	columbus	2005 sea camp planning	15		x		
2005	2	14	18	Lucente	Community Development Ext. Prof.	Las Veags, NV	Leadership Development Training	38				
2005	2	14		Williams	SB-staff mtg	Cleveland	schedule/activity		8			
2005	2	14		Williams	Greater Akron cha	Akron	Trade show Mkt	12				
2005	2	14		kelch	clean marinas program conf call	elyria	updates, planning	10	x	x		
2005	2	15		Williams	OEDC	Columbus	Mkt					
2005	2	16		Williams	D. Reddus	Cleveland	Business Dev.	2				
2005	2	16		Williams	Watson funeral	Cleveland	Business dev.	3				
2005	2	16		Lichtkoppler	OCRMP Committee	Huron	Lake Erie Issues	8				
2005	2	17		Snyder	Sea Grant Staff	Columbus	Stone Lab Display	4				
2005	2	17		Snyder	Ohio Lake Erie Commission	Columbus	Balance Growth Advisory Team	38				
2005	2	17		Williams	McTech	Cleveland	Business dev.	3				
2005	2	17		Williams	Energizer	Westlake	Business dev.	5				
2005	2	17		Williams	ACCUS John Mangos	Cleveland	Business Dev.	4				
2005	2	17		Riesen	ODNR, Division of Wildlife	Akron	Meet with Jamey Graham about e	6				
2005	2	17		Riesen	steelhead anglers	Ashland	Fly fishing presentation	150				
2005	2	17		kelch	fin-feather-fur outfitters	ashland	steelhead seminar	170	x	x		
2005	2	17		Lichtkoppler	LC Ext Adv Comm	Mentor	Co Extension & Lake Erie	16				
2005	2	18		Snyder	Ohio Aquaculturists	Castalia, Bellevue	New Technology	8				
2005	2	18		Williams	Junior Achievement	Cleveland	Success skills	42				
2005	2	18		Williams	Shorebanc	Cleveland	Interstate McBee	2				
2005	2	18		Riesen	Ohio Aquaculturists	Castalia, Bellevue	New Technology	8				

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2005	2	18	19	Riesen	Women steelhead anglers	LENSC/Bay Village	Women's steelhead clinic/on river	24				
2005	2	18		kelch	Ohio Aquaculturists	Castalia, Bellevue	New Technology	8				
2005	2	18		kelch	womens steelhead angling seminar	bay village	teach steelhead bio session	25				
2005	2	19		Snyder	Sandusky Sailing Club	Sandusky	Lake Erie Update	63				
2005	2	21		Williams	Greater Akron cha	Akron	Downing display	2				
2005	2	21		Williams	Pipeline mtg	Cleveland	New Activity		8			
2005	2	21		Williams	PET	Cleveland	Pre-employment	15				
2005	2	22		Snyder	Regional Balanced Growth Team	Port Clinton	Plan Development Conf. Call	6	x			
2005	2	22		Lucente	Regional Balanced Growth Team	Toledo	Plan Development Conf. Call	6				
2005	2	22		Riesen	Woods and Waters sports club	Eastlake	Banquet/Sea Grant display	300				
2005	2	22		Hageman	Residents of Put-In-Bay, Media	Put-In-Bay	Status of Island Drinking Water				150	
2005	2	23		Lucente	Public Officials, Agencies, Citizens	Toledo	Local Govt. Leadership Academy	15	x	x		
2005	2	23		Williams	Ward jet Richard Ward	Kent	business dev.	3				
2005	2	23		Williams	CASE	Cleveland	Business dev.	3				
2005	2	23		Riesen	LENSC staff meeting	LENSC/Bay Village	Meet with Darci Sanders/educatio	2				
2005	2	23		Hageman	OSU & Marion College Students	Marion	Student Job Fair	50				
2005	2	23		Hageman	Friends of Stone Lab & Guests	Columbus	Stone Lab Winter Lecture				90	
2005	2	23		Lichtkoppler	LC Coastal Planning Committee	Painesville	Ohio Sea Grant Information	12				
2005	2	24		Snyder	Ohio Division of Wildlife	Sandusky	FEE Project	7				
2005	2	24		Snyder	USGS - Lake Erie Biological Station	Sandusky	FEE Project	4				
2005	2	24		Lucente	OSU Extetnsion Personnel	Toledo	Lucas County Office Conference	12				
2005	2	24		Williams	CASE Luncheon	Cleveland	Business dev.	8				
2005	2	24		Riesen	Lake Erie stakeholders	Sandusky	Lake Erie tour/make contacts with	15				
2005	2	24		kelch	ohio clean boater program meeting	elyria	clean boater, clean marina	18		x		
2005	2	25		Williams	Enersave	Cleveland	Business Dev.	3				
2005	2	25		Williams	Junior Achievement	Cleveland	Success skills	42				
2005	2	26		Hageman	Radio Interview D'arcy Egan	Cleveland	Ice Fishing & Safety					XX
2005	2	27	28	Lucente	OSU Extension Personnel	Columbus	Comm. Dev. Asst. Dri. Interviews	58				
2005	2	28		Williams	McTech	Cleveland	business Dev.	4				
2005	2	28		Williams	PET	Cleveland	Pre-employment	15				
2005	2	28		Williams	Enersave	Cleveland	business dev.	2				
2005	2	28		Lichtkoppler	GL Program LeadersConf Call	Painesville	Great Lakes SG Extension	7				
2005	3	1		Snyder	Charter Boat Captains	Port Clinton	Event Counseling	2				
2005	3	1		Lucente	Dave Kelch, OSU Extension	Toledo	Shipwreck Trails Planning Call	2		x		
2005	3	1		Williams	Chris Warren	Cleveland	Deal flow	2				
2005	3	1		Williams	Interstate mcBee	Cleveland	Business dev.	5				
2005	3	1		Williams	Watson funeral	Cleveland	Business dev.	2				
2005	3	2		Lucente	Public Officials, Agencies, Citizens	Toledo	Local Govt. Leadership Academy	15	x	x		
2005	3	2		Williams	American Metal coating site visit	Cleveland	Business dev.	3				
2005	3	2		Williams	AFP	Cleveland	Bsusiness Dev	3				
2005	3	2		Williams	CAVS game	Cleveland	Business dev.	5				
2005	3	2		Riesen	Lake Erie Marine Trades	Westlake	Meet with Norm Schultz/Advisory	2				
2005	3	3		Snyder	Sea Grant Staff	Columbus	Strategic Planning Meeting	8				
2005	3	3		Lucente	Sea Grant Staff	Columbus	Strategic Planning Meeting	8				
2005	3	3		Williams	ACE trucking	Cleveland	Business dev.	3				
2005	3	3		Riesen	Sea Grant Staff	Columbus	Strategic Planning Meeting	8				
2005	3	3		kelch	Sea Grant Staff	Columbus	Strategic Planning Meeting	8	x	x		
2005	3	3		Hageman	Sea Grant Extension	Columbus	Staff Mtg.-P.A.T., Stategic Plan	8				
2005	3	3		Lichtkoppler	Ohio Sea Grant Staff Conf	Painesville	Stratregic Plan / PAT	6				
2005	3	4		Williams	Junior Achievement	Cleveland	Success skills	40				
2005	3	4		Williams	EastWoodworking	Cleveland	Business Dev.	3				
2005	3	4		Williams	North Coast Tool	Brooklyn	Business dev.	3				
2005	3	5		Snyder	Ohio Charter Captains Conference	Sandusky	Charter Business Management	201	x			
2005	3	5		Lucente	Ohio Charter Captains Conference	Sandusky	Charter Business Management	201				

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2005	3	5		Riesen	Ohio Charter Captains Conference	Sandusky	Charter Business Management	201				
2005	3	5		kelch	NYSG shipwreck conference	oswego, ny	ohio shipwreck trailways/pres	170				
2005	3	5		Hageman	Ohio Charter Captains Conference	Sandusky	Charter Business Management	201				
2005	3	6	11	Riesen	National Sea Grant Extension Academy	Washington DC	New Sea Grant Hires				40	
2005	3	7		Snyder	On Campus Magazine	Columbus	Sport Fishing Course Interview					XX
2005	3	7	8	Lucente	OSU Extension Personnel	Columbus	Teach Business Retention and Ex	10				
2005	3	7		Williams	National MFG Week	Chicago	Business Dev.	3				
2005	3	8		Williams	National MFG Week	Chicago	Business dev.	3				
2005	3	8		Lichtkoppler	Grand River Partners, Inc.	Painesville	Grand River Protection	16				
2005	3	9		Lucente	Public Officials, Agencies, Citizens	Toledo	Local Govt. Leadership Academy	15	x	x		
2005	3	9		Williams	F Squad	Middlefield	Business Dev.	3				
2005	3	10		Snyder	Sandusky Charter Boat Association	Sandusky	Lake Erie Update	58				
2005	3	10		Lucente	NW Econ. Dev. Professionals	Toledo	NORED Mtg.	45				
2005	3	10		Lichtkoppler	Cleveland Sport Show	Cleveland	Show Set Up					
2005	3	11		Snyder	Regional Balanced Growth Team	Port Clinton	Plan Development Conf. Call	6				
2005	3	11		Lucente	OSU Extension Center At Lima	Toledo	Smart Growth Planning Conf. Call	5				
2005	3	11		Williams	Cleveland Screw Products Bill Petti	Cleveland	Business dev.	2				
2005	3	11		Williams	Team NEO/McBee	Cleveland	Education					
2005	3	12		Snyder	Ohio Aquaculturists	Castalia, Bellevue	Display Fish Specimens	4				
2005	3	12		Snyder	Sports, Travel & Outdoors Show	Cleveland	Sea Grant Information Booth					XX
2005	3	12	20	kelch	Sports, Travel & Outdoors Show	Cleveland	Sea Grant Information Booth					XX
2005	3	12		Lichtkoppler	Sports, Travel & Outdoors Show	Cleveland	Sea Grant Information Booth					XX
2005	3	13	14	Snyder	Michigan Dept. Environmental Quality	Lansing, MI	AIS HACCP Training	26				
2005	3	13		Lichtkoppler	Sports, Travel & Outdoors Show	Cleveland	Sea Grant Information Booth					XX
2005	3	14		Williams	Weld System	Warrensville+G854	business Dev.	2				
2005	3	14		Williams	councilman Jaskson	Cleveland	Business Dev.	2				
2005	3	14		Williams	Strong Tool	Cleveland	Business dev.	3				
2005	3	14	20	Riesen	Sports, Travel & Outdoors Show	Cleveland	Sea Grant Information Booth					XX
2005	3	14		Lichtkoppler	Sea Grant Assembly Ex Comm	Painesville	Sea Grant Extension	9				
2005	3	15		Lucente	Lake Erie Balanced Growth Strg. Cmt.	Toledo	Balanced Growth Conf. Call	17				
2005	3	15		Williams	Watson Funeral	Cleveland	Business Dev.	4				
2005	3	15		Williams	Lito Trucking	Cleveland	Business Dev.	3				
2005	3	15		Hageman	Stone Lab Departments	Columbus	Spring Planning Mtg.				22	
2005	3	16		Lucente	Ohio Lake Erie Commission	Toledo	Review Large Grant Cycle Project	1				
2005	3	16		Lucente	Public Officials, Agencies, Citizens	Toledo	Local Govt. Leadership Academy	15	x	x		
2005	3	16		Williams	Team Ohio	Columbus	Business Dev.	4				
2005	3	16		Williams	Aluminum coating	Cleveland	business Dev.	4				
2005	3	16		Williams	Integra Enclosure	Cleveland	Business Dev.	5				
2005	3	16		kelch	sea camp conference call	elyria	20005 sea camp planning	12				
2005	3	16	17	Hageman	Summer Employee Applicants	Columbus	Interviews for Employment	18				
2005	3	17		Snyder	Sports, Travel & Outdoors Show	Cleveland	Sea Grant Information Booth					XX
2005	3	17		Lucente	Dave Kelch, OSU Extensoin	Elyria	Shipwreck Trails Planning	2				
2005	3	17		Williams	CD Agent mtg	Columbus	Training					
2005	3	17		Williams	CASE Board Mtg	Cleveland	Business Dev.	5				
2005	3	18		Snyder	Ohio Division of Wildlife	Waldo	Walleye School				350	
2005	3	18		Lucente	OSU Extension Personnel	Findlay	Office Conference	14				
2005	3	18		Williams	Strong Tool	cleveland	Business Dev.	4				
2005	3	18		Williams	North Coast Tool	Cleveland	business Dev.	2				
2005	3	18		Riesen	Ohio Division of Wildlife	Waldo	Walleye School				350	
2005	3	18		kelch	Ohio Division of Wildlife	Waldo	Walleye School				350	
2005	3	18		Lichtkoppler	Sports, Travel & Outdoors Show	Cleveland	Sea Grant Information Booth					XX
2005	3	19	20	Snyder	Sports, Travel & Outdoors Show	Cleveland	Sea Grant Information Booth					XX
2005	3	19		Hageman	F.O.S.L., Bio-Sci Alumni	Columbus	Planning Mtg.-Buckeye Hop				5	
2005	3	19		Lichtkoppler	Sports, Travel & Outdoors Show	Cleveland	Sea Grant Information Booth					XX

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2005	3	20		Lichtkoppler	Sports, Travel & Outdoors Show	Cleveland	Sea Grant Information Booth					XX
2005	3	21		Williams	Decorative Veneer	Cleveland	Business Dev.	6				
2005	3	22		Williams	Team Ohio Marketing	Akron	Business dev.	12				
2005	3	22		Williams	Office Task Force	Cleveland	Business Dev.	16				
2005	3	22		kelch	clean marinas pgm interview conf call	elyria	interview potential coordinator					
2005	3	22		kelch	firelands land conservancy annual mtg	carlisle twp	lake erie dead zone	85				
2005	3	22		Hageman	Lake H.S. Advanced Biology Class	Milbury	Stone Laboratory Research	35				
2005	3	23		Williams	ACE trucking	Cleveland	Business Dev.	4				
2005	3	23		Williams	Strong Tool	Cleveland	Business Dev.	5				
2005	3	23		Williams	Rose Metal	Cleveland	Business Dev.	3				
2005	3	23		Williams	McTech	Cleveland	Business Dev.	5				
2005	3	23		kelch	lorain cty visitor bureau bd mtg	lorain	tourism planning	18				
2005	3	24		Snyder	Cabelas Magazine	Dundee, MI	Lake Erie Fishery Changes Inter.					XX
2005	3	24		Williams	Opprotunities for Regional	Wooster	Training					
2005	3	24		Williams	Cuyahoga Rap	Richfield	Sea Grant	15				
2005	3	24		kelch	osg conference call	elyria	osg planning	6				
2005	3	25		Riesen	Ohio Office of Coastal Management	Sandusky	Ohio Coastal Training Program					
2005	3	28		Snyder	Stone Lab Scholarship Committee	Columbus	Application Review	8				
2005	3	28		Williams	Engenzier	Westlake	Business Dev.	4				
2005	3	28		Williams	Integra Enclosure	Willoughby	Business Dev.	3				
2005	3	28		Williams	ACE trucking	Cleveland	Business Dev.	2				
2005	3	28		Williams	Lefco Pallet	Cleveland	Business Dev.	3				
2005	3	28		Williams	Columbia Auto sales	Chagrin Falls	Business Dev.	2				
2005	3	28		Hageman	Stone Lab Scholarship Committee	Columbus	Stone Lab Scholarship Mtg.				7	
2005	3	29		Lucente	Glenn Grisdale, Adam Hoff, P.E.	Toledo	Smart Growth Conference Plannin	3	x	x		
2005	3	29	31	Riesen	Great Lakes Fishery Commission	Nigara Falls, Ontario	Lower Lakes Committee Meetings				150	
2005	3	29	30	Hageman	Ichthyoplankton ID Students	Put-In-Bay	Ichthyoplankton I.D. WS-I	7				
2005	3	30		Snyder	State Vehicle Pickup	Columbus	Pickup	5				
2005	3	30		Lucente	Public Officials, Agencies, Citizens	Toledo	Local Govt. Leadership Academy	22	x	x		
2005	3	31		Williams	Councilwomen Scott	Cleveland	Watson Funeral	5				
2005	3	31		Williams	SAE Pre Mtg	Akron	business dev.	9				
2005	3	31	4/1	Hageman	Ichthyoplankton ID Students	Put-In-Bay	Ichthyoplankton I.D. WS-II	15				
2005	3	31		Lichtkoppler	4-H Youth	Painesville	Hindustan 3rd world culture	12				
2005	4	1		Hageman	Ichthyoplankton ID students	Put-in-Bay	Ichthyoplankton ID WS-II	15				
2005	4	2		Snyder	Ohio Academy of Science	Bowling Green	AIS Impacts on Sport Fishery	35				
2005	4	2		Kelch	Ohio Academy of Science	Bowling Green	oral presentation	35				
2005	4	4		Lucente	Greg Davis, OSU Extension	Toledo	Community Initiative Conf. Call	2		x		
2005	4	4	7	Comer	Michigan, Virginia & Ohio Sea Grant Pe	Monroe, MI	Clean Marina Site Review Training	15				
2005	4	4	7	Kelch	Michigan, Virginia & Ohio Sea Grant Pe	Monroe, MI	Clean Marina Site Review Training	15				
2005	4	5		Snyder	Nikia Castle & Mother	Port Clinton	Career Counseling	2				
2005	4	5		Snyder	Lima Center Extension Conf. Call	Port Clinton	Extension Impacts	5				
2005	4	5		Riesen	Ohio Central Basin Steelheaders Board	Cleveland	Various angling-related issues	10				
2005	4	6		Lichtkoppler	Sea Grant Assembly Ex Comm	Painesville	Sea Grant Extension Issues	7				
2005	4	6		Lichtkoppler	USACE Hearing	Fairport harbor	Fairport harbor Dredging	6				
2005	4	6		Riesen	Fred Snyder, District Specialist	Port Clinton	Office meeting	2				
2005	4	7		Snyder	Lima Center Extension Conf. Call	Port Clinton	Advisory Committee	6				
2005	4	7	8	Snyder	Indiana Lake Managers	South Bend, IN	AIS HACCP Training	32				
2005	4	7		Lucente	OSU Extension Lima Staff	Findlay	Staff Meeting	15				
2005	4	8		Riesen	Great Lakes Science Center Employees	Cleveland	Science programing	10				
2005	4	9		Hageman	Erie-Ottawa-Sandusky Co. Members PH	Oak Harbor	Annual Banquet			325		
2005	4	11		Snyder	Farm Pond Owners	Waseon	Fulton County Pond Mgt. Clinic	43				
2005	4	11		Lucente	Jerry Thomas, OSU Extension	Toledo	Conf. Call- Project Updates	2		x		
2005	4	11		Lucente	Gail Ritzler, OSU Sea Grant	Toledo	Performance Evaluation	2	x	x		
2005	4	12		Lichtkoppler	Sea Grant Mgt Team Conf Call	Painesville	PAT Agenda	5				

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2005	4	12		Riesen	Fred Snyder, District Specialist	Port Clinton	Office meeting	2				
2005	4	12		Kelch	Iorain county bass busters club	elyria	lake erie update	27				
2005	4	13		Hageman	Ottawa Co./Ohio Dept. of Health	Put-in-Bay	Facilities Inspection	2				
2005	4	13		Lichtkoppler	HabitattitudeTM	Painesville	AIS Aquarium Pets	6				
2005	4	13		Comer	Clean Marinas Executive Committee	Columbus	Clean Marinas Program		6			
2005	4	13		Riesen	Firelands Fly Fishers Angling Club	Sheffield	Current Lake Erie Topics and Spo	36				
2005	4	13		Kelch	clean marinas program conf call	elyra	clean marinas update	15				
2005	4	14		Hageman	Teachers from NW Ohio	Toledo	30th Educators Symposium	3				
2005	4	14		Lichtkoppler	Extension Staff	Painesville	Excel II training				11	
2005	4	14		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	13				
2005	4	14		Lucente	NW Ohio Econ. Dev. Assoc.	Toledo	NORED Mtg.	36				
2005	4	14		Comer	Meeting with Coastal Management Staff	Sandusky	Clean Marinas Program					
2005	4	14		Riesen	Rocky River Watershed Planning Comm	Rocky River	Rocky River Watershed Planning	8				
2005	4	14		Kelch	midview high school biology classes	graffon	lake erie invasive species	45				
2005	4	15		Snyder	Coastal Ohio	Amherst	Full Board Meeting	11				
2005	4	15	17	Hageman	Friends of Stone Lab Board	Gibraltar Island	Board Mtg	14				
2005	4	15		Lichtkoppler	LECO, Inc. Ex Comm	Amherst	LECO, Inc. Business	5				
2005	4	15		Lichtkoppler	Coastal Ohio	Amherst	Full Board Meeting	11				
2005	4	15		Lucente	OSU Extension Center at Lima	Findlay	Office Conference	15				
2005	4	16	17	Hageman	Friends of Stone Lab Volunteers	Gibraltar Island	Work Weekend	25				
2005	4	17		Hageman	Amy Below, Terra College	Gibraltar Island	Facilities Tour	6				
2005	4	19		Snyder	Lake Erie Anglers	Bay Village	Walleye Fishing Techniques	35				
2005	4	19		Lucente	Jerry Thomas, Jeff Reutter	Findlay	Performance Evaluation	3				
2005	4	19		Riesen	Lake Erie Anglers	Bay Village	Walleye Fishing Techniques	35				
2005	4	19		Kelch	lensc public walleye seminar	bay village	lake erie update, biology	75		x		
2005	4	20		Hageman	Ohio EPA, Solid Waste Mgmt Division	Oregon	Stone Lab Research & WS progra	30				
2005	4	20		Lichtkoppler	MARC	Painesville	SAMP implementation	6				
2005	4	20		Riesen	Women in the Outdoors Committee/Bl	Elyria	WITO Event Planning Meeting	9				
2005	4	21	22	Hageman	East Toledo Jr. High	Put-in-Bay	Aquatic Science Workshop Progra	47				
2005	4	21		Lichtkoppler	OSU Extension Faculty	Painesville	Promotion & Tenure	6				
2005	4	21		Lichtkoppler	OSU Extension Faculty	Geneva	Lake Erie Coastal Tour	23				
2005	4	21		Lichtkoppler	Fairport Rod & Reel	Fairport Harbor	Lake Erie Update	45				
2005	4	21		Kelch	oberlin college senior adult ed.	oberlin	lake erie dead zone	38				
2005	4	22		Hageman	Carroll Twp Elementary School	Carroll Twp	Changes in Lake Erie	125				
2005	4	22		Lichtkoppler	Citizens	Ashtabula	Secenic Byway Dedication	46				
2005	4	22		Kelch	beaver park marina	lorain	clean marina pre-site visit	5				
2005	4	23		Riesen	Western Basin Charter Boat Associator	Monroe, MI	Lake Erie Update	32				
2005	4	25	26	Riesen	Ohio Division of Wildlife	Burr Oak	Project Learning Tree Workshop				37	
2005	4	26		Hageman	Westside Montessori - Toledo	Put-in-Bay	Aquatic Science Workshop Progra	29				
2005	4	26		Lichtkoppler	Youth	Ashtabula	Lake Erie AIS	45				
2005	4	26		Lucente	Toledo Downtown New Urbanism Grp.	Toledo	New Urbanism	38				
2005	4	26		Kelch	elyria rotary club	elyria	lake erie update, fish advisory	47				
2005	4	27	29	Snyder	Lake Managers	Morrisville, NY	AIS-HACCP Certification	27	x	x		
2005	4	27	29	Hageman	Sewickley Academy - Pittsburgh, PA.	Put-in-Bay	Aquatic Science Workshop Progra			65		
2005	4	27		Lichtkoppler	G L Program Leaders Conf Call	Painesville	GL SG Extension	6				
2005	4	27		Comer	Spitzer's Marina Management Staff	Lorain	Pre OCMF Site Visit	4	x	x		
2005	4	27		Riesen	High school students in Envirothon prog	Fremont	Various Lake Erie ecology topics	203				
2005	4	27		Kelch	Iorain cty visitor bureau bd mtg	lorain	tourism planning	16				
2005	4	27		Kelch	spitzer marina north	lorain	clean marina pre-site visit	6				
2005	4	28		Lichtkoppler	Lake Co Commissioners	Painesville	LC Recycling & Lake Erie	22				
2005	4	28		Lucente	Toledo Local Government Leadership	Toledo	Data Analysis	4	x	x		
2005	4	28		Comer	Clean Marinas Advisory Board Mtg	Sandusky	Clean Marinas Program	17	x			
2005	4	28		Riesen	Middle school science students	Put-in-Bay	Stone Lab workshops/various lake	14				
2005	4	28		Kelch	Clean Marinas Advisory Board Mtg	Sandusky	Clean Marinas Program	17				

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2005	4	29		Hageman	Maumee High School	Put-in-Bay	Aquatic Science Workshop Progra			17		
2005	5	2		Hageman	E-O-S Pheasants Forever	Vickery	Monthly Board Meeting	7				
2005	5	2		Lichtkoppler	Survey Tom Blaine	Columbus	Survey Analysis	4				
2005	5	3		Hageman	Pheasants Forever TV Show	Gibraltar Island	Lake Erie CREP					XX
2005	5	3		Hageman	South Amherst MS	Put-in-Bay	Aquatic Science Workshop Progra			34		
2005	5	3		Comer	Coastal Training Program	Huron	Oil Spill Response	50				
2005	5	3		Riesen	US Coast Guard Station	Cleveland	Contacts/Pick up education materi	3				
2005	5	3		Riesen	Ohio Central Basin Steelheaders Board	Cleveland	Various angling-related issues	10				
2005	5	3		Kelch	ohio coastal training workshop	lorain	ohio sea grant, dead zone	35				
2005	5	4		Hageman	Richard Londraville	Gibraltar Island	Ichthyology Class Preparation	1				
2005	5	4		Hageman	Tim Governor	Stone Laboratory	School of NRE Safety Inspection	1				
2005	5	4		Riesen	Elementary School Students	Lakes Science Center, Cle	Fish and fishing	94				
2005	5	5		Hageman	Lily Everson, Chelsea Glorioso	Stone Laboratory	Shadows from Sandusky HS	2				
2005	5	5		Hageman	Worthington Christian MS	Put-in-Bay	Program Overview	94				
2005	5	5	6	Hageman	Worthington Christian HS	Put-in-Bay	Aquatic Science Workshop Progra			19		
2005	5	5	6	Hageman	Columbiana HS	Put-in-Bay	Aquatic Science Workshop Progra			11		
2005	5	5		Lucente	Joe Konen, OSU Extension	Toledo	Smart Growth Conf. Call	2		x		
2005	5	5		Kelch	central basin charterboat association	lorain	lake erie update, dead zone	24				
2005	5	6		Snyder	Sea Grant Admin.	Columbus	Performance Appraisal	8				
2005	5	6	7	Hageman	Pleasant View MS - Grove City	Put-in-Bay	Aquatic Science Workshop Progra			28		
2005	5	6		Lichtkoppler	FEE Conf Call	Columbus	Work on FEE	7				
2005	5	6		Lichtkoppler	Sea Grant Admin.	Columbus	Performance Appraisal	8				
2005	5	6		Lucente	Director's Internal Advisory Comm.	Columbus	Internal Staff, OSU Extension	14				
2005	5	6		Riesen	Families	Bay Village	Family Fun on Fridays, camping a	28				
2005	5	9		Snyder	J. Lucente	Toledo	Program Planning	2				
2005	5	9		Hageman	Tiffin City Heights Program	Put-in-Bay	Aquatic Science Workshop Progra			15		
2005	5	9	10	Hageman	Woodside M.S. - Fort Wayne, IN	Put-in-Bay	Aquatic Science Workshop Progra	43				
2005	5	9		Lucente	Public Officials, Planners, Etc.	Toledo	Cong. Marcy Captur-Lake Erie	85				
2005	5	10		Hageman	Elderhostel I	Gibraltar Island	Aquatic Science Workshop Progra			47		
2005	5	10	13	Hageman	Bloom-Carroll, Fairfield & Liberty Union	Gibraltar Island	Aquatic Science Workshop Progra	49				
2005	5	10		Lucente	Jerry Thomas, OSU Extension	Toledo	Project Planning- Conf. Call	2				
2005	5	10		Riesen	4-H Sea Camp Planning Committee	Bay Village	Sea Camp planning meeting	13				
2005	5	10		Kelch	sea camp conference call	elyria	4-h sea camp planning	13				
2005	5	11		Snyder	Portage Elementary Students	Port Clinton	Hooked on Fishing-Not Drugs	45				
2005	5	11		Lichtkoppler	Ashtabula River Partnership Coord	Ashtabula	River Cleanup	15				
2005	5	11		Lichtkoppler	Ashtabula River Partnership Project	Ashtabula	River Cleanup	16				
2005	5	11		Riesen	Portage Elementary School students	Port Clinton	Hooked on Fishing, Not on Drugs	25				
2005	5	12		Hageman	Troy Intermediate School - Avon Lake	Gibraltar Island	Aquatic Science Workshop Progra			31		
2005	5	12		Hageman	Wynford H.S. - Bucyrus	Gibraltar Island	Aquatic Science Workshop Progra			19		
2005	5	12		Lichtkoppler	Coastal Resources Adv Board	Mentor	Lake Erie Issues MARC Talk	11				
2005	5	12		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	11				
2005	5	12		Kelch	spitzer marina south	lorain	clean marinas pre-site visit	5				
2005	5	13	14	Snyder	Outdoor Writers Of Ohio, Inc.	Archbold	Annual Conference	38				
2005	5	13		Hageman	Immaculate Conception - Bellevue	Gibraltar Island	Aquatic Science Workshop Progra	64				
2005	5	13	15	Hageman	OSU - Dr Culver's Limnology Class	Gibraltar Island	Class Field Trip			5		
2005	5	14		Riesen	Handicap Anglers	Rocky River	Handicap Fishing Day	41				
2005	5	16		Hageman	Meadowlawn School I - Sandusky	Gibraltar Island	Aquatic Science Workshop Progra			32		
2005	5	16		Hageman	Columbus Public School	Columbus	Distance Learning Program - Fish	20				
2005	5	16	17	Hageman	Perry-McCord M.S. - Worthington	Gibraltar Island	Aquatic Science Workshop Progra	61				
2005	5	16		Riesen	Middle school science students	Put-in-Bay	Stone Lab workshops/various lake	16				
2005	5	17		Hageman	Meadowlawn School II - Sandusky	Gibraltar Island	Aquatic Science Workshop Progra			32		
2005	5	17		Hageman	Elderhostel II	Gibraltar Island	Aquatic Science Workshop Progra			47		
2005	5	17		Lichtkoppler	Lake Co CD interviews	Painesville	Hire a CD prog Asst	12				
2005	5	17		Lichtkoppler	Ashtabula Co Commissioners	Ashtabula	Scenic Byway & Sea Grant Update	5				



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2005	5	17		Lucente	Jerry Thomas, Hans Rosebrock	Findlay	NORED Project	3				
2005	5	17		Lucente	Smart Growth Conference Planning	Findlay	Smart Growth Conference-LE	6	x	x		
2005	5	17		Comer	Marina Operators: OCOMP Workshop	Painsville	Marina Operators	6	x	x		
2005	5	17	18	Riesen	Afterschool Discovery Program students	Ashtabula	Aquatic ecology and fishing topics	68				
2005	5	17		Kelch	Marina Operators: OCOMP Workshop	Painsville	Marina Operators	6	x	x		
2005	5	18		Snyder	GLSGN AIS-HACCP Committee	Port Clinton	Program Planning Conf Call	8				
2005	5	18		Hageman	Meadowlawn School III - Sandusky	Gibraltar Island	Aquatic Science Workshop Progra			32		
2005	5	18		Hageman	Oregon H.S.	Gibraltar Island	Aquatic Science Workshop Progra			18		
2005	5	18		Hageman	St. John's Lutheran School-Garfield Hts	Gibraltar Island	Facilities Tour	31				
2005	5	18	19	Hageman	Clintonville Academy	Gibraltar Island	Aquatic Science Workshop Progra	30				
2005	5	18		Lichtkoppler	Citizens & Agency	Painesville	Coastal County Forum	25				
2005	5	18		Lichtkoppler	MARC	Painesville	SAMP implementation	6				
2005	5	18		Riesen	Women in the Outdoors Committee/Blac	Elyria	WITO Event Planning Meeting	9				
2005	5	19		Snyder	Ohio Sea Grant Staff	Huron	Staff Meeting	9		x		
2005	5	19		Hageman	Meadowlawn School IV - Sandusky	Gibraltar Island	Aquatic Science Workshop Progra			32		
2005	5	19		Hageman	Ohio Sea Grant Staff	Huron	Staff Meeting	9				
2005	5	19	20	Hageman	Miamisburg M.S.	Gibraltar Island	Aquatic Science Workshop Progra			51		
2005	5	19		Lichtkoppler	Ohio Sea Grant Staff	Huron	Staff Meeting	9				
2005	5	19		Lucente	Ohio Sea Grant Staff	Huron	Staff Meeting	9				
2005	5	19		Riesen	Ohio Sea Grant Staff	Huron	Staff Meeting	9				
2005	5	19		Kelch	Ohio Sea Grant Staff	Huron	Staff Meeting	9				
2005	5	20		Snyder	Regional Extension Staff	Findlay	Staff Meeting	14				
2005	5	20	21	Hageman	Elgen West H.S.	Gibraltar Island	Aquatic Science Workshop Progra			31		
2005	5	20		Lichtkoppler	SG Assembly Ex Comm Conf Call	Painesville	Sea Grant Extension Issues	9				
2005	5	20		Lucente	Regional Extension Staff	Findlay	Staff Meeting	14				
2005	5	20		Riesen	Regional Extension Staff	Findlay	Staff Meeting	14				
2005	5	21		Hageman	Boy Scout Troop 555 - Columbus	Gibraltar Island	Aquatic Science Workshop Progra			34		
2005	5	22		Riesen	National Science Foundation high school	Cleveland	Shoreline Fishing Day	14				
2005	5	23		Snyder	Chicago Tribune Interview	Port Clinton	Lake Erie Walleyes					XX
2005	5	23		Hageman	Maumee Valley Country Day School - T	Gibraltar Island	Facilities Tour	29				
2005	5	23	26	Lichtkoppler	IAGLR Conference	Ann Arbor, MI	HabitattudeTM Presentation	25				
2005	5	23		Riesen	Rocky River Watershed Planning Comm	Rocky River	Rocky River Watershed Planning f	8				
2005	5	24		Snyder	OSU Aquaculture	Bowling Green	Aquaculturist Interviews	15				
2005	5	24		Hageman	OSU Campus Rec Staff	Gibraltar Island	Facilities Tour	8				
2005	5	24		Hageman	Whiteford M.S. - Ottawa Lake, MI	Gibraltar Island	Aquatic Science Workshop Progra			55		
2005	5	24	25	Hageman	W. Carrollton M.S.	Gibraltar Island	Aquatic Science Workshop Progra			29		
2005	5	24		Lucente	Ford Weber, City of Toledo	Toledo	Smart Growth Planning	2	x	x		
2005	5	24		Comer	Spitzer's Marina Management Staff	Lorain	Pre OCOMP Site Visit	5	x	x		
2005	5	24		Riesen	Great Lakes Science Center pre-school	Cleveland	Fish and fishing	20				
2005	5	24		Riesen	Walleye Anglers at Gander Moutain	Sheffield	Walleye Fishing topics	17				
2005	5	24		Kelch	gander mountain walleye seminar	sheffield village	walleye tactics, biology, update	17				
2005	5	25		Snyder	WLW Radio Interview	Port Clinton	Lake Erie Fishing					XX
2005	5	25		Hageman	Maumee Valley Country Day School II -	Gibraltar Island	Aquatic Science Workshop Progra	29				
2005	5	25	26	Hageman	Patterson School Horizons - Toledo	Gibraltar Island	Aquatic Science Workshop Progra			64		
2005	5	25		Comer	Karen Mathews / Flag Vendor	Huron	Clean Marinas Program	2		x		
2005	5	25		Riesen	Ohio Division of Wildlife	Columbus	Hooked on Fishing, Not on Drugs				26	
2005	5	25		Kelch	lorain county visitors bureau bd mtg	lorain	tourism planning	21				
2005	5	26		Snyder	Ohio Sea Grant Staff	Port Clinton	Lake Erie License Plate Conf. Call	8				
2005	5	26		Snyder	Port Clinton City Officials	Port Clinton	Transient Dockage Dedication				85	
2005	5	26		Snyder	Airstream Travel Club	Fremont	Lake Erie Update	42				
2005	5	26		Hageman	Maumee Valley Country Day School - T	Gibraltar Island	Facilities Tour	29				
2005	5	26		Hageman	Suzanne Cervenka - Port Clinton	Gibraltar Island	Story for Sandusky Register					XX
2005	5	26		Hageman	John Dorka - Chief, Ohio Div. of Foresty	Gibraltar Island	Pre-Tour, Foresters Association	2				
2005	5	26		Lucente	Sea Grant Staff	Toledo	Conf. Call-License Plate Plan	10				

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2005	5	26		Riesen	Sea Grant Staff	Toledo	Conf. Call-License Plate Plan	10				
2005	5	26		Riesen	Walleye Anglers	Akron	Walleye Fishing topics	23				
2005	5	27		Hageman	All Saints School - Rossford	Gibraltar Island	Aquatic Science Workshop Progra	39				
2005	5	31		Hageman	St. James School - Lakewood	Gibraltar Island	Facilities Tour	22				
2005	5	31		Hageman	Karen Vigmstad	Put-in-Bay	NE- Midwest Inst. Grant				1	
2005	5	31		Hageman	Madison Clark Christian Acad. - London	Gibraltar Island	Aquatic Science Workshop Progra			14		
2005	5	31		Kelch	sea camp conference call	elyria	4-h sea camp planning	14				
2005	6	1		Snyder	Ohio Sea Grant Staff	Columbus	Preproposal Review	10				
2005	6	1		Lichtkoppler	Ohio Sea Grant Staff	Columbus	Preproposal Review	10				
2005	6	1		Riesen	Rocky River Watershed Planning Comm	Rocky River	Rocky River Watershed Planning	9				
2005	6	1		Riesen	Women in the Outdoors Committee/Blad	Elyria	WITO Event Planning Meeting	9				
2005	6	2		Hageman	Buckeye Valley M.S. - Radnor	Gibraltar Island	Aquatic Science Workshop Progra			55		
2005	6	2		Lichtkoppler	Citizens	Mentor on the Lake	Coastal Erosion	6				
2005	6	2		Comer	Spitzer's Marina Management Staff	Lorain	OCMP Site Review	8	x	x		
2005	6	2		Comer	Ben Zientarski / Lakescreen Printing Ve	Lorain	OCMP incentives production	5		x		
2005	6	2		Riesen	Lake Erie Nature and Science Center st	Bay Village	Boy/Girl Scout program planning r	6				
2005	6	2		Kelch	spitzer marinas final site visit	lorain	clean marinas site visit	6				
2005	6	3		Hageman	Kenwood Elem - Bowling Green	Gibraltar Island	Aquatic Science Workshop Progra	76				
2005	6	3		Riesen	Middle school science students	Put-in-Bay	Stone Lab workshops/various lake	14				
2005	6	5	8	Lichtkoppler	Sea Grant Faculty & Staff	Rockport Maine	Sea Grant Week	45				
2005	6	6	7	Hageman	Lake Erie Millenium	Gibraltar Island	Habitat Mapping Conference			25		
2005	6	6		Lucente	Smart Growth Conference Planning	Toledo	Smart Growth Conf. Planning	5	x	x		
2005	6	6		Kelch	osu extension office	elyria	diversity training				x	
2005	6	7		Hageman	Stone Lab Departments	Columbus, Marion	Weekly Courier Run				2	
2005	6	7		Riesen	Ohio Central Basin Steelheaders Board	Cleveland	Various angling-related issues	12				
2005	6	7		Kelch	cleveland fishing association	cleveland	lake erie update	46				
2005	6	8		Hageman	Nat'l Assoc. of State Foresters	Gibraltar Island	Lake Erie Water Quality Mtg	14				
2005	6	8		Hageman	Terra Comm. College - Fremont	Gibraltar Island	Aquatic Science Workshop Progra	17				
2005	6	8		Comer	Sandusky Yacht Club Management	Sandusky	OCMP Pre Site Review	2				
2005	6	8		Kelch	Sandusky Yacht Club Management	Sandusky	OCMP Pre Site Review	2				
2005	6	9		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	11				
2005	6	9		Lucente	NW Ohio Econ. Dev. Assoc.	Toledo	NORED Mtg.	40				
2005	6	9		Comer	Eco-Tech Lubrications	Sandusky	Clean Marinas Program	3	x	x		
2005	6	9		Riesen	Lake Erie Nature and Science Center st	Bay Village	Boy/Girl Scout program planning r	7				
2005	6	9		Kelch	lucas ctg extension, sea grant office	toledo	underwater trailways grant plan	2	x	x		
2005	6	10		Hageman	Columbus Athletic Club	Catawba Island	Walleye Tournament Judge	60				
2005	6	10		Hageman	Amy Stoll, Marion Bookstore	Gibraltar Island	Stone Lab Bookstore Set-up				5	
2005	6	10		Lucente	Jerry Thomas, Hans Rosebrok	Toledo	NORED Project Conf. Call	3		x		
2005	6	10		Kelch	sea camp equipment check, planning	kelleys island	sea camp planning, gear check	13				
2005	6	11		Hageman	Celeste Krolak - OH Dept. Tourism	Put-in-Bay	Opportunities at Gibraltar Island	3				
2005	6	12		Hageman	S. L. Week 2 Students	Gibraltar Island	Stone Lab Orientation	44				
2005	6	13		Snyder	Regional Extension Staff	Findlay	Extension Reporting System	9				
2005	6	13		Lucente	Dave Kelch, Sea Grant	Toledo	Shipwreck Trail Proposal	2	x	x		
2005	6	14		Hageman	Stone Lab Departments	Columbus, Marion	Weekly Courier Run				2	
2005	6	14		Lichtkoppler	Grand River Partners, Inc.	Geauga Co.	Grand River Protection	12				
2005	6	14		Lucente	Don Lacy, Greg Davis, OSU Ext.	Toledo	Journal Article Conf. Call	3				
2005	6	14		Comer	Sea Grant Clean Marinas Staff Meeting	Sandusky	Clean Marinas Program		x			
2005	6	14		Riesen	Women in the Outdoors Committee/Blad	Medina	WITO Site Visit	5				
2005	6	14		Kelch	clean marinas conference call	elyria	kelch, comer, reutter planning	3				
2005	6	14		Kelch	sea camp training session, K. riesen	elyria	lure making, aquatic bio	2	x	x		
2005	6	14		Kelch	west cleveland walleye association	cleveland	lake eir update	36				
2005	6	15		Lichtkoppler	MARC	Painesville	SAMP implementation	7				
2005	6	15		Riesen	Lake Erie Nature and Science Center st	Bay Village	Teaching Kids to Fish workshop	5				
2005	6	16		Hageman	Stone Lab Students/Faculty	Gibraltar Island	Research Talk - Paul Rodewald			51		

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2005	6	16		Hageman	Stone Lab Students/Faculty & Guests	Gibraltar Island	Guest Lecture - Roseanne Fortner			51		
2005	6	16		Lichtkoppler	LC Ext Adv Comm	Mentor	Headlands Beach Tour	14				
2005	6	16		Lucente	OSU Extnsion	Columbus	Mtg. with Assistant CD Director	32				
2005	6	16		Comer	Lakefront Marina Management	Port Clinton	Pre OCMF Site Visit	4	x	x		
2005	6	16		Comer	Sandusky Yacht Club Management	Sandusky	OCMP Site Review	4				
2005	6	16		Kelch	Lakefront Marina Management	Port Clinton	Pre OCMF Site Visit	4				
2005	6	16		Kelch	Sandusky Yacht Club Management	Sandusky	OCMP Site Review	4				
2005	6	17		Snyder	Regional Extension Staff	Findlay	Staff Meeting	14				
2005	6	17		Lichtkoppler	LECO, Inc. Ex Comm	Pt Clinton	LECO mgt	6				
2005	6	17		Lichtkoppler	LECO, Inc.Full Board	Pt Clinton	LECO Scenic Byway	12				
2005	6	17		Lucente	Osu Center at Lima Staff	Findlay	Office Conference	16				
2005	6	17		Riesen	Women in the Outdoors Committee/Bl	Medina	WITO site set-up	13				
2005	6	18		Riesen	Women in the Outdoors members	Medina	Women in the Outdoors event/fish	25				
2005	6	18		Kelch	nwtf women in the outdoors	medina	outdoors skills, aquatic skills	102				
2005	6	19		Hageman	Stone Lab Term 1 & Week 3 Students	Gibraltar Island	Stone Lab Orientation	49				
2005	6	20		Hageman	Stone Lab Staff	Gibraltar Island	Lab Animal Protocol Training			35		
2005	6	20		Comer	Ohio Lake Management Society Board	Columbus	Ohio Lake Management	9				
2005	6	20		Riesen	Afterschool Discovery Program students	Ashtabula	Aquatic ecology and fishing topics	43				
2005	6	21		Lucente	Don Lacy, OSU Extension	Toledo	Leadership Poster Present.	2	x	x		
2005	6	22		Hageman	Visitors for Gibraltar Is Tours	Gibraltar Island	Gibraltar Is. Science & History	8				
2005	6	22		Lichtkoppler	Ashtabula River Partnership Project	Ashtabula	River Cleanup	22				
2005	6	22		Lichtkoppler	Ashtabula River Partnership Coord	Ashtabula	River Cleanup	20				
2005	6	22		Lucente	Glenn Grisdale, Reveille Ltd.	Toledo	Econ. Dev. Projects	2	x	x		
2005	6	22		Lucente	Toledo Smart Growth Committee	Toledo	Smart Growth Score Card	16				
2005	6	23		Snyder	Sandusky Register Interview	Port Clinton	Uses for Mayflies					XX
2005	6	23		Hageman	Black Swamp Bird Observatory	Put-in-Bay	Aquatic Science Workshop Progra			25		
2005	6	23		Hageman	McGraw - Hill Videographers	Gibraltar Island	Exotic Species Video				3	
2005	6	23		Hageman	Stone Lab Students/Faculty	Gibraltar Island	Research Talk - Richard Londravit			39		
2005	6	23		Hageman	Stone Lab Students/Faculty & Guests	Gibraltar Island	Guest Lecture - Richard Sayre			42		
2005	6	23		Riesen	Ohio Metroparks Tour/Staff contacts	us locations/shoreline co	Programming opportunities	13				
2005	6	24		Hageman	Jim Wallace	Put-in-Bay	Arr WS for Medina Co JVSD	2				
2005	6	24		Hageman	Matt Thomas/Chris Winslow	Lake Erie	Collect Ichthyoplankton				4	
2005	6	25		Hageman	Perry Group	S. Bass Lighthouse	Perry Group Fundraiser			200		
2005	6	26		Hageman	Ichthyoplankton ID WS Students	Put-in-Bay	Ichthyoplankton ID Workshop	6				
2005	6	26		Hageman	Week 4 Students	Gibraltar Island	Stone Lab Orientation	16				
2005	6	26	30	Riesen	4-H Sea Camp youth	Kelleys Island	Fishing basics/Lure-building	86				
2005	6	28		Hageman	BGSU Governors Summer Inst.	Gibraltar Island	Aquatic Science Workshop Progra			34		
2005	6	28		Hageman	Pheasants Forever State Council	Weston	Summer State Council Mtg				8	
2005	6	28		Lichtkoppler	LECO, Inc. & GLC	Ann Arbor, MI	Scenic Byway & Circle Tour	3				
2005	6	28		Lucente	Smart Growth Planning Committee	Toledo	Smart Growth Planning Call	5	x	x		
2005	6	29		Snyder	ODNR, Gov. Taft, Outdoor Media	Port Clinton	Fish Ohio Day				125	
2005	6	29		Hageman	ODNR, Gov. Taft, Outdoor Media	Port Clinton	Fish Ohio Day				90	
2005	6	29		Hageman	Fred Snyder, Instructor PAE 140.07	Port Clinton	New Class Schedule				2	
2005	6	29		Hageman	Eco-History Passport Guests	S. Bass Lighthouse	South Bass Lighthouse Tour			2		
2005	6	29		Hageman	Vistors for Gibraltar Is Tours	Gibraltar Island	Gibraltar Is. Science & History			8		
2005	6	29		Lichtkoppler	OSU Faculty	Painesville	LA Econ Grant Proposal	3				
2005	6	29		Lucente	Jerry Thomas, OSU Extension	Findlay	NORED Project	2	x	x		
2005	6	30		Snyder	Stone Laboratory	Put-in-Bay	Herdendorf Lecture, Fortner Retire				65	
2005	6	30		Hageman	NW Ohio Girl Scouts/Ottawa NWR	Gibraltar Island	Facilities Tour/ Workshop	23				
2005	6	30		Hageman	4-H Sea Camp	Gibraltar Island	Aquatic Science Workshop Progra			19		
2005	6	30		Hageman	Middle Bass Nature Camp	Gibraltar Island	Aquatic Science Workshop Progra			28		
2005	6	30		Hageman	Stone Lab Students/Faculty	Gibraltar Island	Research Talk - Larry Krissek			41		
2005	6	30		Hageman	Stone Lab Students/Faculty & Guests	Gibraltar Island	Guest Lecture - C.E. Herdendoff			69		
2005	6	30		Lichtkoppler	OCRMP	Huron	Lake Erie Issues	8				

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2005	7	1		Lucente	Dave Kelch, OSU Sea Grant	Toledo	LEPF Research	2		x		
2005	7	3		Hageman	GEO 584 Students	Gibraltar Island	Stone Lab Orientation	8				
2005	7	5		Hageman	Shane Stewart	Gibraltar Island	Shadow	1				
2005	7	5		Hageman	Dr. Richard Londraville	Peach Point Shoal	Assist with setting gill net	1				
2005	7	5		Kelch	South Cuyahoga Sportsmen Asso.	Cleveland	Fish contaminants, Advisory	80				
2005	7	5		Riesen	Rocky River Watershed Council	Rocky River	Site visit for Rocky River watershe	9		x		
2005	7	5		Riesen	Ohio Central Basin Steelheaders	Cleveland	Board of Directors meeting	13				
2005	7	5		Snyder	Ohio Sea Grant Administrators	Port Clinton	Admin. Conference Call	3				
2005	7	5		Snyder	Tom Mayher & Channel Grove anglers	Port Clinton	PAES 140.07 Preparation	4				
2005	7	6		Hageman	Visitors for Lighthouse Tour	S. Bass Is. Lighthouse	Tour	4				
2005	7	6		Hageman	Visitors for Gibraltar Is. Tour	Gibraltar Island	Science and History Tour	21				
2005	7	7		Comer	Sea Grant Staff Meeting	Sandusky	3 Month Performance Review	5				
2005	7	7		Hageman	Dr. Peter Curtis	Gibraltar Island	Research	1				
2005	7	7		Hageman	Fred Snyder	Gibraltar Island	PAE 140.07 Planning	1				
2005	7	7		Hageman	Terry Gentry	Put-in-Bay	Port Clinton Lab Purchase	1				
2005	7	7		Kelch	Performance Review-Comer	Wooster	Performance review for G. Comer	5				
2005	7	7		Lichtkoppler	Sea Grant Staff	Sandusky	Clean Marina Program Review	5				
2005	7	7		Lucente	Hans Rosebrock, First Energy	Toledo	NORED Presentation	2		x		
2005	7	7		Riesen	Fred Snyder	Sandusky	training	2				
2005	7	8		Hageman	Ohio Chapter Amer. Fisheries Soc.	Bellefontaine	OCAFS Summer Meeting	16				
2005	7	8		Hageman	School of Natural Resources Staff	Columbus	Dr. Rosanne Fortner retirement				120	
2005	7	8		Riesen	Toledo Public Library	Toledo	potential program meeting	2				
2005	7	9		Hageman	Ohio L.E.A.D. Program	Gibraltar Island	Aquatic Sci. Workshop Program	48				
2005	7	9		Hageman	Dr. Holomuski @ Old Woman's Creek	Huron	Delivery of Classroom Supplies					
2005	7	10	16	Snyder	PAES 140.07 Students - Stone Lab	Put-in-Bay	Laker Erie Sport Fishing-3 credhr	85	x	x		
2005	7	10		Hageman	Dr. Holomuski @ Old Woman's Creek	Huron	Delivery of Vehicles for EEO 785					
2005	7	11	12	Riesen	OSU fishing class	Put-in-Bay	sport fishing				14	
2005	7	11		Lucente	Lake Erie Smart Growth Committee	Toledo	Lake Erie Conference	7	x	x		
2005	7	11		Lucente	Jerry Thomas, OSUE	Toledo	Project Updates	2				
2005	7	12		Lucente	Hans Rosebrock, First Energy	Toledo	NORED Survey Analysis	2		x		
2005	7	13		Comer	State Park Managers	Mt Sterling	Clean Marinas Program	100				
2005	7	13		Hageman	Visitors for Lighthouse Tour	S. Bass Is. Lighthouse	Tour	0				
2005	7	13		Hageman	Visitors for Gibraltar Is. Tour	Gibraltar Island	Science and History Tour	0				
2005	7	13		Hageman	PAE 140.07 Class	Gibraltar Island	Introduction to Ice Fishing	11				
2005	7	13		Kelch	ODNR Coastal Forum Lorain Cty.	Lorain	Sea Grant, Dea Zone, Lake Erie	40				
2005	7	13		Lichtkoppler	MARC Committee	Painesville	Mentor Marsh	6				
2005	7	13		Riesen	Lake Erie Nature and Science Center st	Bay Village	camp Lake Erie	2				
2005	7	14		Comer	Beaver Park Marina Management Staff	Lorain	OCMP Pre Site Review	4	x	x		
2005	7	14		Comer	Beaver Park Marina North Management	Lorain	OCMP Pre Site Review	6	x	x		
2005	7	14		Hageman	PAE 140.07 Class	Lake Erie Islands	Precision Trolling Techniques	5				
2005	7	14		Hageman	Faculty/Students/Staff-Research Brief	Gibraltar Island	Dr. Bob Gates-L, Erie Waterfowl				38	
2005	7	14		Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. Jan Cyborowski-L, Erie WQ				43	
2005	7	14		Kelch	Beaver Park Marinas, North	Lorain	Prelim OCMP Site Visit	4				
2005	7	14		Kelch	Beaver Park Marina, South	Lorain	Prelim OCMP Site Visit	6				
2005	7	14		Lichtkoppler	Mentor Marsh Board	Mentor	Mentor Marsh	12				
2005	7	14		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Presentation	44		x		
2005	7	14		Lucente	Toledo Chamber Comm. Lead. Fund	Toledo	Leadership Academy Results	14		x		
2005	7	14		Riesen	Junior Naturalist Camp	Bay Village	shoreline fishing	15				
2005	7	15		Hageman	Old Woman's Creek Researchers	Huron	Dr. Joe Holomuski-Phragmites				60	
2005	7	15		Lichtkoppler	Coastal Training Group	Huron OWC	Phragmites Control				34	
2005	7	15		Lucente	Christian Hammond, LEC	Toledo	Grant Proposal	2				
2005	7	16		Hageman	Dr.David Klarer @ Old Woman's Creek	Huron	Pick up of Vehicles/Supplies					
2005	7	17	20	Lichtkoppler	National Assoc Co Ag Agents	Buffalo, NY	Sea Grant Posters					XX
2005	7	17	21	Lucente	Coastal Zone 2005 Conference	New Orleans, LA	Local Govt. Leadership Presnt.	500				

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2005	7	17		Hageman	ENT 126 Students	Gibraltar Island	Stone Lab Orientation	10				
2005	7	18		Hageman	Ohio Rep. Chris Redfern/Staff	Put-in-Bay	Legislator Visit Planning				10	
2005	7	18		Hageman	Bowling Green State Univ. Researcher	Put-in-Bay	Ichthyoplankton I.D.	3				
2005	7	18		Hageman	Faculty/Students/Staff	Gibraltar Island	Term One R.E.U. Presentations				43	
2005	7	18		Snyder	Dr. Jerry Thomas	Port Clinton	Sea Grant Update	1				
2005	7	19	21	Riesen	camp Lake Erie students	Bay Village	shoreline fishing	13				
2005	7	19		Hageman	Joe Purperi-Ohio Forester	Carroll Township	Emerald Ash Borer Training				2	
2005	7	19		Snyder	Ohio Aquaculturists	Castalia	Technology Update	4				
2005	7	20		Comer	Marina Operators: OCMP Workshop	Port Clinton	OCMP Workshop	14	x	x		
2005	7	20		Hageman	Visitors for Lighthouse Tour	S. Bass Is. Lighthouse	Tour	8				
2005	7	20		Hageman	Visitors for Gibraltar Is. Tour	Gibraltar Island	Science and History Tour	26				
2005	7	20		Kelch	OCMP Workshop	Port Clinton	Clean Marinas Workskop	14	x			
2005	7	21		Comer	OCMP Partner Agencies- EPA, ODNR,	Sandusky	OCMP Regulatory Review	10	x	x		
2005	7	21		Hageman	Put-in-Bay Nature Camp	Gibraltar Island	Aquatic Sci. Workshop Program			12		
2005	7	21		Kelch	OCMP Partner Agencies Mtg.	Sandusky	Regulatory Discussions	10				
2005	7	21		Lichtkoppler	Citizens	Mentor	Coastal Grants				21	
2005	7	22	24	Hageman	Radio Club	S. Bass Is. Lighthouse	Temporary Broadcasting Station			10		
2005	7	22		Lichtkoppler	Lake Erie Coastal Ohio (LECO)	Painesville	Coastal Tourism Conf call	7				
2005	7	23		Hageman	Dayton Power Squadron	Gibraltar Island	Facilities Tour			14		
2005	7	24	30	Snyder	EEOB 125 Students - Stone Lab	Put-in-Bay	Aquatic Biology - 3 credit hours	110				
2005	7	24		Hageman	EEO 125/ENT 520 Students	Gibraltar Island	Stone Lab Orientation	24				
2005	7	25		Comer	Huron Lagoons Marina Management	Huron	OCMP Pre Site Review	5	x	x		
2005	7	25		Hageman	Put-in-Bay Environmental Adventure	Gibraltar Island	R.O.V. Cruise/Demo			25		
2005	7	25		Kelch	Huron Lagoons Marina	Huron	Prelim OCMP Site Visit	5				
2005	7	25		Lichtkoppler	GL Program Leaders	Painesville	SG Extension Conf call	7				
2005	7	25		Lucente	OH Sea Grant	Toledo	Conference Call	15				
2005	7	26		Hageman	Lorain Co. Community College	Gibraltar Island	Aquatic Sci. Workshop Program			10		
2005	7	26		Hageman	WNWO-TV 24	Toledo	Live Interview-T-Storm Damage					XX
2005	7	26		Lichtkoppler	SG Staff	Painesville	Boat Titling Project conf call	4				
2005	7	26		Riesen	camp day at the beach	Bay Village	fishing and lake erie topics	8				
2005	7	27		Comer	Assistant Director ODNR/ Coastal Mana	Sandusky	Clean Marinas Program	20				
2005	7	27		Hageman	EEO 653-Fish Ecology Class	Gibraltar Island	Intro to Ichthyoplankton I.D.	8				
2005	7	27		Hageman	Visitors for Lighthouse Tour	S. Bass Is. Lighthouse	Tour	3				
2005	7	27		Hageman	Visitors for Gibraltar Is. Tour	Gibraltar Island	Science and History Tour	17				
2005	7	27		Lucente	Dave Kelch, OSU Sea Grant	Toledo	Shipwreck Proposal Develop.	2		x		
2005	7	28		Hageman	Bill and Charlene Prochaska	Gibraltar Island	F.O.S.L. Volunteer Projects					
2005	7	28		Hageman	Faculty/Students/Staff-Research Brief	Gibraltar Island	Dr. David Jude-Gobies			39		
2005	7	28		Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr.Chris Goddard-AIS			48		
2005	7	28		Lucente	NW OH Public Officials	Put-In-Bay	TMACOG Leg. Day	220				
2005	7	28		Riesen	camp day at the beach	Bay Village	shoreline fishing	8				
2005	7	29		Hageman	Frederick Family	Gibraltar Island	Facilities Tour	8				
2005	8	1		Kelch	Performance Review, Discuss	Wooster	Performance Review Kelch	5				
2005	8	1		Lichtkoppler	OSUE Faculty & Staff	Wooster	annual evaluation	5				
2005	8	1		Lucente	Lake Erie Smart Growth Committee	Toledo	Lake Erie Conference	5	x	x		
2005	8	2		Comer	Karen Mathews / Flag Vendor	Huron	Clean Marinas Program	2		x		
2005	8	2		Lichtkoppler	Citizens	Painesville	CD agermt interviews	12				
2005	8	2		Lucente	Dave Kelch, Osu Sea Grant	Toledo	Proposal Development	2				
2005	8	2		Riesen	USGS	Sandusky	field sampling, RV Muskie II	5				
2005	8	2		Snyder	Dr. Jerry Thomas	Port Clinton	Sea Grant Update	1				
2005	8	3		Hageman	Visitors for Lighthouse Tour	S. Bass Is. Lighthouse	Tour	8				
2005	8	3		Hageman	Visitors for Gibraltar Is. Tour	Gibraltar Island	Science and History Tour	10				
2005	8	4		Hageman	Dan Dunkley-MidWest Air Equip. Co.	Rsch and Stone Labs	Estimate Installation of Air Lines	4				
2005	8	4		Hageman	Faculty/Students/Staff-Research Brief	Gibraltar Island	Dr.Meg Daly-Deep Sea Life			35		
2005	8	4		Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr.'s Thompson-Climate change			41		

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2005	8	4		Hageman	Dr. Dave Jude	Peach Point Shoal	Set gill net for EEO 653 Class					
2005	8	4		Lucente	Joe Konen, OSU Extension	Toledo	Urban Program Conversation	2				
2005	8	5		Comer	Sea Grant Staff Meeting PAT	Lorain	PAT				7	
2005	8	5		Hageman	Dr. Dave Jude	Peach Point Shoal	Pull gill net					
2005	8	5		Hageman	Ohio Coastal Zone Mgmt Office Staff	Gibraltar Island	Aquatic Sci. Workshop Program	11				
2005	8	5		Kelch	OSG Staff Mtg	Lorain	Staff Mtg for PAT	7				
2005	8	5		Lichtkoppler	SG Staff	Elyria	SG Staff conf	9				
2005	8	5		Lucente	OSU Sea Grant	Elyria	Staff Meeting	10				
2005	8	5		Snyder	Ohio Sea Grant Staff	Elyria	Sea Grant Staff Meeting	10				
2005	8	7		Hageman	EEO 125/EEO 694 Students	Gibraltar Island	Stone Lab Orientation	18				
2005	8	8		Lucente	Jerry Thomas, OSU Extesion	Toledo	Project updates	2				
2005	8	9		Comer	Mentor Lagoons Marina Manager	Mentor	OCMP Pre Site Review		2			
2005	8	9		Lucente	Viki Schwartz, OSU Extension	Toledo	OSU Ext. Annual Conference	2				
2005	8	9		Riesen	Rocky River Watershed Council	North Olmstead	Rocky River watershed festival pla	13				
2005	8	9		Riesen	Frank Lichtkoppler	Painseville	GLFLI 2005	2				
2005	8	10	11	Hageman	Medina Co. Joint Vocational School	Gibraltar Island	Aquatic Sci. Workshop Program			7		
2005	8	10		Comer	Sandusky Harbor Marina Marina Manag	Sandusky	OCMP Pre Site Review		3			
2005	8	10		Hageman	Visitors for Lighthouse Tour	S. Bass Is. Lighthouse	Tour	7				
2005	8	10		Hageman	Visitors for Gibraltar Is. Tour	Gibraltar Island	Science and History Tour	22				
2005	8	10		Hageman	Ohio Legislators	Put-in-Bay	Facilities Tour/Science Cruises	75				
2005	8	10		Lichtkoppler	Legislators (Rep Redfern leg conf)	Stone Lab	SG programs	25				
2005	8	10		Snyder	Ottawa County Coastal Forum	Port Clinton	Coastal Issues Update	35				
2005	8	11		Comer	Cedar Point Marina Management Staff	Sandusky	OCMP Pre Site Review	2				
2005	8	11		Hageman	Ohio Rep. Chris Redfern Guests	Put-in-Bay	Luncheon Program			125		
2005	8	11		Hageman	Faculty/Students/Staff-Research Brief	Gibraltar Island	Joe Conroy-L. Erie Productivity					
2005	8	11		Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. David Culver-L. Erie Changes					
2005	8	11		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	12				
2005	8	11		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	Strategic Planning	35				
2005	8	11		Riesen	Fishermen at Gander Mountain	Sheffield	current lake erie topics	24				
2005	8	14		Hageman	Plant Pathology 685 Students	Gibraltar Island	Stone Lab Orientation	12				
2005	8	15	16	Hageman	Thomas More College	Gibraltar Island	Aquatic Sci. Workshop Program	6				
2005	8	15		Lucente	Ken Piel, Toledo Chaber of Comm.	Toledo	Leadership Academy	2		x		
2005	8	15		Snyder	Dr. Jerry Thomas	Port Clinton	Extension Update	1				
2005	8	16		Comer	Marina Del Isle Marina Management	Marblehead	OCMP Pre Site Review	4	3			
2005	8	16		Lucente	Ford Weber, City of Toledo	Toledo	Smart Growth	2		x		
2005	8	16		Riesen	National Science Foundation afterschoo	Cleveland	perch fishing charter	14				
2005	8	16		Riesen	FEE advisory committee	Bay Village	first meeting of FEE advisory com	8				
2005	8	16		Snyder	FEE Advisory Committee	Bay Village	Fisheries Extension Update	12		x		
2005	8	17		Comer	Sima Marine Marina Management	East Lake	OCMP Pre Site Review	3		x		
2005	8	17		Comer	Lake County Yacht Club Commodore M	East Lake	OCMP Pre Site Review	2		x		
2005	8	17		Hageman	Williams Co. SWCD Office Staff	Gibraltar Island	Facilities Tour	6				
2005	8	17		Hageman	Visitors for Lighthouse Tour	S. Bass Is. Lighthouse	Tour	2				
2005	8	17		Hageman	Visitors for Gibraltar Is. Tour	Gibraltar Island	Science and History Tour	24				
2005	8	17		Hageman	Faculty/Students/Staff	Gibraltar Island	Term Two R.E.U. Presentations			40		
2005	8	17		Lucente	Ken Martin, OSU Extension	Toledo	Toledo City Tour	2				
2005	8	18		Comer	Sandusky Harbor Marina Marina Manag	Sandusky	Clean Marinas Program	2				
2005	8	18		Comer	Marina Del Isle Marina Management	Marblehead	Clean Marinas Program	2		x		
2005	8	18		Hageman	Lagger Family	Gibraltar Island	Facilities Tour	2				
2005	8	18		Hageman	Lake Erie Nature and Science Center	Gibraltar Island	Aquatic Sci. Workshop Program			4		
2005	8	18		Lucente	Lucas County Advisory Committee	Toledo	Sea Grant Updates	16				
2005	8	18		Riesen	Lake Erie Nature and Science Center st	Bay Village	LENSC staff fishing basics	6				
2005	8	19		Lucente	Lake Erie Smart Growth Committee	Toledo	Lake Erie Conference	5	x	x		
2005	8	21	23	Comer	National Sea Grant Team	Columbus, Put-in-Bay	Program Assessment (PAT)	25				
2005	8	21	23	Kelch	National Sea Grant Team	Columbus, Put-in-Bay	Program Assessment (PAT)	35				

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2005	8	21	24	Lichtkoppler	National Sea Grant Team	Columbus, Put-in-Bay	Program Assessment (PAT)	35				
2005	8	21	23	Lucente	National Sea Grant Team	Columbus, Put-in-Bay	Program Assessment (PAT)	35				
2005	8	21	23	Riesen	National Sea Grant Team	Columbus, Put-in-Bay	Program Assessment (PAT)	35				
2005	8	21	24	Snyder	National Sea Grant Team	Columbus, Put-in-Bay	Program Assessment (PAT)	35		x		
2005	8	21	22	Hageman	National Sea Grant Team	Columbus, Put-in-Bay	Program Assessment (PAT)	30				
2005	8	24	26	Hageman	OSU Residence Life	Gibraltar Island	Conference			53		
2005	8	24		Comer	Dave Mackey Chief ODNR Coastal Mar	Sandusky	Clean Marinas Program	4				
2005	8	24		Hageman	Dr. Rosanne Fortner	Gibraltar Island	Sea Grant Education Material	6				
2005	8	25		Comer	Shelly Milliser & Bob Faflik Lake Front M	Port Clinton	Clean Marinas Program	3				
2005	8	25		Comer	Kathy Richmond Marina Del Isle	Marblehead	Clean Marinas Program	2		x		
2005	8	25		Comer	Coastal Marine II Management Staff	Port Clinton	Clean Marinas Program	3		x		
2005	8	25		Comer	Greg Deerhake Bass Haven Marina	Lakeside Marblehead	Clean Marinas Program	2		x		
2005	8	25		Comer	Rocky Piacentino Catawba Moorings	Port Clinton	Clean Marinas Program	2		x		
2005	8	26		Hageman	Great Lakes Sea Grant Conf. Call	Columbus	GLFLI Planning	6				
2005	8	26		Lichtkoppler	Great Lakes Sea Grant Conf. Call	Painesville	GLFLI Planning	6				
2005	8	26		Riesen	Great Lakes Sea Grant Conf. Call	Bay Village	GLFLI Planning	6				
2005	8	26		Snyder	Great Lakes Sea Grant Conf. Call	Port Clinton	GLFLI Planning	6				
2005	8	27		Riesen	Women in the Outdoors participants	Grand River	Women's fishing and lake ecology	22				
2005	8	30		Comer	Mike McElheny Edgewater Yacht Club INC	Cleveland	OCMP Pre Site Review	4				
2005	8	30		Comer	Whiskey Island Yacht Club Manager	Cleveland	OCMP Pre Site Review	4		x		
2005	8	30		Kelch	Edgewater Yacht Club	Cleveland	Prelim OCMP Site Visit	4				
2005	8	30		Kelch	Whiskey Island Yacht Club	Cleveland	Prelim OCMP Site Visit	4				
2005	8	31		Hageman	F.O.S.L./Bio-Sci Alumni	Columbus	Conference call re:Buckeye Hop	6				
2005	8	31		Lichtkoppler	Great Lakes Commission	Ann Arbor, MI	Coastal Tourism	3				
2005	9	1	2	Hageman	Hathaway Brown School-	Gibraltar Island	Aquatic Sci. Workshop Program	76				
2005	9	1		Lichtkoppler	ODNR Officials	Lake County	Coastal Erosion Tour	10				
2005	9	1		Snyder	Lakeside Elder Program	Lakeside	Lake Erie Fisheries	25				
2005	9	1		Snyder	NOAA Coastal Services Interview	Port Clinton	Sea Grant Discussion Board					XX
2005	9	1		Snyder	Lucas County Pond Owners	Whitehouse	Pond Management	28				
2005	9	2		Riesen	LENSC staff	Put-in-Bay	LENSC staff training	9				
2005	9	6	7	Hageman	Hilliard Station I	Gibraltar Island	Aquatic Sci. Workshop Program	39				
2005	9	6		Riesen	Ohio Central Basin Steelheaders	Cleveland	Board of Directors meeting	14				
2005	9	6		Snyder	Shawn McWhorter	Port Clinton	Aquaculture counseling	1				
2005	9	7	8	Hageman	Hilliard Station II	Gibraltar Island	Aquatic Sci. Workshop Program			38		
2005	9	7	8	Hageman	OSU A.T.I. Chairs	Gibraltar Island	Conference	5				
2005	9	7		Comer	Clean Marinas Advisory Board	Sandusky	Marina Certification Policy and ND	14	x	x		
2005	9	7		Hageman	Bruce Leach-Biological Sci Librarian	Gibraltar Island	Stone Lab Library Maintainance			1		
2005	9	7		Kelch	OCMP Advisory Board Meeting	Sandusky	OCMP Policy Changes	14				
2005	9	7		Lucente	Lake Erie Smart Growth Committee	Toledo	Lake Erie Conference	5	x	x		
2005	9	7		Snyder	BGSU Elder College	Huron	Lake Erie Fisheries	18				
2005	9	8	9	Hageman	Hilliard Station III	Gibraltar Island	Aquatic Sci. Workshop Program				37	
2005	9	8		Comer	Middle Bass Island Yacht Club	Middle Bass Is.	OCMP Site Review	4	x	x		
2005	9	8		Hageman	P-I-B Underwater CleanUp Committee	Put-in-Bay	UnderwaterCleanUpPlanning Mtg	6				
2005	9	8		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Meeting	41				
2005	9	9	11	Hageman	Friends of Stone Lab Board	Gibraltar Island	Last Board Meeting	16				
2005	9	9	16	Riesen	American Fisheries Society Conference	Anchorage, AK	Women's fishing and steelhead to	68				
2005	9	9		Comer	Rocky Point Marina / Bill Zigan	Lakeside	Clean Marinas Program	2	x	x		
2005	9	9		Hageman	Jefferson Elem.-Port Clinton	Gibraltar Island	Aquatic Sci. Workshop Program	46				
2005	9	9		Hageman	Kristina Smith/Polly	Gibraltar Island	Port Clinton News Herald Article	2				
2005	9	9		Snyder	The Vineyards Condominiums	Catawba Island	Pond Counseling	4				
2005	9	10		Hageman	Friends of Stone Lab	Gibraltar Island	Annual Gibraltar Is.Open House	703				
2005	9	10		Hageman	Friends of Stone Lab	S. Bass Is. Lighthouse	Annual Lighthouse Open House	306				
2005	9	10		Hageman	Friends of Stone Lab	Gibraltar Island	Annual Meeting	45				
2005	9	11		Hageman	Friends of Stone Lab Board	Gibraltar Island	First Board Meeting	16				

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2005	9	12	13	Hageman	Gahanna Christian Academy	Gibraltar Island	Aquatic Sci. Workshop Program			39		
2005	9	12	14	Hageman	Aquatic Invasive Species Database	Gibraltar Island	Conference			19		
2005	9	12		Comer	Ohio Lake Management Society Board	Columbus	Quarterly Business Mtg.	8				
2005	9	12		Hageman	Marblehead Lighthouse Vol. Staff	Gibraltar/S.B. Lighthouse	Facility Tour-Gib/S.B. Lighthouse	47				
2005	9	12		Lucente	Jerry Thomas, OSU Extension	Toledo	Project updates	2				
2005	9	13	14	Hageman	OSU Master Gardeners	Gibraltar Island	Aquatic Sci. Workshop Program	20				
2005	9	13		Hageman	OSU Extension Huron Co. Office Staff	Gibraltar Island	Facilities Tour	9				
2005	9	13		Lichtkoppler	Grand river Partners	Lake County	Watershed MGT	12				
2005	9	13		Snyder	OSU Roads Scholars	Port Clinton	Lake Erie Update	35				
2005	9	14	15	Snyder	Cedar Point In-Water Boat Show	Sandusky	Ohio Sea Grant Information Booth					XX
2005	9	14	18	Comer	Cedar Point In-Water Boat Show	Sandusky	Ohio Sea Grant Information Booth					XX
2005	9	14	18	Kelch	Cedar Point In-Water Boat Show	Sandusky	Ohio Sea Grant Information Booth					XX
2005	9	14		Hageman	Bataan Elem.-Port Clinton	Gibraltar Island	Aquatic Sci. Workshop Program			48		
2005	9	14		Lichtkoppler	ARP Annual Meeting	Ashtabula	ARP Progress	36				
2005	9	14		Lucente	Lake Erie West Meeting	Toledo	Lake Erie West	14				
2005	9	15	16	Hageman	Dempsey M.S.-Delaware	Gibraltar Island	Aquatic Sci. Workshop Program	33				
2005	9	15		Hageman	Franklin Elem.-Elyria	Gibraltar Island	Aquatic Sci. Workshop Program			40		
2005	9	15		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	11				
2005	9	16	18	Hageman	OSU Council of Graduate Students	Gibraltar Island	Conference			10		
2005	9	16		Hageman	St. Marys of the Falls-Olmstead Falls	Gibraltar Island	Aquatic Sci. Workshop Program	28				
2005	9	16		Hageman	Boy Scout Troop #563-Columbus	Gibraltar Island	Aquatic Sci. Workshop Program			11		
2005	9	16		Lichtkoppler	LECO, Inc.	Pt Clinton	Coastal tourism	15				
2005	9	18		Hageman	Cedar Point In-Water Boat Show	Sandusky	Ohio Sea Grant Information Booth					XX
2005	9	19	20	Hageman	Jonathan Alder HS-Plain City	Gibraltar Island	Aquatic Sci. Workshop Program			26		
2005	9	19		Comer	Sea Grant Staff Meeting	Sandusky	Clean Marinas Program		3			
2005	9	19		Hageman	West Holmes HS-Millersburg	Gibraltar Island	Aquatic Sci. Workshop Program			19		
2005	9	19		Hageman	Volunteers for Underwater CleanUp	Put-in-Bay	P-I-B Underwater Clean Up	200				
2005	9	19		Hageman	E-O-S Co. Pheasants Forever Board	Vickery	Monthly Board meeting	8				
2005	9	19		Kelch	OSG OCMF Mtg. Conference Call	Lorain	OCMP Concerns	3				
2005	9	19		Riesen	Rocky River Watershed Council	Rocky River	Rocky River watershed festival pla	9				
2005	9	19		Snyder	Dr. Jerry Thomas	Port Clinton	Sea Grant Update	1				
2005	9	20	21	Riesen	Farm Science Review attendees	Columbus	fly fishing	26				
2005	9	20	22	Lichtkoppler	America's Byways™	Washington DC	Get National Certification LECO T	125				
2005	9	20		Hageman	Assoc. of Ohio Life Insurance Offices	Gibraltar Island	Facilities Tour	12				
2005	9	20		Hageman	Put-in-Bay Elderhostel Program	Gibraltar Island	Aquatic Sci. Workshop Program			27		
2005	9	20		Hageman	Put-in-Bay Elderhostel Program	Put-in-Bay	Introduction to Ice Fishing	28				
2005	9	21	23	Hageman	North American Marine Laboratories	Gibraltar Island	Conference			17		
2005	9	21		Comer	Brenner Marine	Toledo	OCMP Site Review	3	x	x		
2005	9	21		Comer	Peir 75 Marina	Toledo	OCMP Site Review	3	x	x		
2005	9	21		Hageman	Cincinnati School System Treasurers	Gibraltar Island	Facilities tour	8				
2005	9	21		Hageman	Portage Elem.-Port Clinton	Gibraltar Island	Aquatic Sci. Workshop Program			48		
2005	9	21		Hageman	L.Erie Is. Chapter, Ducks Unlimited	Put-in-Bay	Annual Banquet	96				
2005	9	21		Lucente	Don Smith, Brenner Marine	Toledo	Clean Marinas, Marina District	3				
2005	9	21		Riesen	Lake Erie Nature and Science Center b	Bay Village	Ohio Sea Grant and LE fishery	23				
2005	9	22	23	Hageman	Bellefontaine H.S.	Gibraltar Island	Aquatic Sci. Workshop Program			9		
2005	9	22		Hageman	Family Tour	Gibraltar Island	Facilities Tour	8				
2005	9	22		Lucente	Building Industry Leadership	Elyria	Lake Erie Conference Support	3	x	x		
2005	9	22		Riesen	Ohio Central Basin Steelheaders	Eastlake	General meeting	43		X		
2005	9	23	24	Hageman	Milford Jr.High	Gibraltar Island	Aquatic Sci. Workshop Program	48				
2005	9	23		Hageman	Lakota MS-Amsden	Gibraltar Island	Aquatic Sci. Workshop Program	35				
2005	9	23		Lucente	OSU Ext. Director's Advisory Comm.	Columbus	Advisory Committee Mtg.	20				
2005	9	23		Riesen	Stone Lab workshops	Put-in-Bay	lake erie topics	35				
2005	9	24		Hageman	Columbus Sail and Power Squadron	Gibraltar Island	Facilities Tour			7		
2005	9	25	30	Riesen	National Sea Grant Academy	Pensacola, FL	new hire training				36	



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2005	9	26		Comer	Coast Management Staff & NOAA repre	South Bass Island	Coastal Management			50		
2005	9	26		Hageman	Meadowlawn M.S. I-Sandusky	Gibraltar Island	Aquatic Sci. Workshop Program			51		
2005	9	26		Lichtkoppler	Great Lakes Program Leaders	Painesville	SG Extension Conf call	6				
2005	9	26		Lucente	Lake Erie Smart Growth Committee	Toledo	Lake Erie Conference	5	x	x		
2005	9	26		Lucente	Julia Harris, OnCampus News	Toledo	Leadership Academy Interview	2				XX
2005	9	27	28	Snyder	Sandusky County Fourth Graders	Fremont	Aquatic Science	480				
2005	9	27		Hageman	Meadowlawn M.S. II-Sandusky	Gibraltar Island	Aquatic Sci. Workshop Program			51		
2005	9	27		Lucente	Batelle Study External Review Team	Columbus	Batelle Report-Extension	40				
2005	9	28	30	Hageman	Columbus School for Girls	Gibraltar Island	Aquatic Sci. Workshop Program	64				
2005	9	28		Kelch	Lorain Cty Visitors Bureau Bd Mtg	Lorain	Tourism Issues	22				
2005	9	28		Lichtkoppler	P&T Committee	Columbus	CAFES P&T	12				
2005	9	29		Comer	Mike McElheny Edgewater Yacht Club I	Cleveland	OCMP Final Site Visit	3	x			
2005	9	29		Comer	Beaver Park Marina Management	Lorain	OCMP Final Site Visit	3				
2005	9	29		Comer	Beaver Park North Inc. Management	Lorain	OCMP Final Site Visit	4				
2005	9	29		Kelch	Edgewater Yacht Club	Cleveland	OCMP Final Site Visit	3				
2005	9	29		Kelch	Beaver Park Marina, South	Lorain	OCMP Final Site Visit	3				
2005	9	29		Kelch	Beaver Park North, Inc.	Lorain	OCMP Final Site Visit	4				
2005	9	30		Lichtkoppler	GLC	Painesville	Tourism Conf call	8				
<b>Totals through SEP 2005</b>								<b>16,535</b>	<b>89</b>	<b>2,903</b>	<b>2,548</b>	<b>36</b>