

Sea Grant

RESEARCH
EDUCATION
OUTREACH

Ohio Sea Grant
College Program
Progress Report
2002 - 2003

Jeffrey M. Reutter, Ph.D, *Director*
OHSU-TB-066



Ohio Sea Grant College Program Progress Report 2002 - 2003

OHIO SEA GRANT

Ohio Sea Grant College Program
F.T. Stone Laboratory
Center for Lake Erie Area Research
Great Lakes Aquatic
Ecosystem Research Consortium
The Ohio State University
1314 Kinnear Road
Columbus, Ohio 43212-1194
Phone: 614.292.8949
Fax: 614.292.4364
www.sg.ohio-state.edu

Director — Dr. Jeffrey M. Reutter, reutter.1@osu.edu

Communications Coordinator

Jill Jentes Banicki, jentes.1@osu.edu

Communications Assistant & Publications Manager

Nancy Cruickshank, cruickshank.3@osu.edu

Database Manager — Lisa Griffin, griffin.83@osu.edu

Education Coordinator — Dr. Rosanne W. Fortner, fortner.2@osu.edu

Fiscal Officer — John L. Tripp, tripp.3@osu.edu

Graphic Designer — Cindy Hayter Allison, hayter.2@osu.edu

Office Associate — Bonita Cordi, cordi.2@osu.edu

STONE LABORATORY

**F.T. Stone Laboratory
(Field Station)**

P.O. Box 119
Put-in-Bay, Ohio 43456
Phone: 614.247.6500
or 419.285.2341
Fax: 614.247.6578

Director — Dr. Jeffrey M. Reutter, reutter.1@osu.edu

Associate Director — Dr. Rosanne W. Fortner, fortner.2@osu.edu

Laboratory Manager — John Hageman, hageman.2@osu.edu

Assistant Laboratory Manager — Matt Thomas, thomas.347@osu.edu

Program Coordinator — Arleen Pineda, pineda.2@osu.edu

Office Associate — Kelly Dress, dress.3@osu.edu

Manager of Housing & Food Services — Steve Martin, martin.220@osu.edu

Superintendent for Physical Facilities — Al Duff



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*Additional copies
of this document
are available from
Ohio Sea Grant.
For more information,
contact the
Columbus Office.*

OHIO SEA GRANT EXTENSION STAFF

Painesville

Frank Lichtkoppler, lichtkoppler.1@osu.edu

Lake County Extension Office, 99 E. Erie Street, Painesville, OH 44077
440.350.2582, Fax 440.350.5928

Cleveland

Walter D. Williams, wwilliams@clevegrowth.com

Greater Cleveland Growth Assoc., 200 Tower City Cntr, 50 Public Square, Cleveland, OH 44113-2291
216.621.3300, Fax 216.621.6013

Elyria

Dave Kelch, kelch.3@osu.edu

Lorain County Extension Office, 42110 Russia Road, Elyria, OH 44035
440.326.5851, Fax 440.326.5878

Port Clinton

Fred Snyder, snyder.8@osu.edu

Camp Perry, Building 3, Room 12, Port Clinton, OH 43452
419.635.1022 (Phone & Fax)

Stone Laboratory John Hageman, hageman.2@osu.edu

F. T. Stone Laboratory, P. O. 119, Put-in-Bay OH 43456
419.285.2341 or 614.247.6500, Fax 614.247.6578

Toledo

Joseph Lucente, lucente.6@osu.edu

Lucas County Extension Office, One Gov. Ctr, Suite 550, Toledo, OH 43604
419.213.4254, Fax 419.213.4241

Ohio Sea Grant College Program Progress Report 2002-2003



Ohio Sea Grant College Program



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OHIO SEA GRANT COLLEGE PROGRAM

PROGRESS REPORT 2002-2003

Jeffrey M. Reutter, Ph.D., Director

Program Highlights from 2003

This has been a great year for the program with some exciting research results and the creation of six new endowments.

Enrollment at Stone Laboratory. During the summer of 2003, a total of 169 students from 12 colleges and universities and 40 high schools took college courses at Stone Laboratory. Since 1990, students from 88 colleges and universities and 312 high schools have taken college courses at Stone Laboratory, and since 2000, students from 43 colleges and universities and 126 high schools have taken courses there. With the assistance of the Friends of Stone Laboratory (FOSL) we were able to award 41 scholarships totaling \$17,264 in 2003. The FOSL also awarded six scholarships to outstanding high school students at State Science Day sponsored by the Ohio Academy of Science.

Outreach at Stone Laboratory. Our spring and fall aquatic workshop/field trip/conference program attracted 153 groups and 5,755 participants (record) in 2002, and 177 groups (record) and 5,709 participants in 2003.

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. To get all the bugs out of the system, the summer Guest Lecture series was broadcast to main campus and a fish dissection laboratory exercise was broadcast to Westerville North High School in central Ohio.

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, and 9 in 2003, while the Columbus Public Schools' I Know I Can Program supported 14 students in 2001, 9 in 2002, and 11 in 2003.

Research. During 2002, 23 investigators and 53 students and technicians from 15 agencies and universities worked on 22 research projects at Stone Laboratory. During 2003, 26 investigators and 46 students and technicians from 16 agencies and institutions worked on 24 projects at Stone Laboratory. During 2002-2003 Ohio Sea Grant supported 40 large, competitively funded projects, including 22 new projects. We also supported 24 development fund projects, including 19 new projects. These investigators came from 10 universities. During 2002-2003 Sea Grant scientists produced 64 publications and made 159 scientific presentations, and supported 41 students on their projects.

GOOS/IOOS. Dr. Reutter was named to the National Steering Committee for the Global Ocean Observing System for the Integrated Ocean Observing System. The Sea Grant Association asked him to Chair a Sea Grant Work Group composed of Sea Grant representatives from each of the Regional Observation Associations.

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 this year 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, and much more. **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 2004.

Web Site and Electronic Reports. Our web site (www.sg.ohio-state.edu) was significantly improved in 2002 and 2003 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. 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, and through the first nine months of 2003 it had approximately 1.2 million hits. In April 2001 Dr. Reutter made a presentation on the reporting system to the Sea Grant Association and offered the system to all Sea Grant programs. To date 20 programs have requested the system.

Creation of New Endowments. Clearly 2003 was a banner year for our fundraising efforts with the creation of six new research/education/outreach/and development endowments. Two new research endowments (Franz and Kate Stone Fund and John L. Crites Fund) totaling approximately \$425,000 were created; two scholarship endowments (Kelly Prochazka and Spark Baumler Memorial Endowments) totaling \$50,000 were created; an education, outreach and development endowment (John H. Dunlap, Jr. Fund) with a current total of just over \$50,000 and with a planned \$75,000 addition for 2004, was created; and a botany teaching endowment was created with a deferred gift of \$500,000 (Ronald L. and Darwin Stuckey Fund). Another scholarship endowment (\$25,000), the Sally and Jackson Smith Fund, will be completed in 2004.

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. A more complete listing of accomplishments and activities can be found in Appendix E.

- In February 2002 and 2003 we hosted the fourth and fifth Sea Grant/Stone Laboratory Winter Lecture Series in Columbus. These programs focused on aquatic research conducted at the Columbus Zoo and Aquarium and sport fishing in Lake Erie.
- In May 2002, we hosted the Annual Meeting of the Great Lakes Aquatic Nuisance Species Panel at Stone Laboratory.
- In June 2002, we hosted the Nature Conservancy's Island Research Colloquium at Stone Laboratory.
- In July 2002, Ohio Sea Grant hosted its 14th State Legislature/Congressional Day on Lake Erie. The all-day event attracted elected officials and decision makers from over 25 offices. This was also the 20th anniversary of our first program in 1982 and the 25th anniversary of the Ohio Sea Grant College Program.
- In September 2002 the FOSL hosted the Fifth Annual Stone Laboratory Open House with Ohio Sea Grant and the Lake Erie Commission. Over 650 people attended the all-day event. The program was repeated in September 2003 with over 900 (new record) in attendance.
- In September 2002 we hosted the Annual Meeting of the International Association of Amusement Parks and Attractions at Stone Laboratory.
- On 14 August 2003, we co-hosted the second Put-in-Bay Legislative Day with Representative Chris Redfern and Senator Randy Gardner. Over 40 elected officials attended.
- In September 2003 we hosted a weekend training session for the Great Lakes Fisheries Leadership Institute.
- In 2003 our economic development agent in Cleveland brought in \$5.7 million of investment and 117 new jobs to the area.

Fellowships

Sapna Batish and Melissa Haltuch, both Ph.D. candidates in the Environmental Sciences Program at Ohio State University, finished Knauss Fellowships in Washington in early 2002. Sapna spent her year working for National Environmental Satellite Data Information Service (NESDIS) of NOAA and Melissa worked in the US State Department on the Pacific Treaty. Sapna is staying with NESDIS to continue her research and Melissa has started a new fellowship with National Marine Fisheries Service and the University of Washington in Seattle. In June 2002, Elizabeth Moore, from the Ohio State University Environmental Sciences Program, concluded a one-year fellowship at the Great Lakes Commission working on Great Lakes watershed issues. She was subsequently hired as a regular employee of the Commission. Felix Martinez, a Ph.D. candidate in The Ohio State University department of Evolution, Ecology and

Organismal Biology, began his Knauss year in Washington on 1 February 2003 and LeAnn Southward from the same department was selected as a fellow for 2004.

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 holds leadership appointments within their communities, the state, and the University as do many of our Sea Grant researchers and educators. In 2000 Dr. Reutter completed a 3-year term as the US Co-Chair of the IJC Council of Great Lakes Research Managers, where he has been a member since 1989 and will remain a member. In 2002, he was re-appointed by the Governor to a two-year term as one of Ohio's two representatives on the Board of Directors of the Great Lakes Protection Fund. In November 2002 he completed a 3-year term on the Executive Committee of the Board of Oceans and Atmospheres of NASULGC. In October 2001 he was elected President-Elect of the National Association of Marine Laboratories and became President in October 2003. In August 2002 and August 2003 he was asked to speak before a US Senate Committee on the Dead Zone in Lake Erie and in September 2002, he was asked to speak before the Ocean Commission on the Aquatic Nuisance Species problem. In 2003 he was named to the National GOOS Steering Committee, asked to Chair a Sea Grant Work Group on this same issue, and elected to the Board of Trustees of the Ohio Academy of Science.

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. Federal support remains very strong, but state support for our line item has fallen slightly in the past two years due to the economy and the state budget crisis. Support for the National Sea Grant College Program within Congress remains strong, the program has just been reauthorized for five years, and the federal budgets looks good. As noted above, donations in the past year have been the highest in the 107-year history of the programs. Furthermore, while state support for our line item has been reduced in recent years, a new bill is working through the Legislature that will create a new Lake Erie license plate recognizing the Lake as the Walleye Capital of the World. Proceeds from the sale of the plate are to come to the Ohio Sea Grant College Program.

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.
 - b. Raise funds to renovate the Stone Laboratory Research Building.

- c. Raise funds to construct new faculty/research housing at Stone Laboratory.
 - d. Raise funds for research and scholarship endowments.
- 2) Revise our Strategic Plan to follow the pattern of the NOAA Strategic Plan and incorporate goals from the Universities Academic Plan and the priorities of the Council of Great Lakes Governors, the Great Lakes Commission, the Great Lakes Mayors, the International Joint Commission, and the Lake Erie Commission.
 - 3) 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.
 - 4) Develop markets and products from Sea Grant biotechnology, aquaculture and underwater welding research.
 - 5) Continue to lead efforts to address the Lake Erie Dead Zone and to strengthen the Lake Erie at the Millennium Network.
 - 6) Develop formal relationships between Ohio Sea Grant/Stone Laboratory and federal and state agencies.
 - 7) Hire an assistant director to help with the administration of the program.
 - 8) Try to hire a post-doc to coordinate modeling and proposal development efforts at Stone Laboratory.
 - 9) Hire a new Fisheries Extension Agent to be housed at the Lake Erie Nature and Science Center (LENSC). Coordinate the activities of this agent with LENS, the Ohio Division of Wildlife, the Great Lakes Fishery Commission, the Great Lakes Sport Fishing Council, and the Recreational Boating and Fishing Foundation.
 - 10) Increasingly focus fund raising efforts on larger donations and the development of large endowments.

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)—2002 & 2003

Federal Sea Grant Funding

\$1,059,200	Omnibus 1 March 2002 (Grant No. NA16RG2252)
30,000	Fisheries Extension—Regional Programming
10,000	Fisheries Extension—National Programming
15,000	Fisheries Extension Addendum
85,620	Sea Grant Technology
32,669	Two ANS Projects—Year 2 of 2—Fortner and Snyder
348,000	Stone Laboratory facilities and equipment—NOAA
21,762	US EPA—Distance learning from Stone Laboratory
\$1,602,251	Subtotal 2002
\$1,059,200	Omnibus 1 March 2003 (Grant No. NA16RG2252)
38,000	Knauss Fellow—Martinez
38,400	Ship Time from NOAA
99,999	National Aquatic Nuisance Species Report
32,445	ANS/Bait Fish/HACCP—GLPF/Univ. Minnesota
254,139	Marine Biotechnology Supplemental Funding—Sayre
37,422	ANS Supplemental Funding—Lichtkoppler
\$1,559,605	Subtotal 2003
\$3,161,856	Total Federal 2002-03

Matching Support from Universities

\$ 691,828	2002 Sea Grant Omnibus
15,001	Fisheries Extension—Regional Programming
7,500	Fisheries Extension Addendum
58,002	Sea Grant Technology
20,499	Two ANS Projects—Year 2 of 2—Fortner and Snyder
34,334	KSU subcontract from State Line Item—Heath
10,000	LEPF—Millennium Report
\$ 837,164	Subtotal 2002
\$ 677,688	2003 Sea Grant Omnibus
165,935	Marine Biotechnology Supplemental Funding—Sayre
18,712	ANS Supplemental Funding—Lichtkoppler
\$ 862,335	Subtotal 2003
\$ 1,699,499	Total University Match 2002-03

State Line Item (1 July 2002 to 30 June 2004)

FY 03 \$281,940
FY 04 274,884
Total \$556,824

Ohio State University Support (Operating Budgets)

	<u>FY03</u>	<u>FY04</u>	<u>2-Year Total</u>
Sea Grant/CLEAR	\$163,403	\$176,571	\$339,974
Stone Laboratory	<u>265,980</u>	<u>281,857</u>	<u>547,837</u>
Total	\$429,383	\$458,428	\$887,811

Private Sector Contributions

\$ 25,000	Approximate total for 14 th State Legislature Day, 19 July 2002
10,000	Approximate value of booth space at boat shows and sport shows
822	Sandusky-Erie Co. Community Foundation—Legislator's Ed. Fund 2002
1,061	Sandusky-Erie Co. Community Foundation—Legislator's Ed. Fund 2003
531	Sandusky-Erie Co. Community Foundation—Educa. & Res. Fund 2002
<u>519</u>	Sandusky-Erie Co. Community Foundation—Educa. & Res. Fund 2003
\$37,933	Total

Endowments

Donations have been stronger than ever and six new endowments were created in 2002 and 2003. The newly created endowments are the John L. Crites Research Fellowship; the Franz T. Stone Laboratory Research Endowment Fund; the Kelly Prochazka Memorial Scholarship Fund; the Wilbert "Spark" Baumler Memorial Scholarship Fund; the John H. Dunlap, Jr. Fund for Education, Outreach and Development; and the Ronald L. and Darwin Stuckey Stone Laboratory Student Fellowship Fund. In 2004 we expect to complete the A. Jackson and Sally Koepp Smith Scholarship Fund.

John L. Crites Research Fellowship at Stone Laboratory. John L. Crites was a former Associate Director for Research at Stone Laboratory. He is also an accomplished artist. He donated four pen and ink drawings of Stone Laboratory buildings to the Friends of Stone Laboratory. They had them duplicated, Dr. Crites numbered the prints, and they were distributed at \$250 each to raise \$25,000. Income from this endowment will be used for graduate and undergraduate student research fellowships at Stone Laboratory.

Franz T. Stone Laboratory Research Endowment Fund. This endowment was created with contributions from the will of Kate Stone, wife of Franz Stone. Franz was the son of Julius Stone who donated Gibraltar Island to The Ohio State University in 1925 to serve as Ohio's Lake Erie Laboratory. When Kate died she left us the deeds to two farms valued at approximately \$450,000. In 2003 the University gave the program the face value of the deeds so that we could begin benefiting from the donation immediately.

Kelly Prochazka Memorial Scholarship Fund. Kelly first attended Stone Laboratory as a middle school student participating in one of our aquatic workshops. She loved the experience and came back as a high school sophomore to take an introductory course. She returned for another introductory course after her junior year. She died unexpectedly during her senior year. Her parents said Stone Laboratory had been one of the most important and influential things in Kelly's life and designated the Laboratory to receive gifts in Kelly's name. Her parents, with the help of the Friends of Stone Laboratory, went on to create this endowment to support high school students participating in introductory college courses at Stone Laboratory.

Wilbert "Spark" Baumler Memorial Scholarship Fund. Spark was one of the founding members of the North Central Ohio Sea Grant Advisory Committee and regularly donated his boat(s) during Ohio Sea Grant's State Legislature/Congressional Days on Lake Erie. Spark loved Lake Erie and was a strong advocate of our research, education and outreach programs through his fishing tackle business. When he died, his family and friends created this endowment for students attending Stone Laboratory.

John H. Dunlap, Jr. Fund for Education, Outreach and Development at Stone Laboratory. With gifts from Shirley Dunlap Bowser, OSU, '56 Education, and Cliff Bowser of Williamsport, OH, the Kellogg Foundation, and Friends of Stone Laboratory to honor her father. Born on May 9, 1905 in Williamsport, Ohio, John (Jack) H. Dunlap, Jr., OSU, '28 Arts and Sciences, was a farmer, conservationist, educator, and an ardent supporter of The Ohio State University as a student leader and an active volunteer. He served as director of the university's research foundation, as a trustee from 1968 until 1977, and as chairman of the board during 1975-76. Mr. Dunlap was a seventh generation farmer and nationally recognized agricultural leader. As President of The Dunlap Company, a contracting company that specialized in soil conservation, he built over 100 lakes, ponds, levees, and terraces that supported his view of utilizing farming techniques that were beneficial to the land. The annual income shall be used to support education, outreach and development programs at Stone Laboratory that will ultimately improve the Lake Erie ecosystem and enhance economic development.

Capital Improvements and Equipment

\$2,300,000	New sewer and water system for Stone Laboratory—Committed 2001, planning completed in 2002, construction planned for 2004
348,000	Equipment and Facilities Improvements for Stone Laboratory—Senator

	DeWine and NOAA—Funding arrived 2002 and majority was spent in 2003
<u>63,400</u>	Special equipment allocation from University Office of Research—2003
\$2,711,400	Total 2002-04

Scholarships at Stone Laboratory

\$ 17,736	49 Scholarships in 2002
<u>17,264</u>	41 Scholarships in 2003
\$ 35,000	Total 2002-03

These figures do not include contributions to the FOSL general operating account, the Director's Discretionary Fund, or any of the 3 earnings accounts used by the program for publications, Stone Laboratory workshops, and CLEAR/Sea Grant.

Appendix B

Institutions Involved

Table B-1: Institutions Involved 2002-2003

Table B-2: Home Institution of College Students 1986-2003

**Table B-3: Home Institutions of Concurrent Enrollment
(High School Students) 1990-2003**

APPENDIX B

TABLE B-1

INSTITUTIONS INVOLVED—2002-2003

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
Heidelberg College
Kent State University
Miami University
Ohio State University
Ohio Division of Geological Survey
University of Akron
University of Cincinnati
University of Windsor
Wright State University

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—2002-2003

American Museum of Natural History, NY
Baldwin Wallace College
Bowling Green State University
Heidelberg College
International Joint Commission
Miami University
Ohio State University
Otterbein College
University of Michigan
US Geological Survey
Utica College of Syracuse University
Wittenberg University

Conducting Research at our Lake Erie Laboratory, Stone Laboratory—2003

Cornell University
Heidelberg College
Miami University
Mount Union College
NOAA
Northern Illinois University
Ohio Division of Wildlife
Ohio EPA
Ohio State University
Ohio University
Penn State University
University of Mississippi
USDA
Wittenberg University
Wright State University

TABLE B-2: Home Institutions of College-Level Students 1986-2003

YEAR	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08
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					
INS/STATE																							
Ashland Univ					1				2	1	1			1	1	2							
Baldwin-Wallace College		2			1		1		1		1					2	1	1					
Bluffton College					1																		
*Bowling Green State Univ		2	1		2	1	2	3	2	2	4	1	3	6	4	12	3	21					
Capital Univ							1										1	1					
Case Western Reserve Univ				1			1		1														
Cedarville College							1																
*Cincinnati State Tech&Comm Coll													1	1									
*Cleveland State Univ				1			2		2				1	2	1								
College of Mount St. Joseph										1													
College of Wooster	1			1										1									
Columbus Coll Art & Design							1																
*Columbus State Comm College								1								2	1						
*Cuyahoga Community Coll					1	2	3	1	3		1				2		1						
Defiance College												1											
Denison University																							
Heidelberg College		2					1								1		1	10					
*Hocking Tech College	1								1														
John Carroll Univ		1				1	2	1						1		1							
*Kent State Univ		2			2	3	3		1	1		1	4		2		4	1					
Lake Erie College								1	1														
*Lakeland Community College								1	1														
Malone College																							
*Miami University	3	2	7	1	4	7	6	6	3	10	3	2		1	4	1	1						
Mt. Vernon Nazarene College	1																						
*North Central Tech College						1	1																
Oberlin College						1																	
Ohio Northern Univ									1						2	1	1						
*Ohio State University	33	51	49	58	74	77	89	122	107	101	109	113	113	125	89	109	299	199					
Ohio University		1	1	1	1	1	4	2	2	3			1	1	2	1	1						
Ohio Wesleyan Univ				1	1					1			1										
Ottawa College		1					1				1	1	1	1			2	1					
*Univ of Akron					1			1	1		1	1	1	1		1							
*Univ of Cincinnati	1		1				1	1	1			1			1								
Univ of Dayton																	1						
*Univ of Findlay							1						2		3	1	1						
*Univ of Toledo		2			1	5			2	1				2	2			1					
Urbana Univ							1																
Ursuline College								1															
Wilmington College									1				1										
Wittenberg Univ	1				1			1	1	1		1	2		1	1		2					
*Wright State Univ						1			4	3	1	1	3	2	3	1	1						
Xavier University												1		1									
*Youngstown State Univ	2		1		1	2	2	2	1			1											

Superscript = number of workshop participants NOT included in total

* = state-assisted institution of Ohio

Continued

TABLE 4: Home Institutions of College-Level Students 1986-2003

Continued

YEAR	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08
OUT OF STATE																							
Allegheny College, PA																							
Alma College, MI		1									1				1								
Amherst College, MA									1														
Asbury College, KY												1											
Bail State Univ, IN					1		1									1		1					
Bellarmine College, KY																							
Beloit College, WI									1				1										
Berry College, GA																							
Belhal College, IN																		1					
Cardinal Stritch Univ, WI																							
Carnegie Mellon, PA									1														
Culver Academies, IN						1																	
Cumberland College, KY									2														
Illinois College of Optometry, IL		1																					
Indiana Univ, IN						1	2	1															
Jacksonville Univ, FL		1							1														
James Madison Univ, VA																1							
Loyola Univ of Chicago, IL													1										
Marshall University, WV															1								
Mary Washington College, VA														1									
Middlebury College, IN																1							
Morehead State Univ, KY													1										
Northern Kentucky Univ, KY																	1						
Northern Illinois Univ, IL																		1					
Rollins College, FL							1																
San Francisco State Univ, CA														1									
School of Visual Arts, NY																	1						
Southern Ill Univ, IL						1																	
State Univ of New York, NY									1														
St. Bonaventure Univ, NY														1									
St. Lawrence Univ, NY						1																	
St. Mary's College, IN										1	1												
Trinity International Univ, IL																	1						
Tulane Univ, LA																1							
U. S. Coast Guard Academy, CT															1								
Unity College, ME																	1						
Univ of Florida, FL		1																					
Univ of Illinois, IL																							
Univ of Kentucky, KY									1														
Univ of Maine, ME																							
Univ of Maryland, MD																		1					
Univ of Michigan, MI										1													
Univ of Minnesota- Duluth, MN																							
Univ of Notre Dame, IN							1		2			1				1							
Univ of Rochester, NY																							
U of SC Coastal Carolina Coll, SC								1								1							
Washington Univ, MO																							
West Virginia Univ, WV								1															
Tot # of different out-of-state coll'yr	0	4	0	0	0	4	3	6	9	2	3	3	6	4	4	5	5	4					
Tot # of different in-state coll'yr	8	11	7	6	14	12	22	14	21	11	9	16	13	14	15	13	17	8					
TOTAL # ALL coll'yr	8	15	7	6	14	16	25	20	30	14	12	19	19	18	19	18	22	12					
Cumulative # ALL Colleges	8	21	21	23	27	34	41	49	57	60	61	65	70	74	76	80	88	92					

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2003

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02	03
•Ambridge Area HS, Baden PA	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Anderson HS, Cincinnati	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Anna HS, Anna	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Anthony Wayne HS, Whitehouse	-	1	-	-	-	-	-	-	1	-	-	-	-	-
Arlington HS, Arlington	-	-	-	-	2	-	-	-	-	-	-	-	-	-
Ashland HS, Ashland	-	-	-	-	-	-	2	-	1	3	6	-	3	-
Avon HS, Avon	-	-	-	-	-	-	-	-	2	-	-	-	-	-
Avon Lake HS, Avon Lake	-	1	1	1	-	2	-	-	-	-	1	-	-	-
Badger HS, Kinsman	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Barnesville HS, Barnesville	-	-	-	-	-	-	-	1	-	-	-	-	-	-
•Bartlett HS, Anchorage AK	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Bath HS, Lima	-	-	1	-	-	-	-	-	-	-	-	1	-	-
Bay HS, Bay Village	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Beaumont School HS, Cleveland Hts	-	1	2	1	-	1	-	-	1	-	1	-	-	-
Beavercreek HS, Beavercreek	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Beechcroft HS, Columbus	-	1	1	1	2	-	-	-	-	-	1	2	1	1
Bellefontaine HS, Bellefontaine	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Bellevue HS, Bellevue	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Benjamin Logan HS, Bellefontaine	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Berea HS, Berea	-	1	-	-	-	-	-	-	-	1	1	-	1	-
Bethel HS, Tipp City	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Bexley HS, Bexley	-	-	1	-	2	-	-	2	-	-	-	-	-	-
Big Walnut HS, Sunbury	-	-	-	1	1	-	1	1	2	1	1	-	-	2
Bishop Ready HS, Columbus	-	-	-	1	2	1	-	1	1	1	-	-	-	-
Bishop Rosecrans HS, Zanesville	1	-	-	1	1	-	-	-	-	-	-	-	-	-
Bishop Watterson HS, Columbus	-	-	-	-	-	-	-	-	1	-	1	1	2	2
Black River HS, Sullivan	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Bloom-Carroll HS, Carroll	1	1	-	-	-	-	-	-	-	-	-	-	1	-
Brecksville-Broadview Hts HS, Broadview Hts	-	1	-	-	-	-	-	-	-	-	-	-	1	-
Briggs HS, Columbus	-	-	-	-	-	-	-	1	1	-	3	-	2	1
Brookhaven HS, Columbus	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Brookside HS, Sheffield	1	-	-	-	-	-	-	2	-	-	-	1	-	-
Bryan HS, Bryan	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Buckeye HS, Medina	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Buckeye Local HS, Rayland	-	-	-	1	1	-	-	-	-	-	-	-	-	-
Buckeye Valley HS, Delaware	-	-	-	-	-	-	2	-	-	2	1	-	1	-
Bucyrus HS, Bucyrus	-	1	-	-	-	-	-	-	-	2	-	-	2	1
Cahs 2001 HS (Cols Acad HS2001), Cols	-	-	-	-	-	-	-	-	3	2	-	-	-	-
Calvin M. Woodward HS, Toledo	-	-	-	-	-	-	-	-	1	-	-	-	-	2
Celina HS, Celina	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Centennial HS, Columbus	-	-	-	1	-	1	-	-	-	-	1	1	-	2
Centerville HS, Centerville	-	-	-	-	-	-	1	-	1	-	-	-	-	-
Central Catholic HS, Toledo	-	-	-	-	-	-	-	1	1	-	-	-	-	1

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2003

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02	03
Chagrin Falls HS, Chagrin Falls	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Chaminade-Julienne HS, Dayton	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Chardon HS, Chardon	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Cincinnati Hills Christian Aca, Cinc.	-	-	-	-	-	-	-	-	2	-	-	-	-	-
Circleville HS, Circleville	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Clear Fork HS, Bellville	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Cleveland Heights HS, Cleveland Hts	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Cleveland School of the Arts, Cleveland	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Col Crawford HS, North Robinson	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Col White HS, Dayton	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Columbian HS, Tiffin	-	-	-	1	1	-	-	-	-	-	-	-	-	-
Columbiana HS, Columbiana	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Columbus Academy HS, Gahanna	-	-	-	-	-	-	-	1	-	-	1	-	1	-
Columbus Alternative HS, Columbus	-	-	1	2	-	1	9	2	1	-	1	-	-	3
Columbus Grove HS, Columbus Grove	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Columbus School for Girls, Columbus	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Copley HS, Copley	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Coshocton HS, Coshocton	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Crestview HS, Columbiana	-	-	-	-	-	-	-	-	2	1	-	-	-	-
Crestwood HS, Mantua	-	-	1	-	1	1	-	-	-	-	-	-	1	-
Crooksville HS, Crooksville	-	-	-	-	1	1	1	-	-	-	-	-	-	-
Danbury HS, Lakeside	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Dayton Christian HS, Dayton	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Defiance HS, Defiance	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Dublin Coffman HS, Dublin	-	-	1	-	1	-	-	-	-	-	1	-	-	1
Dublin Scioto HS, Dublin	-	-	-	-	3	1	3	1	1	-	1	-	-	-
East HS, Columbus	-	-	-	-	-	1	-	-	-	-	-	-	-	-
East Liverpool HS, East Liverpool	-	1	-	-	-	-	-	-	-	-	-	-	-	-
East Technical HS, Cleveland	-	-	-	-	-	-	-	-	-	1	1	-	-	-
Eastmoor HS, Columbus	-	-	-	-	-	-	-	-	2	-	2	1	2	-
Eaton HS, Eaton	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Elgin HS, Marion	-	-	-	-	1	-	-	-	-	-	1	-	-	-
Elida HS, Elida	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Elyria HS, Elyria	-	-	-	1	1	1	4	1	2	1	2	3	1	-
Elyria Catholic HS, Elyria	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Elyria West HS, Elyria	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Euclid HS, Euclid	-	-	1	-	-	-	1	-	-	1	-	-	-	-
Fairbanks HS, Milford Center	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Fairfield Union HS, Lancaster	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Fairland HS, Proctorville	-	-	-	-	-	1	1	-	-	-	-	-	-	-
Fairview HS, Fairview Park	-	1	-	2	-	1	-	2	1	-	-	-	-	-
Fayetteville HS, Fayetteville	-	-	-	-	-	-	-	-	-	-	1	2	1	1
Federal Hocking HS, Stewart	-	-	1	-	1	-	-	-	1	-	-	-	-	-

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2003

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02	03
Findlay HS, Findlay	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Finneytown HS, Cincinnati	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Firelands HS, Oberlin	-	2	1	-	1	-	-	-	-	-	-	-	-	-
Firestone HS, Akron	-	-	1	-	-	-	-	-	1	-	1	-	-	-
Fitch HS, Youngstown	-	1	1	-	-	-	-	-	-	-	-	-	-	-
Fort Hayes Career Cent Voc HS, Columbus	-	-	-	-	-	-	-	-	-	-	1	1	-	-
Fort Hayes Metro Educ Center HS, Cols	-	1	2	5	2	1	1	5	1	-	-	1	1	1
Fort Jennings HS, Fort Jennings	-	-	-	-	1	-	1	-	-	-	-	-	-	-
Franklin Heights HS, Columbus	-	-	-	1	-	-	-	-	-	2	-	-	-	-
Fremont Ross HS, Fremont	-	1	-	-	-	1	-	-	-	-	-	-	-	-
Galion HS, Galion	-	-	-	-	-	1	1	1	-	-	-	-	-	-
Gallia Academy HS, Gallipolis	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Geneva Area HS, Geneva	1	3	-	-	-	-	-	-	1	2	2	1	-	-
Genoa Area HS, Genoa	-	-	2	1	-	-	-	-	-	-	-	-	-	-
Georgetown HS,	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Gibsonburg HS, Gibsonburg	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Gilmour Academy HS, Gates Mills	-	-	1	-	-	-	-	-	-	-	-	-	-	-
GlenOak HS, Canton	-	-	1	1	-	-	-	-	-	-	-	-	-	-
Grandview Heights HS, Columbus	-	-	2	2	-	-	1	3	2	1	2	4	2	-
Granville HS, Granville	-	-	-	-	-	-	1	1	1	2	1	2	1	-
Green HS, Greensburg	-	7	4	-	-	-	-	-	-	-	-	-	-	-
Greenhills HS, Cincinnati	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Greenon HS, Springfield	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Greenville HS, Greenville	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Grove City HS, Grove City	-	-	-	-	-	-	1	1	-	-	-	-	-	1
Hamilton HS, Hamilton	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Hawken HS, Gates Mills	-	1	-	-	-	-	1	-	-	-	-	-	-	-
Highland HS, Medina	-	-	-	-	-	-	-	-	-	1	-	-	-	1
Hilliard Darby HS, Hilliard	-	-	-	-	-	-	-	-	-	1	4	-	1	-
Hilliard Davidson HS beg '97 (Hilliard HS prior)	-	-	-	-	-	1	-	-	-	1	2	-	-	-
Hillsboro HS, Hillsboro	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Holy Name HS, Parma Heights	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Hudson HS, Hudson	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Hughes Center HS, Cincinnati	-	-	-	-	-	-	-	1	-	-	-	-	-	1
Huron HS, Huron	-	-	1	1	-	2	-	-	-	-	-	-	-	-
Indian Hill HS, Cincinnati	1	-	2	-	-	-	-	-	-	-	-	-	-	-
Indian Valley HS, Gnadenhutzen	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Ironton HS, Ironton	-	-	1	-	-	-	-	-	-	-	-	-	-	-
J A Garfield HS, Garrettsville	-	-	1	-	-	-	-	-	-	-	-	-	-	-
James Ford Rhodes HS, Cleveland	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Jewett-Scio Jr-Sr HS, Scio	-	-	-	-	-	-	-	-	1	-	-	-	-	-
John Glenn HS, New Concord	-	-	-	-	-	-	-	1	-	-	-	-	-	-
John Marshall HS, Cleveland	-	-	-	-	-	-	-	2	-	2	1	-	-	-

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2003

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02	03
Kenton HS, Kenton	-	1	-	1	-	-	-	-	-	-	-	-	-	-
Kettering Fairmont HS, Kettering	-	-	-	-	1	-	-	1	-	-	-	-	-	-
•Lake Braddock Secondary Sch, Burke VA	-	-	-	-	-	1	1	-	-	-	-	-	-	-
Lake Ridge Academy HS, North Ridgeville	-	-	-	1	-	-	-	-	-	-	-	-	-	-
•Lakeshore HS, Stevensville MI	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Lakewood HS, Lakewood	-	-	-	-	-	-	-	-	1	1	1	-	1	1
Lakota HS, Kansas	1	-	-	-	-	-	-	-	-	-	1	-	-	-
Ledgemont HS, Thompson	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lehman HS, Sidney	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Leipsic HS, Leipsic	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Lexington HS, Lexington	-	-	-	-	1	-	-	1	-	-	1	-	-	-
Liberty Union HS, Baltimore	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Licking Valley HS, Newark	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Lima Central Catholic HS, Lima	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Lima HS, Lima	-	-	-	-	-	1	-	1	-	-	-	-	-	-
Lincoln HS, Gahanna	1	1	-	2	-	-	-	-	1	-	-	-	-	-
Lincoln-West HS, Cleveland	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Linden-McKinley HS, Columbus	-	-	-	-	-	-	-	-	1	-	1	-	1	-
London HS, London	-	-	-	-	2	-	-	-	-	2	-	-	-	-
Lorain Catholic HS, Lorain	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Lordstown HS, Warren	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Loudonville HS, Loudonville	-	-	-	-	-	-	-	1	1	-	-	-	-	1
Louisville HS, Louisville	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Loveland HS, Loveland	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Lucas HS, Lucas	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Lutheran West HS, Rocky River	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Lynchburg-Clay HS, Lynchburg	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Madeira HS, Cincinnati	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Madison HS, Madison	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Madison HS, Mansfield	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Madison-Plains HS, London	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Magnificat HS, Rocky River	-	2	5	-	2	-	1	-	-	-	1	-	1	-
Mansfield HS, Mansfield	-	-	2	-	1	-	-	-	2	-	-	-	-	-
Maple Heights Senior HS, Maple Heights	-	1	1	5	-	-	-	-	-	-	-	-	-	-
Mapleton HS, Ashland	-	-	-	-	-	-	-	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
Marlington HS, Alliance	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Marysville HS, Marysville	1	-	1	-	-	-	1	-	-	-	-	-	-	1
Maumee HS, Maumee	-	-	-	-	-	1	-	1	-	-	-	-	-	-

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2003

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02	03
Maumee Val Country Day HS, Toledo	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Mayfield HS, Mayfield	-	1	-	-	-	-	-	-	-	1	-	-	-	-
McAuley HS, Cincinnati	-	-	-	1	1	-	-	-	-	-	-	-	-	-
Meadowdale HS, Dayton	-	-	-	1	1	-	-	-	-	-	-	1	-	1
Medina HS, Medina	-	-	-	1	1	-	-	-	-	-	1	-	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	-
Monroe HS, Monroe	-	-	-	-	-	-	-	-	-	-	-	-	6	-
Monroeville HS, Monroeville	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-
North HS, Akron	-	-	-	-	-	-	-	-	-	-	-	-	-	1
North Olmsted HS, North Olmstead	-	-	2	2	-	-	-	-	-	-	-	1	-	-
North Ridgeville HS, N Ridgeville	-	-	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	-	-	-	-	-
Notre Dame Academy HS, Toledo	-	-	-	-	-	-	-	-	1	-	1	1	-	-
Oak Harbor HS, Oak Harbor	-	1	-	-	-	-	-	-	1	-	-	-	1	-
Oak Hills HS, Cincinnati	-	-	1	-	-	-	-	-	-	-	1	-	-	-
Olentangy HS, Lewis Center	-	-	-	-	-	-	1	-	-	1	-	-	1	-
Olmsted Falls HS, Olmsted Falls	-	-	1	-	-	-	1	-	-	-	-	-	-	-
Olney Friends HS, Barnesville	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Ontario HS, Mansfield	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Ottawa-Glandorf, Ottawa	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Our Lady of the Elms HS, Akron	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Padua Franciscan HS, Parma	-	-	-	-	-	2	-	-	-	-	-	1	-	-
Parma HS, Parma	-	-	2	2	-	-	-	-	-	1	-	-	-	-

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2003

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02	03
Stebbins HS, Dayton	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Streetsboro HS, Streetsboro	-	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	-
Tinora HS, Defiance	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Tippecanoe HS, Tipp City	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Toronto HS, Toronto	-	-	-	-	-	-	1	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	-	-	2	1	4	2
Upper Sandusky HS, Upper Sandusky	-	-	-	-	-	-	-	1	1	-	-	-	-	-
Urbana HS, Urbana	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ursuline Academy HS, Cincinnati	-	-	-	-	-	-	-	-	-	1	1	1	-	-
Valley Forge HS, Parma Heights	-	-	1	1	2	-	-	-	-	-	-	-	-	-
Valley View HS, Germantown	-	-	-	-	-	-	-	-	-	-	1	1	-	-
•Vanguard HS, Ocala FL	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Vermilion HS, Vermilion	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Vinton County HS, McArthur	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Wadsworth HS, Wadsworth	-	-	-	-	-	-	-	-	-	-	-	1	-	-
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
West Holmes HS, Millersburg	-	2	-	-	-	-	-	-	-	-	-	-	-	-
West Liberty-Salem Jr/Sr HS, West Liberty	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Westerville-North HS, Westerville	1	-	1	1	2	2	-	-	-	-	1	-	-	-
Westerville-South HS, Westerville	-	-	-	-	1	1	-	2	-	-	-	-	1	2

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2003

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02	03
Westlake HS, Westlake	-	-	-	2	-	-	-	1	-	1	-	1	-	-
Westland HS, Galloway	-	1	-	-	-	-	-	-	-	-	-	1	-	-
Whetstone HS, Columbus	-	-	-	1	-	-	1	6	3	1	1	3	-	-
Wm Fisher Catholic HS, Lancaster	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Wm Henry Harrison HS, Harrison	1	1	1	1	1	1	-	-	-	2	-	-	-	-
Wm Mason HS, Mason	-	-	-	-	-	-	-	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
Cumulative # of All High Schools	19	61	101	140	163	179	198	224	248	262	278	289	302	312
Cumulative # of Out-of-State Schools	-	-	2	3	5	-	6	7	-	8	-	9	-	-

• = Out-of-State

1 = 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 1-1-02 to 12-31-03**

**Table C-2: Ohio Sea Grant Development Fund Projects
Initiated from 1-1-02 to 12-31-03**

**Table C-3: Education Projects and Accomplishments,
2003**

Publications from Projects
31 in 2002
33 in 2003

Presentations from Projects
86 in 2002
73 in 2003

Appendix C

Table C-1

Ohio Sea Grant Funded Projects Initiated from 1-1-02 to 12-31-03*

(* Does not include continuing communications, extension, and management projects)

Project Number	Project Title	Initiation	Principal Investigator
<u>R/EM-22</u>		3/1/2002	Virginie Bouchard, OSU
	Origin and fate of the organic matter exchanged between coastal wetland and the Great Lakes		
<u>A/EP-5</u>		3/1/2002	Frank Lichtkoppler, OSU
	Ohio: Regional Fisheries Extension		
<u>E/TER-2</u>		3/1/2002	Rosanne Fortner, OSU
	Expanding delivery modes for education about Great Lakes Systems		
<u>R/PS-28</u>		3/1/2002	Robert Findlay, Miami U.
	Role of Detritivores in PCB Trophodynamics in Western Basin of Lake Erie		
<u>R/ME-28</u>		3/1/2002	Timothy Haab, OSU
	Estimating the Spatial and Temporal Benefits of Recreational Boating and Angling in the Lake Erie Basin		
<u>R/BT-7</u>		3/1/2002	Richard Sayre, OSU
	A Combinatorial Approach to Vaccine Development for Fish		
<u>R/ES-7</u>		3/1/2002	Diane Foster, OSU
	Examining the Effects of Lake Water Level Variations on Sediment Resuspension		
<u>R/ER-60</u>		3/1/2002	Robert Heath, Kent State
	Importance of the Microbial Food Web in C- Transfers Through the Base of the Food Web in Great Lakes Plankton Communities		
<u>A/EP-4</u>		3/1/2002	Frank Lichtkoppler, OSU
	Ohio Sea Grant Extension Program: Community Economic Development		
<u>A/EP-6</u>		7/1/2002	Frank Lichtkoppler, OSU
	Ohio's Participation in Great Lakes Fisheries Leadership Institute		
<u>M/P-10</u>		7/1/2002	Jeffrey Reutter, OSU
	F. T. STONE LABORATORY: A Proposal to Enhance Facilities and Equipment		
<u>R/CE-8</u>		7/1/2002	C. Shum, OSU
	Application Of Gfo-1 Radar Altimeter Data To Global Change Studies		
<u>R/MB-2</u>		9/1/2002	Bi-Min Newby, U. Akron
	Sea Grant Technology: Assessment of Antifouling Mechanisms of Non-toxic Natural Product Antifoulant Incorporated Silicone Coatings		
<u>E/I-16</u>		2/1/2003	Jeffrey Reutter, OSU
	Sea Grant Federal Fellows Program - Martinez		
<u>R/PS-29</u>		3/1/2003	Yu-Ping Chin, OSU
	Photodegradation of Agricultural Herbicides in Lake Erie Coastal Wetlands		
<u>A/NIS-6</u>		3/1/2003	Karen Ricker, OSU

Report on Sea Grant-Supported Nonindigenous Species Projects

<u>R/PS-30</u>	3/1/2003	Linda Weavers, OSU
Sonochemical Desorption of Contaminant Mixtures from Sediment		
<u>R/PS-31</u>	3/1/2003	Harold Walker, OSU
Advanced Treatment Processes for the Removal of Cyanobacterial Toxins from Drinking Water		
<u>R/EM-23</u>	3/1/2003	Jay Martin, OSU
Developing a spatial watershed model to predict the effects of watershed policies on coastal water quality and habitat change		
<u>R/BT-8</u>	6/1/2003	Richard Sayre, OSU
Development of Fluorescent Biosensors for In Situ Trace-Metal Quantification and Biomonitoring		
<u>A/EP-7</u>	6/1/2003	Frank Lichtkoppler, OSU
A National ANS Outreach Campaign for the Aquarium Industry and Hobbyists Consumers: A Collaborative Effort Involving the Pet Industry Joint Advisory Council, U.S. Fish and Wildlife Service and Great Lakes Sea Grant Network		
<u>M/P-9</u>	8/1/2003	Jeffrey Reutter, OSU
Ohio Sea Grant Ship Time 2003-04		

Total Number of Non-Development Fund Projects

22

Table C-2

Ohio Sea Grant Development Fund Projects Initiated from 1-1-02 to 12-31-03

Project Number	Project Title	Initiation	Principal Investigator
<u>R/EM-24-PD</u>	Preliminary Evaluation of a New Technique for Linking Picoplankton Community Structure with Function in Aquatic Environments	1/1/2002	Daniel Oerther, U. Cinn.
<u>R/PS-32-PD</u>	Molecular Assessment of the Potential for in situ PCB Bioremediation	3/1/2002	George Bullerjahn, BGSU
<u>R/ZM-31-PD</u>	Heritability of Heat Tolerance in the Zebra Mussel, <i>Dreissena polymorpha</i> , in the Great Lakes	4/1/2002	David Berg, Miami U.
<u>E/MP-3-PD</u>	Lake Erie Shipwreck Diver Slates	4/1/2002	Karen Ricker, OSU
<u>R/ER-64-PD</u>	Movement Patterns and Hibernation Sites of the Lake Erie water snake	5/1/2002	Richard King, N. Ill. U.
<u>R/A-16-PD</u>	Freshwater Shrimp Production in Southern Ohio	5/1/2002	David Apsley, OSU
<u>R/ME-29-PD</u>	Developing Industrial Heritage: A Case Study in Toledo and Waterville	5/1/2002	Philip Xie, BGSU
<u>R/ER-61-PD</u>	Trophic transfer of heavy metals to top predators: Quantifying the role of non-native species	6/1/2002	Roy Stein, OSU
<u>R/ER-63-PD</u>	Wetland Renovation in East Harbor State Park, Lakeside-Marblehead, OH - Water Control	9/1/2002	Craig Davis, OSU
<u>R/CE-9-PD</u>	Sea Grant Development Fund for the Design and Installation of a GPS-equipped Buoy in Lake Erie for Real-Time Interior Lake Water Level Measurements	10/1/2002	C. Shum, OSU
<u>R/PS-33-PD</u>	Supplemental funding for equipment	3/1/2003	Yu-Ping Chin, OSU
<u>A/P-6-PD</u>	2004 Ohio Sea Grant Calendar	3/1/2003	Karen Ricker, OSU
<u>R/A-17-PD</u>	Impact of latitude on freshwater shrimp culture in Ohio	5/15/2003	Donald McFeeters, OSU
<u>R/ER-65-PD</u>	The fish assemblage of Metzger Marsh: Continued assessment of the effects of restoration	6/1/2003	David Johnson, OSU
<u>R/ER-29-PD</u>	Distribution and abundance of fishes in native and non-native macrophytes in Old Woman Creek estuary	6/1/2003	D. Aday, OSU
<u>R/NIS-8-PD</u>	Habitat preference and behavioral interactions between round goby and yellow perch	6/15/2003	Maria Gonzalez, Miami U

A/EP-8-PD

7/1/2003

Joseph Lucente, OSU

Business Retention and Expansion International Consultant Certification

R/ER-66-PD

7/1/2003

Ken Krieger, Heidelberg

Development of a rapid surveillance method for annual mayfly surveys in Lake Erie

R/ER-68-PD

11/1/2003

Lance Williams, OSU

Influence of Landscape Hierarchies on Food Web Structure in a Lower Great Lakes River System

Total Number of Development Fund Projects

19

TABLE C-3

EDUCATION PROJECTS AND ACCOMPLISHMENTS, 2003

Activities listed in this section support Goal III: Education and Human Resources, B. Development of an Environmental and Scientifically Informed Citizenry. They represent a combination of formal and informal education, secondary through graduate school.

1. Projects in addition to and supportive of Ohio Sea Grant efforts

- Lake Erie distance education from F.T. Stone Laboratory.
Sponsor: USEPA Region V. \$21,762; 07/01/2002-09/30/2003
- Evaluation of traditional and electronic instructional media for environmental science learning. Sponsor OARDC: Hatch. \$1500/year, 4 years beginning 10/1/03
- Great Lakes Teacher Education: High Tech/High Touch Learning. New project from Ohio Sea Grant that will succeed the current one in March 2005.

2. Products:

Internet development continued on two projects and expanded into a new one:

- The internet site on decision making about Great Lakes issues was completed and 10 of 14 activities were pilot tested in central Ohio schools. The site at <http://earthsys.ag.ohio-state.edu/decision/> will be used in Lyndsey Manzo's Master's project in 2004.
- Alien Invaders: Teaching and Learning about Exotic Species [<http://earthsys.ag.ohio-state.edu/Alien/>] is an on-line course for educators developed with Sea Grant support from a Network education project. The course was offered in Autumn 2003 for University credit.
- The current project focuses on compilation of an electronic database of nonformal education facilities on the Lake Erie shore. The database will be searchable by region and facility.

3. Graduate Education:

Jennifer Dudley, MS 2003. "Effect of a place-based experiential learning program on sixth graders' attitudes toward science." [Sandusky students at Stone Lab workshops]

Samantha Romanello, a former Knauss Fellow in the Office of the Chief Scientist, NOAA, completed her PhD with research on "*Natural and social scientists' perceptions of uncertainty in discussions of global climate change: A study using sense-making methodology.*"

4. Publications

- Ricker, K. & R.W. Fortner, 2003. Aquatic nuisance species in the news – and in the classroom too! *Twine Line* 25(4): 8. July/August.
- Malinowski, J.E. and R.W. Fortner, 2003. The effect of participation in place-based environmental education programs on student affect toward science: A case study of F.T.

Stone Laboratory's middle school program. *Proceedings of the 32nd Annual Conference of the NAAEE*. Anchorage, AK. In press.

- Fortner, R.W., J.L. Arvai, J.E. Malinowski, and A. Froschauer. Instructional materials for environmental decision making. *Proceedings of the 32nd Annual Conference of the NAAEE*. Anchorage, AK. In press.

Dr. Fortner edited a special issue of *Science Activities* 40(1) based on marine education. In addition to her editorial {"Teaching about the ocean as a system"} the issue included publications from two Sea Grant projects:

- What is the impact of beach debris? [R. Fortner and Dan Jax, from the LAKERS project]
- Ballast blockade: Stopping aquatic immigrants [Sara White, from the current Sea Grant project, available as an interactive lesson at <http://earthsys.ag.ohio-state.edu/decision/>]

2/6/04

**Publications from
Ohio Sea Grant Projects
2002**

Publications from Ohio Sea Grant Projects—2002

Project Number	Initiation	Completion	Publication
<u>E/MP-3-PD</u>	4/1/2002	9/30/2002	2002. Guides to Lake Erie's historic shipwrecks: The Adventure, W. R. Hanna, and F. H. Prince. Columbus, OH: Ohio Sea Grant College Program. Publication OHSU-GS-020. (note: An order form for the guides is available on our web site at: www.sg.ohio-state.edu/pdfs/diveorder.pdf; www.sg.ohio-state.edu/pdfs/di
<u>E/TER-1</u>	3/1/1998	2/29/2000	Fortner, R.W. and J.R. Corney. 2002. Great Lakes educational needs assessment: Teachers' priorities for topics, material & training. Journal of Great Lakes Research 28(1):
<u>R/A-16-PD</u>	5/1/2002	4/30/2003	Hickle, J. 2002. A Freshwater First. Portsmouth Daily Times. Sept. 14. Fisher, L. 2002. Believe it or Not - Shrimp Raised in Athens County. The Athens Insider. Oct. 16. Gallagher, M. 2002. County Sees First Harvest of Shrimp. The Athens Messenger. Bussa, R. 2002. Fit for Feast: Shrimp Now Growing at Cliff's Lake. Portsmouth Community Common. June 30. Tiu, L. and G. Wallat 2002. Freshwater Shrimp Fact Sheet. OSU South Centers Publication, www.piketon.osu.edu/aqua/; www.piketon.osu.edu/aqua/. Tiu, L. and G. Wallat 2002. Freshwater Shrimp Production in Southern Ohio - Frequently Asked Questions. OSU South Centers Publication, www.piketon.osu.edu/aqua/; www.piketon.osu.edu/aqua/. OARDC Report 2002. Hey, Shrimp! Can You Help Us Grow Our Business? Sept./ Oct. 2002, Vol. 13, No. 5. Tiu, L. 2002. Hold the Cocktail Sauce...!. The OSU South Centers Connection. Fall. Hickle, J. 2002. Local Shrimp Farm State's 1st. Portsmouth Daily Times. June. Gullett, A. 2002. Local Shrimp Pond Harvested. Pike County News Watchman. Sept. 4. Kennedy, J.H. 2002. Makin' a Livin' Shrimpin'. The Repository. Nov. 18. 2002. Walnut Grove Farms Shrimp. Portsmouth Community Common, Sept. 4.
<u>R/BT-6</u>	3/1/2000	2/28/2003	Adhiya J, Cai X-H, Sayre RT and Traina S. 2002. Binding of aqueous cadmium by the lyophilized biomass of <i>Chlamydomonas reinhardtii</i>. Colloids and Surfaces A: Physicochemical and Engineering Aspects 210-1-11. Rubinelli P, Siripornadulsil S, Gao-Rubinelli F and Sayre RT. 2002. Cadmium and iron-stress inducible gene expression in the green alga <i>Chlamydomonas reinhardtii</i>: evidence for H43 protein function in iron assimilation. Planta 215: 1-13. Siripornadulsil S, Traina S, Verma DP and Sayre 2002. Molecular mechanisms of

proline-mediated tolerance to toxic heavy metals in transgenic microalgae. *Plant Cell*

R/CE-5

3/1/2000

2/28/2003

Liebsch, G., K. Novotny, R. Dietrich, and C. Shum. 2002. Comparison of multimission altimetric sea-surface heights with tide gauge observations in the Southern Baltic Sea. *Marine Geodesy*, 25, 213-234.

Lin, J., and C. Shum. 2002. Correction of tide gauge measurements to absolute sea level by vertical and motion solutions. OSU report, in progress.

Zhao, C., D. Bilitza, C. Shum, S. Schaer, G. Beutler, and S. Ge. 2002. Evaluation of ionosphere models for radar altimeter applications. *Adv. Space Res.*, Vol. 29, No. 6,

R/EM-22

3/1/2002

2/28/2004

Bouchard, V. 2002. Is there outwelling of organic matter in Great Lakes coastal wetlands?. in preparation.

R/ER-33-PD

9/1/1995

4/30/1997

Berg, D.J., D.W. Garton, H.J. MacIsaac, V.E. Panov, and I.V. Telesh. 2002. Changes in genetic structure of North American *Bythotrephes* populations following invasion from Lake Ladoga, Russia. *Freshwater Biology* 47: 275-282.

R/ER-39

3/1/1997

4/30/2001

Trexel-Kroll, D. and D. Francko. 2002. Changes in the Old Woman Creek Plant community following reduced water levels. *Old Woman Creek Pub. Series*.

R/ER-55

3/1/2000

2/28/2003

Irwin, B.R., G.W. Kim, and D.R. DeVries. 2002. An ecological and management case study of system responses to gizzard shad recovery following a selective poisoning treatment in Walker County Lake, AL 1996-1999. Submitted to *North American Journal of Fisheries Management*. 23 MS pages, 4 tables, and 7 figures.

R/ME-25

3/1/2000

2/28/2002

Carrion, Carmen and Elena G. Irwin. 2002. Using a Spatial Economic Model to Explain Residential Sprawl. In review, *American Journal of Agricultural Economics*.

R/NIS-4-PD

5/1/1997

7/1/2000

Stepien, C.A., C. D. Taylor, and K.A. Dabrowska. 2002. Genetic variability and phylogeographic patterns of a nonindigenous species invasion: A comparison of exotic versus native zebra and quagga mussel populations. *Journal of Evolutionary Biology*. 15:

R/NIS-6-PD

3/1/1999

12/31/1999

Stepien, C.A., C.A. Taylor, and K.A. Dabrowska. 2002. Genetic variability and phylogeographic patterns of a nonindigenous species invasion: A comparison of exotic versus native zebra and quagga mussel populations. *Journal of Evolutionary Biology*. 15:

R/NIS-108-SG

9/1/1997

8/30/1998

Stepien, C.A., C.D. Taylor, and K. A. Dabrowska. 2002. Genetic variability and phylogeographic patterns of a nonindigenous species invasion: A comparison of exotic versus native zebra and quagga mussel populations. *Journal of Evolutionary Biology*. 15:

- R/NP-1** 3/1/1998 5/30/2001
 Li, R., R. Ma, and K. Di. 2002. Digital Tide-coordinated Shoreline. *Marine Geodesy*, Vol. 25, pp. 27-36.
- Li, R., G. Zhou, N.J. Schmidt, C. Fowler and G. Tuell. 2002. Photogrammetric Processing of High-Resolution Airborne and Satellite Linear Array Stereo Images for Mapping Applications. *International Journal of Remote Sensing*, Volume 23, No.20,
- R/PS-22** 9/1/1996 8/31/1998
 Miller P.L., Chin Y.P. 2002. Photoinduced degradation of carbaryl in wetland surface water. *Journal of Agricultural and Food Chemistry*, 50, 6758-6765.
- R/PS-26** 3/1/2000 2/28/2003
 Y. Lu, N. Riyanto, and L. K. Weavers. 2002. Sonolysis of Synthetic Sediment Particles: Particle Characteristics Affecting Particle Dissolution and Size Reduction. *Ultrasonics Sonochemistry*, 2002, 9(4), 181-188.
- R/PS-32-PD** 3/1/2002 2/28/2003
 Hoostal, M., G.S. Bullerjahn and R.M.L. McKay. 2002. Molecular assessment of the potential for in situ bioremediation of PCBs from aquatic sediments. *Hydrobiologia* 469: 59-65.
- R/ZM-9** 9/1/1993 12/1/1997
 Stepien, C.A., C. D. Taylor, and K.A. Dabrowska. 2002. Genetic variability and phylogeographic patterns of a nonindigenous species invasion: A comparison of exotic versus native zebra and quagga mussel populations. *Journal of Evolutionary Biology*

Number of Publications: 31

**Publications from
Ohio Sea Grant Projects
2003**

Publications from Ohio Sea Grant Projects—2003

Project Number	Initiation	Completion	Publication
<u>A/AS-5-PD</u>	7/1/1992	11/30/1992	Heath, R. T. 2003. Zebra and quagga mussel migration to inland lakes and reservoirs: A guide for lake managers. Ohio Sea Grant Fact Sheet FS-58, revised.
<u>A/EP-1</u>	9/1/1978		Lichtkoppler, F. R., and D. Kuehn. 2003. New York's Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network. Blaine, T.W., F. R. Lichtkoppler, and R. Stanbro. 2003. An Assessment of Residents' Willingness to Pay for Green Space and Farmland Preservation Conservation Easements Using the Contingent Valuation Method (CVM). Journal of Extension. 41 (4) (electronic format) Lichtkoppler, F. R., and D. Kuehn. 2003. Illinois-Indiana's Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network. Lichtkoppler, F. R., and D. Kuehn. 2003. Michigan's Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network. Lichtkoppler, F. R., and D. Kuehn. 2003. Minnesota's Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network. Lichtkoppler, F. R., and D. Kuehn. 2003. Ohio's Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network. Lichtkoppler, F. R., and D. Kuehn. 2003. Pennsylvania's Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network. Lichtkoppler, F. R., C. Pistis, and D. Kuehn. 2003. The Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network. Lichtkoppler, F. R., and D. Kuehn. 2003. Wisconsin's Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network.
<u>A/EP-5</u>	3/1/2002	2/28/2003	Lichtkoppler, F. R., C. Pistis, and D. Kuehn. 2003. Illinois-Indiana's Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network. Lichtkoppler, F. R., C. Pistis, and D. Kuehn. 2003. Michigan's Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network. Lichtkoppler, F. R., C. Pistis, and D. Kuehn. 2003. Minnesota's Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network. Lichtkoppler, F. R., C. Pistis, and D. Kuehn. 2003. New York's Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network. Lichtkoppler, F. R., C. Pistis, and D. Kuehn. 2003. Ohio's Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network. Lichtkoppler, F. R., C. Pistis, and D. Kuehn. 2003. Pennsylvania's Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network.

Lichtkoppler, F. R., C. Pistis, and D. Kuehn. 2003. The Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network.

Lichtkoppler, F. R., C. Pistis, and D. Kuehn. 2003. Wisconsin's Great Lakes Charter Fishing Industry in 2002. (In press.) Great Lakes Sea Grant Network.

E/TER-2

3/1/2002 2/28/2005

Rosanne W. Fortner, Joe L. Arvai, J.E. Malinowski, and A. Froschauer. 2003. Instructional materials for environmental decision making. Proceedings of the 32nd NAAEE Annual Conference. [on CD-ROM]

Fortner, R.W., Arvai, J., Dudley, J.E. and Froschauer, A. 2003. Instructional materials for environmental decision making. Proceedings of the 32nd Annual Conference of the North American Association for Environmental Education. In press.

Dudley, Jennifer and Fortner, R.W. 2003. The effect of participation in place-based environmental education programs on student affect toward science: A case study of F.T. Stone Laboratory's middle school program. Proceedings of the 32nd Annual Conference of the North American Association for Environmental Education. In press.

M/P-1

9/1/1978

Reutter, J.M. 2003. 2002 Program highlights. The Ohio State University. Ohio Sea Grant Program. Twine Line 25(1): 1-5.

Reutter, J.M. 2003. We need help!! The Ohio State University. Ohio Sea Grant Program. Twine Line 25(1): 1-5.

R/CE-5

3/1/2000 2/28/2003

Cheng, K., C. Kuo, et al. 2003. Linking of water level gauge and shoreline datum with ITRF using GPS buoy and satellite altimetry in the Great Lakes. In preparation.

Kuo, C., K. Cheng, et al. 2003. On the computation of tidal datum and its transform to the ITRF using Great Lakes water level gauges and satellite altimetry. In preparation.

Kuo, C., C. Shum, A. Braun, and J. Mitrovica. 2003. Vertical crustal motion inferred by satellite altimetry and tide gauge data in Fennoscandia. Geophys. Res. Lett. Submitted.

Shum, C., C. Kuo, A. Braun, and A. Trupin. 2003. Vertical motion inferred by satellite altimetry and tide gauges. PARCA Meeting, Byrd Polar Research Center, Ohio State Univ., January 14-15.

R/ER-37

9/1/1996 8/31/1998

Heath, R. T. 2003. Microbial turnover of organic phosphorus in aquatic systems. Chapter 9 IN: "Organic Phosphorus in the Environment" Ed. Turner, B., in review.

R/ER-39

3/1/1997 4/30/2001

Whyte, R. and D. Francko. 2003. The aquatic vegetation of the Old Woman Creek National Estuarine Research Reserve (Huron, OH): A Lake Erie coastal wetland. Mich.

R/ER-40-PD

9/1/1996 8/31/1998

Heath, R. T. 2003. Zebra and quagga mussel migration to inland lakes and reservoirs: A guide for lake managers. Ohio Sea Grant Fact Sheet FS-58, revised.

- R/ER-46-PD** 3/1/1997 8/31/1999
Whyte, R. and D. Francko. 2003. The aquatic vegetation of the Old Woman Creek National Estuarine Research Reserve (Huron, OH): A Lake Erie coastal wetland. Mich.
- R/LR-4** 3/1/1998 8/31/2003
Carol A. Stepien, Clifford D. Taylor, and Donald Einhouse 2003. An analysis of Genetic risk to a native spawning stock of walleye Sander vitreus due to stocking in Cattaraugus Creek. 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.(In Press).
- R/MB-2** 9/1/2002 8/31/2004
Abdulhadi A Al-Juhni, Karunakar Reddy Jaggari, Bi-min Zhang Newby 2003. Techniques for Incorporating Capsaicin into Silicone to Enhance Antifouling Performance of Silicone Coatings. under preparation, to be submitted to Biofouling, December, 2003.

Qing Wei Xu, Carlos A. Barrios, Teresa Cutright, Bi-min Zhang Newby 2003. Toxicity Evaluation of Capsaicin and Zosteric Acid and their Potential Applications as Antifoulants. submitted to Chemosphere, October, 2003.
- R/NIS-1** 6/1/1995 5/31/1998
Stepien, C.A., A. M. Ford, A. K. Dillon-Klika, and M. A. Tumeo 2003. Risk analysis and genetic identity of the Eurasian source population for the ruffe (*Gymnocephalus cernuus*) 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. In Press.
- R/NIS-5-PD** 9/1/1997 12/31/1997
Stepien, C.A., A. M. Ford, A. K. Dillon-Klika, and M. A. Tumeo 2003. Risk analysis and genetic identity of the Eurasian source population for the ruffe (*Gymnocephalus cernuus*) 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. In Press.
- R/NIS-6-PD** 3/1/1999 12/31/1999
Stepien, C.A., C.D. Taylor, I.A. Grigorovich, S.V. Shirman, R. Wei, A.V. Koriushin, and K.A. Dabrowska. 2003. DNA and systematic analysis of invasive and native dreissenid mussels: Is *Dreissena bugensis* really *D. rostriformis*? Aquatic Invaders: The Digest of the National Aquatic Nuisance Species Clearinghouse. 14(2): 1
- R/NIS-108-SG** 9/1/1997 8/30/1998
Stepien, C.A., C.D. Taylor, I.A. Grigorovich, S.V. Shirman, R. Wei, A.V. Koriushin, and K.A. Dabrowska. 2003. DNA and systematic analysis of invasive and native dreissenid mussels: Is *Dreissena bugensis* really *D. rostriformis*?. Aquatic Invaders: The Digest of the National Aquatic Nuisance Species Clearinghouse. 14(2): 1
- R/NIS-109-SG** 9/1/1997 8/31/1998
Stepien, C.A., A. M. Ford, A. K. Dillon-Klika, and M. A. Tumeo 2003. Risk analysis and genetic identity of the Eurasian source population for the ruffe (*Gymnocephalus cernuus*) 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. In Press.

R/NP-1 3/1/1998 5/30/2001

Ma, R., K. Di, and R. Li. 2003. 3-D Shoreline Extraction from IKONOS Satellite Imagery. The 4th Special Issue of Marine Geodesy, Volume 26, No. 1, pp. 107-115, January.

R/PS-22 9/1/1996 8/31/1998

Miller P. Chin Y.P. 2003. Photosensitized degradation of alachlor by wetland dissolved organic matter. In preparation for Environ. Sci. Technol.

R/PS-32-PD 3/1/2002 2/28/2003

Boyanapalli, K., R.M.L. McKay and G.S. Bullerjahn. 2003. Genetic profiling of bphA1 sequences as an indicator for PCB degradation in contaminated sediments. Appl. Env. Microbiol. in preparation.

R/ZM-6 8/1/1991 7/31/1993

Heath, R. T. 2003. Zebra and quagga mussel migration to inland lakes and reservoirs: A guide for lake managers. Ohio Sea Grant Fact Sheet FS-58, revised.

R/ZM-7 9/1/1992 8/31/1994

Heath, R. T. 2003. Zebra and quagga mussel migration to inland lakes and reservoirs: A guide for lake managers. Ohio Sea Grant Fact Sheet FS-58, revised.

R/ZM-9 9/1/1993 12/1/1997

Stepien, C.A., C.D. Taylor, I.A. Grigorovich, S.V. Shirman, R. Wei, A.V. Koriushin, and K.A. Dabrowska. 2003. DNA and systematic analysis of invasive and native dreissenid mussels: Is *Dreissena bugensis* really *D. rostriformis*?. Aquatic Invaders: The Digest of the National Aquatic Nuisance Species Clearinghouse. 14(2): 1

R/ZM-25 9/1/1994 8/31/1996

Heath, R. T. 2003. Zebra and quagga mussel migration to inland lakes and reservoirs: A guide for lake managers. Ohio Sea Grant Fact Sheet FS-58, revised.

Shoup, D. E., R. E. Carlson, and R. T. Heath, and M. W. Kershner. 2003. Comparison of the species composition, catch rate, and length distribution of the catch from the trap nets with three different mesh and throat size combinations. North Am. J. Fisheries Mgmt. 23:

Shoup, D. E., R. E. Carlson, and R. T. Heath. 2003. Effects of predation risk and foraging return on the diel use of vegetated habitat by two size-classes of bluegills. Trans. Am Fisheries Soc. 132: 590-597.

R/ZM-31-PD 4/1/2002 3/31/2003

Elderkin, C. L., J. A. Stoeckel, D. J. Berg, and P. L. Klerks 2003. Heritability of heat tolerance in zebra mussel veligers. (submitted to Journal of Great Lakes Research in July 2003; 22 pages, 3 figures and tables).

Number of Publications:

33

**Presentations from
Ohio Sea Grant Projects
2002**

Presentations from Ohio Sea Grant Projects—2002

Project Number	Initiation	Completion	Presentation
<u>A/EP-4</u>	3/1/2002	2/28/2006	Lacy, D. and Lucente, J 2002. Local Government Leadership Academy, A Model Curriculum. Association of Leadership Educator's International Conference. Lexington, Kentucky, July 11-13. Lacy, D. and Lucente, J 2002. The Greater Toledo Area Local Government Leadership Academy. Ohio State University Extension's County Commissioner's Days. Perrysburg, Ohio, August 20-21. Lacy, D. and Lucente, J 2002. The Ohio Local Government Leadership Academy: Strengthening Communities, Enhancing Economic Development's Role. Community Resources Economic Development National Conference. Orlando, Florida, February 25-27.
<u>E/NIS-3</u>	10/1/2001	9/30/2003	Helen Domske, Robin Goettel, Pam Blanchard. 2002. ESCAPE from Exotics. NMEA.
<u>M/P-1</u>	9/1/1978		Reutter, J.M. 2002. Annual Program Review. Stone Laboratory Open House and Annual Meeting for the Friends of Stone Laboratory. Put-in-Bay, Ohio. 14 September. Reutter, J.M. 2002. Aquatic Nuisance Species. Annual Meeting of the National Association of State Boating Law Administrators. Cleveland, Ohio. 10 September. Reutter, J.M. 2002. Current Issues Facing Lake Erie and the Great Lakes. OSU Microbiology Course. Dr. Olli Tuovinen. 3 December. Reutter, J.M. 2002. Development of a Clean Marinas Program for Ohio. Annual Meeting of the Lake Erie Marine Trades Association. Huron, Ohio. 3 December. Reutter, J.M. 2002. Great Lakes GOOS: User Input. Meeting of US Global Ocean Observing System Steering Committee. NOAA, GLERL. Ann Arbor, Michigan. 10 October. Reutter, J.M. 2002. Great Lakes Sea Grant Research and Research Needs. 30th Annual Meeting of the Great Lakes Sport Fishing Council. Dundee, Michigan. 9 February. Reutter, J.M. 2002. Invasive Species: Their Impact and Our Response. US Commission on Ocean Policy. John G. Shedd Aquarium. Phelps Auditorium. Chicago, Ill. 25 September. Reutter, J.M. 2002. Lake Erie Coastal Research Issues and Needs. US Army Corps of Engineers. Cleveland, Ohio. 11 December. Reutter, J.M. 2002. Stone Laboratory, Ohio Sea Grant, Ohio State University, and Lake Erie. Annual Meeting of the International Association of Amusement Parks and Attractions. Stone Laboratory. Put-in-Bay, Ohio. 13 September. Reutter, J.M. 2002. Stone Laboratory, Ohio Sea Grant, Ohio State University, and Lake Erie. Lakeside Women's Club. Lakeside, Ohio. 9 July. Reutter, J.M. 2002. The Dead Zone in Lake Erie: Past, Present and Future. United States Senate Committee on Environment and Public Works. Cleveland,

Ohio. 5 August.

Reutter, J.M. 2002. The Lake Erie Ecosystem. Annual Meeting of the US Army Corps of Engineers and Directors of State Departments of Natural Resources. Put-in-Bay, Ohio. 1 October.

Reutter, J.M. 2002. The Ohio State University and Lake Erie. Ohio State University Alumni Board Meeting. Longaberger Alumni House. 19 April.

Reutter, J.M. 2002. Tour of Lake Erie Shoreline, Put-in-Bay, and Stone Laboratory. Annual Meeting of the Great Lakes Commission. Cleveland, Ohio. 14 October.

M/P-2

9/1/1980

Jensen, D.A., Ricker, K.T., Webb, S.K., Proctor, B., and Hauser, M.W. 2002. Measuring Effectiveness of ANS Boater Awareness in Five States Using a Model Survey. Presented at the Eleventh Annual International Conference on Aquatic Invasive Species, Feb. 11 - March 1, 2002. Alexandria, VA.

R/A-16-PD

5/1/2002

4/30/2003

Tiu, L.G. 2002. Freshwater Shrimp Production. Farm Science Review. London, OH. September.

Redden, A. 2002. Freshwater Shrimp Production Overview. Aquaculture Field Night, August 17.

Tiu, L.G. 2002. Production of Freshwater Shrimp in Ohio. Country Living Field Day. Augusta, OH September.

Tiu, L.G. 2002. Production of Freshwater Shrimp in Ohio. Ohio Farm Bureau "Land and Living Agriculture" exhibit. Ohio State Fair. Columbus, OH. August.

R/BT-6

3/1/2000

2/28/2003

Sayre, R.T. 2002. Applications of microalgae for bioremediation and delivery of biologically active molecules to animals. Department of Biochemistry, University of

Surasak Siripornadulsil, Samuel Traina and Richard Sayre. 2002. Characteristics of Chlamydomonas cells expressing gene encoding synthetic heavy metal binding proteins. 10th International Conference on the Cell and Molecular Biology of Chlamydomonas, Vancouver, Canada, June 11-16.

Sayre, R.T. 2002. Chlamydomonas and the Environment. Session convener and plenary talk, 10th International Conference on the Cell and Molecular Biology of Chlamydomonas, Vancouver, Canada, June 11-16.

Jaime Ewalt and Richard Sayre. 2002. Creation of a heavy metal "chameleon" biosensor protein. 10th International Conference on the Cell and Molecular Biology of Chlamydomonas, Vancouver, Canada, June 11-16.

Sayre RT and Siritunga D. 2002. Generation of acyanogenic cassava. Chair, Mini-symposium on Metabolic Engineering, Plenary Lecture. Annual Meeting, Am. Soc. Plant Biologists, Denver, CO, August 5.

Ewalt J and Sayre RT. 2002. Heavy metal biosensing in Chlamydomonas. Midwest meeting of the Am. Soc. Plant Biol., Miami Univ., Oxford, OH., March 15-16.

Surasak Siripornadulsil, Samuel Traina, Desh Pal S. Verma and Richard Sayre. 2002. Proline action on heavy metal detoxification in microalgae. 10th International Conference

on the Cell and Molecular Biology of Chlamydomonas, Vancouver, Canada, June 11-16.

Siripornadulsil S Traina S, Verma DPS and Sayre RT. 2002. Proline action on heavy metal detoxification in microalgae. Midwest meeting of the Am. Soc. Plant Biol., Miami Univ., Oxford, OH., March 15-16.

Sayre, R.T. 2002. The role of proline in heavy metal detoxification. Gordon Research Conference on Salt and Water Stress in Plants, Queen's College, Oxford, UK, July 14-19.

R/CE-5

3/1/2000

2/28/2003

Cheng, K., S. Calmant and C. Shum 2002. Absolute calibration of satellite radar altimeters in Lake Erie, and Vanuatu, South Pacific. 27th General Assembly of the EGS in Nice, France, April 21-26.

Kuo, C., C. Shum, and Y. Yi 2002. Characterization of global sea level rise observed by satellite altimetry. International Workshop on Satellite altimetry for Geodesy, Lecture 1: Principles of satellite altimetry and application to sea level change studies, September 8-13, Wuhan, China.

Braun, A., C. Kuo, C. Shum, and J. Mitrovica. 2002. Determination of vertical crustal motion using satellite altimetry. Workshop on crustal motion and sea level change, Toulouse, France, September 17-19.

Calmant, S., C. Shum, K. Cheng, W. Scherer and M. Bevis. 2002. Earthquake-related offsets in sea levels recorded by Tide Gauges: 2 recent examples in Vanuatu, South West Pacific. Workshop on crustal motion and sea level change, Toulouse, France, September

Shum, C., C. Kuo, and J. Mitrovica. 2002. Glacial isostatic adjustment in the Great Lakes region inferred by tide gauges and satellite altimetry. Spring AGU Meeting, Washington D.C., May 28-31.

Kuo, C., C. Shum, and A. Braun. 2002. Glacial Isostatic adjustment inferred by tide gages and satellite altimetry. Weikko A. Heiskanen Symposium In Geodesy: Celebrating 50 years in Geodetic Science at the Ohio State University, Ohio State University, Columbus, Ohio, 1-5 October.

Snay, R., M. Chin, D. Coner, T. Soler, C. Zervas, J. Oyler, M. Craymer, S. Gutman, C. Shum, K. Cheng, and C. Kuo. 2002. Great Lakes continuous GPS (CGPS) network for geodynamics, meteorology and safe navigation. Weikko A. Heiskanen Symposium In Geodesy: Celebrating 50 years in Geodetic Science at the Ohio State University, Ohio State University, Columbus, Ohio, 1-5 October.

Yi, Y., and C. Shum. 2002. Great lakes gravity field improvement using satellite altimetry. WEIKKO A. EISKANEN SYMPOSIUM IN GEODESY, The Ohio State University, Columbus, Ohio, USA, October 1-5.

Kuo, C., Y. Yi, K. Cheng, and C. Shum 2002. Great Lakes monitoring using space geodetic technologies. Weikko A. Heiskanen Symposium In Geodesy: Celebrating 50 years in Geodetic Science at the Ohio State University, Ohio State University, Columbus,

Yi, Y., A. Braun, K. Cheng, C. Shum, and S. Calmant 2002. Initial ENVISAT RA-2 Cal/Val results. ENVISAT RA-MWR CCVT Fourth Plenary Meeting, ESA/ESRIN, Frascati, Italy, 3-4 December.

Zhao, C., C. Shum and Y. Yi 2002. Ionosphere corrections of radar altimeters and calibration results of GFO. Invited, International Workshop on Satellite altimetry for Geodesy, Geophysics and Oceanography: Summer Lecture Series and Scientific

Applications, September 8-13, Wuhan, China.

Shum, C. and C. Zuffada 2002. Potential operational observing system requirements for Great Lakes monitoring. Invited talk, U.S. GOOS Steering Committee Meeting VII, GLERL, Ann Arbor, Michigan, October 9-11.

Cheng, K., C. Shum and S. Calmant. 2002. Radar altimeter absolute calibration using GPS buoy and tide gauges. Weikko A. Heiskanen Symposium In Geodesy: Celebrating 50 years in Geodetic Science at the Ohio State University, Ohio State University, Columbus, Ohio, 1-5 October.

Calmant, S., K. Cheng, C. Shum and D. Martin. 2002. Radar altimeter absolute calibration using GPS buoy and tide gauges. Fall AGU Meeting, San Francisco, December 6-10.

Shum, C., C. Kuo, and A. Braun. 2002. Vertical crustal motion inferred by satellite altimetry and tide gauge. International Symposium in Recent Crustal Deformations in South America and Sounding Areas, Santiago, Chile, 21-25, October.

R/CE-6

3/1/2000 2/28/2002

Chopakatl, S. C., T. C. Lippmann, J. E. Richardson, E. B. Thornton, and R. A. Holman. 2002. A CFD Model for Wave Transformation and Breaking in the Surf Zone. Oral Presentation at the American Geophysical Union Fall Meeting, San Francisco, 7 December 2002 (EOS Trans., 83(47), 715).

R/EM-22

3/1/2002 2/28/2004

Bouchard, V. 2002. Testing the outwelling hypothesis in freshwater coastal wetlands. Society of Wetland Scientist, Lake Placid, NY, USA, June 2-7.

R/EM-23

3/1/2003 2/28/2005

Smith, C., Martin, J.F. 2002. Developing a watershed model to quantify water quality and habitat impacts of land use change. April 29. American Ecological Engineering Society Annual Meeting. Burlington, Vermont. Poster presentation.

R/EM-24-PD

1/1/2002 12/31/2002

Daniel Oerther 2002. Emerging Technology for Characterizing Metabolically Active Degradative Microbial Populations. Superfund Basic Research Program Emerging Technologies for Information Transfer, Tucson, Arizona, November 6.

Daniel Oerther 2002. Ribosome Genesis: A Model for Molecular Biology-Based Respirometry in Activated Sludge. University of Manitoba, Winnipeg, Manitoba,

Daniel Oerther 2002. The Future of Process Monitoring in Environmental Engineering: Molecular Biology, Microelectrodes, and Lab-on-a-Chip. Malcolm Pirnie, Inc., Central Region Headquarters, Columbus, OH, October 22.

R/ER-39

3/1/1997 4/30/2001

Trexel, D. and D. Francko. 2002. Effect of low water level on vegetation communities in the Old Woman Creek National Estuarine Research Reserve, Huron, OH. Annual Meeting, International Assoc. Great Lakes Res., Winnipeg, Alberta, Canada.

R/ER-55

3/1/2000 2/28/2003

Kim, G. W., M.R. Gearhiser, E.A. Marschall, C. Knight, S.W. Fisher, and R.A. Stein 2002. Comparing laboratory and field estimates of predation by smallmouth bass on round goby, emerald shiner, and crayfish. 132nd Annual Meeting of the American Fisheries Soc.,

Baltimore, MD, 18-22 August.

Kim, G. W., A. N. Patel, T. K. Menker, J. M. Dettmers, R. A. Wright, D. R. DeVries, and R. A. Stein. 2002. Density and sediment detritus influence gizzard shad growth and survival. 2002 Ohio Division of Wildlife Annual Research Review Meeting, Columbus,

Kim, G. W., A.N. Patel, T.K. Menker, J.M. Dettmers, R.A. Wright, D.R. DeVries, and R.A. Stein. 2002. Detritus quality and fish density influence gizzard shad growth and survival. Poster presentation at the 132nd Annual Meeting of the American Fisheries Society, Baltimore, MD, 18-22 August.

Kim, G.W. E. A. Marschall, S. W. Fisher, and R. A. Stein. 2002. Lake Erie Benthic Food Webs: Effect of Exotic Species on Energy and PCB Flow. 2002 Ohio Division of Wildlife Annual Research Review Meeting, Columbus, Ohio, 14-15 February.

Kim, G. W., M. R. Gearhiser, C. Knight, E. A. Marschall, S. W. Fisher, and R. A. Stein. 2002. Selective predation by Smallmouth Bass on Round Goby, Emerald Shiner, and Crayfish. 45th Annual Meeting of the International Association for Great Lakes Research, Winnipeg, Manitoba, 2-6 June.

R/ER-60

3/1/2002 2/28/2004

Heath, R.T. 2002. Energy and Material Transport through an Aquatic Ecosystem. Seminar. Dept. of Physics, Kent State University, 31 October.

Heath, R.T. 2002. Significance of the Microbial Food Web in C- and P- transport through the base of the food web in Lake Erie. Dept. Microbiology, Univ. Tennessee, Knoxville.

Heath, R. T. 2002. The importance of little things in Great Lakes. Biology Seminar, John Carroll Univ. 11 Nov.

Heath, R. T. 2002. Were lake Erie phytoplankton P-limited in 2002?. Millennium Conference, Windsor, ONT. 8 November.

R/ER-62-PD

5/1/2001 4/30/2002

Culver, D. A. 2002. Central Basin anoxia. U.S. Senator George Voinovich presided over a committee field hearing of the Senate Committee on Environment and Public Works on 5 August 2002 in Cleveland, Ohio, to help explain the Lake Erie Central Basin Anoxia (Dead Zone). I was invited to testify at this hearing, and my testimony was entered into the Congressional Record. www.senate.gov/~epw/stm1_107.htm#08-05-02; www.senate.gov/~epw/s

Culver, D. A., J. D. Conroy*, W. J. Edwards*, D. D. Kane*, R. A. Pontius, J. N. Richey, J. F. Shea*, and H. Zhang*. 2002. The contributions of lower trophic level dynamics, dreissenid mussels and physical processes to Lake Erie trophic status. Progress meeting of EPA funded research group in Windsor, Ontario. 8 November.

R/ES-5

9/1/1992 8/31/1994

Heath, R. T. and M. Munawar. 2002. Significance of the Microbial Food Web in Freshwater Ecosystems. Keynote Address. Great Lakes of the World III Conference, Arusha, Tanzania. February.

R/ES-6-PD

6/18/2000 5/31/2001

Bleidorn, T., Granata, T.C. Arhenholz, B. 2002. Preliminary Data from an Automated, in situ profiling systems sampling in the bottom boundary layer. The 2002 Meeting of the Ecological Engineering Society of America, April 28-30, Burlington, VT.

R/LR-4

3/1/1998 8/31/2003

Carol A. Stepien, Clifford D. Taylor, and Donald Einhouse. 2002. Analysis of Genetic Hybridization Risk Posed by Fish Stocking to a Historic Walleye Group. Woodlake Environmental Field Station Annual Conference, October.

Carol A. Stepien, Miles M. Coburn, Ted M. Cavender, and Clifford D. Taylor. 2002. Genetic and Morphological Identity of the "Extinct" Blue Pike *Stizostedion glaucum* versus walleye *S. vitreum*. Society of Ichthyologists and Herpetologists held in Kansas

Carol A. Stepien and Clifford D. Taylor. 2002. Population genetics and stock structure of walleye in Lake Erie. Workshop on "Using DNA data to understand fish stock structure in Lake Erie" presented to the Ohio Division of Wildlife and held at CSU, November 20.

Carol A. Stepien 2002. Unlocking the mysteries of Great Lakes Fishes and Exotic Invasions: DNA Clues. Beckman Sequencing Conference, University of Pittsburgh, Pa.,

Carol A. Stepien 2002. Unlocking the mysteries of Lake Erie fishes and invasive species using clues. Stone Laboratory, Ohio State University seminar August 1.

R/LR-5

3/1/2001 2/28/2004

W. Calvin Borden and Carol A. Stepien. 2002. Discerning genetic structure of smallmouth bass populations in Lake Erie using mtDNA sequence and microsatellite data. Poster presentation at Cleveland State University Department of Biological, Geological, and Environmental Sciences and Cleveland Clinic Foundation Graduate Symposium at the Cleveland Clinic in November.

Cal Borden. 2002. Population structure of smallmouth bass in Lake Erie. Oral presentation to Ohio Division of Wildlife in conference on "Using DNA data to understand fish stock structure in Lake Erie", held at CSU on November 20.

Cal Borden and Carol A. Stepien. 2002. Using DNA to Track Smallmouth Bass Populations in Lake Erie and Tributaries. Oral Research Presentation at Woodlake Environmental Field Station Annual Conference, Cleveland State University, October 5.

R/ME-24

3/1/2001 2/28/2003

Yeh, C., B. Sohngen, T. Haab. 2002. Modeling Multiple-Objective Recreation Trips With Choices Over Trip Duration And Alternative Sites. Selected paper presented at the World Congress of Environmental and Resource Economists, Monterrey, CA. June.

R/NIS-3

3/1/1998 2/28/2002

Pinto, M. and J.G. Miner. 2002. Perturbations from invading species: round goby predation on the keystone species (zebra mussel) in Lake Erie. Ohio Academy of Sciences.

R/NIS-5-PD

9/1/1997 12/31/1997

C.A. Stepien. 2002. The genetics of recent nonindigenous species invasions in the Great Lakes. Invited Departmental seminar presentation, Department of Biology, University of Akron, 14 March.

R/NIS-6-PD

3/1/1999 12/31/1999

C.A. Stepien 2002. Population genetic variability and phylogeographic patterns of zebra and quagga mussels: Exotic invasions and the leading edge hypothesis. Oral research presentation on work by C.A. Stepien, K.A. Dabrowska, and C.D. Taylor at the 11th International Conference on Aquatic Invasive Species, Alexandria VA, Feb. 28, 2002. Another version was presented by research student Kora Dabrowska on April 6, 2002 at the Ohio Academy of Sciences annual meeting in Columbus, Ohio.

C.A. Stepien. 2002. The genetics of recent nonindigenous species invasions in the Great Lakes. Invited Departmental seminar presentation, Department of Biology, University of Akron, March 14.

R/NIS-108-SG 9/1/1997 8/30/1998

C.A. Stepien. 2002. The genetics of recent nonindigenous species invasions in the Great Lakes. Invited Departmental seminar presentation, Department of Biology, University of Akron, March 14.

R/NIS-109-SG 9/1/1997 8/31/1998

C. Stepien. 2002. The genetics of recent nonindigenous species invasions in the Great Lakes. Invited Departmental seminar presentation given to the Department of Biology, University of Akron, March 14.

R/NP-1 3/1/1998 5/30/2001

Di, K., R. Ma and R. Li. 2002. 3-D Shoreline Extraction from IKONOS Satellite Imagery. Presentation. At the ASPRS Annual Conference, Washington, DC, April 19-26.

Al-Ruzouq, R., R. Ma, T. Ali, K-C. Cheng, C-Y. Kuo, S. O'Neil, X. Xu, K. Di, R. Li, K.W. Bedford, C.K. Shum, J.R. Ramirez, and A. Zhang. 2002. Demonstration: Digitalization of Coastal Management and Decision Making. National Conference for Digital Government Research "dg.o 2002", Los Angeles, CA, May 20-22.

Li, R., K.W. Bedford, C.K. Shum, J.R. Ramirez, A. Zhang, and K. Di. 2002. Digitalization of Coastal Management and Decision Making Supported by Multi-dimensional Geospatial Information and Analysis. National Conference for Digital Government Research "dg.o 2002", Los Angeles, CA, May 20-22.

Li, R., R. Ma, and K. Di. 2002. Shoreline Extraction from IKONOS Imagery and Coastal Applications. Presentation and abstract. OST-7 Marine GIS, PACON 2002, Tokyo, Japan, July 21-26.

R/PS-26 3/1/2000 2/28/2003

L. K. Weavers, Y. Lu, Z. He, and S. J. Traina. 2002. Sonochemical Desorption and Transformation of 4-Chlorobiphenyl and Mercury from Sediments. Environmental Molecular Science Institute Annual Workshop. Columbus, OH, April 3-5.

R/ZM-9 9/1/1993 12/1/1997

C. Stepien, K.A. Dabrowska and C.D. Taylor. 2002. Population genetic variability and phylogeographic patterns of zebra and quagga mussels: Exotic invasions and the leading edge hypothesis. Oral research presentation given at the 11th International Conference on Aquatic Invasive Species, Alexandria VA, Feb. 28, 2002. A version of this talk was then given by research student Kora Dabrowska at the Ohio Academy of Sciences annual meeting on April 6, 2002 in Columbus, Ohio.

C. Stepien 2002. The genetics of recent nonindigenous species invasions in the Great Lakes. Invited Departmental seminar presentation given by C. Stepien to the Department of Biology, University of Akron, March 14.

Total

86

**Presentations from
Ohio Sea Grant Projects
2003**

Presentations from Ohio Sea Grant Projects—2003

Project Number	Initiation	Completion	Presentation
<u>A/EP-1</u>	9/1/1978		Lichtkoppler, F. 2003. Closing the Gap: Linking GAP Science to Local Decision Makers. 46th Conference of the International Association for Great Lakes Research, June 22-26. Chicago, Illinois.
<u>A/EP-4</u>	3/1/2002	2/28/2006	Lacy, D. and Lucente, J. 2003. Building A Community Leadership Network to Improve Public Sector Decision Making. Community Development Society International Conference. Ithaca, New York, July 21-24. Lucente, J. 2003. Improving Public Sector Decision Making Through A Community Leadership Network. First Annual Wisconsin Community Leadership Summit. Wisconsin Rapids, Wisconsin, April 3-4. Lacy, D. and Lucente, J. 2003. Measuring the Impact of Leadership Skill Development on Public Officials. Association of Leadership Educator's International Conference. Anchorage, Alaska, July 16-19. Davis, G. and Lucente, J. 2003. Using Retrospective Pretest Methodology In Leadership Development For Public Officials. Midwestern Educational Research Association National Conference. Columbus, Ohio, October 16-17.
<u>A/EP-6</u>	7/1/2002	6/30/2003	Snyder, Fred 2003. Aquatic Biology. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13. Kelch, Dave 2003. Aquatic Nuisance Species. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13. Kelch, Dave 2003. Contaminants in Fish. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13. Reutter, Jeff 2003. Current Lake Erie Issues. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13. Snyder, Fred 2003. Fish Habitat. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13. Hageman, John 2003. Fish Identification and Anatomy. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13. Reutter, Jeff 2003. Fisheries Management Tools. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13. Hageman, John 2003. Lake Erie Science Cruise. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13. Reutter, Jeff and Hageman, John 2003. Plankton Identification. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13. Lichtkoppler, Frank 2003. The 2002 Lake Erie Charter Industry. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13.

Lichtkoppler, Frank 2003. The Great Lakes Charter Fishing Industry in 2002. Great Lakes Fisheries Leadership Institute. Stone Lab, Put-In-Bay, OH; September 12-13.

E/NIS-3

10/1/2001 9/30/2003

Ricker, K.T. 2003. Are There Exotic Species in YOUR Neighborhood? Presented at the Environmental Education Council of Ohio Annual Conference, Maumee Bay Ohio, March 28-30.

Goettel, R. and Fortner, R.W. 2003. Reality Internet: Surviving the Exotic Species Challenge. Presented at the annual conference of the National Marine Educators Association, Wilmington, NC. July 20.

Ricker, K.T. 2003. Zebra Mussels and More: Teaching about Invasive Exotic Species. Presented at the Science Education Council of Ohio Annual Conference, Dayton, Ohio, February 20-22.

E/TER-2

3/1/2002 2/28/2005

Rosanne W. Fortner, Joe L. Arvai, J.E. Malinowski, and A. Froschauer. 2003. Instructional materials for environmental decision making. NAAEE Annual Conference, October 10.

Fortner, R.W. and J.D. Arvai. 2003. On-line curricula for environmental decision-making. Proposed for NAAEE annual conference.

Fortner, R.W. 2003. Sediments, seasons and ships: Teaching about the Earth system with Lake Erie examples. Environmental Education Council of Ohio, March 30, Maumee Bay State Park, OH.

M/P-1

9/1/1978

Reutter, J.M. and F.L. Snyder. 2003. Aquatic Nuisance Species. Confluence 2003: Statewide Boating Conference. Maumee Bay State Park. Toledo, Ohio. 13 November.

Reutter, J.M. 2003. Current Issues Facing Lake Erie. Great Lakes Fisheries Leadership Institute. Stone Laboratory. Put-in-Bay, Ohio. 13 September.

Reutter, J.M. 2003. Current Issues Facing Lake Erie. Scubafest. Columbus, Ohio. 1

Reutter, J.M. 2003. Fisheries Management Tools. Great Lakes Fisheries Leadership Institute. Stone Laboratory. Put-in-Bay, Ohio. 13 September.

Reutter, J.M. 2003. Future NAML Activities and Role. Annual Meeting of the National Association of Marine Laboratories. Barruch Laboratory. South Carolina. 17 October.

Reutter, J.M. 2003. Great Lakes Participation in the Global Ocean Observing System. Millennium Network Conference. University of Windsor. Ontario. 7 May.

Reutter, J.M. 2003. Invasive Species. Sea Grant Week Presentation. Galveston, Texas. 29 April.

Reutter, J.M. 2003. Lake Erie and Current Issues Facing the Great Lakes. Lakeside, Ohio Summer Lecture Series. 23 June.

Reutter, J.M. 2003. Lake Erie and Current Issues Facing the Great Lakes. Lakeside, Ohio Summer Lecture Series. 28 August.

Reutter, J.M. 2003. Lake Erie Issues (Breakout Session). Confluence 2003: Statewide Boating Conference. Maumee Bay State Park. Toledo, Ohio. 13 November.

Reutter, J.M. 2003. Lake Erie Issues (Plenary). Confluence 2003: Statewide Boating Conference. Maumee Bay State Park. Toledo, Ohio. 12 November.

Reutter, J.M. 2003. Lake Erie Needs and Priorities. Special presentation to Government Accounting Office. Ohio State University. 7 November.

Reutter, J.M. 2003. Ohio Sea Grant and Lake Erie. The Review Club. The Columbus Club. Columbus, Ohio. 7 March.

Reutter, J.M. 2003. OSU and Lake Erie. Campus Ministries. Ohio State University. Newman Center. 24 October.

Reutter, J.M. 2003. Recent Changes in the Lake Erie Ecosystem and Opportunities for Study at Stone Laboratory. Otterbein College. Westerville, Ohio. 17 April.

Reutter, J.M. 2003. The Dead Zone in Lake Erie: A Brief History, the Current Status, and Recommendations for the Future. United States Senate Committee on Environment and Public Works. Cleveland, Ohio. 25 August.

Reutter, J.M. 2003. The Great Lakes, Ohio Sea Grant and Stone Laboratory. Project Learning Tree Annual Meeting. Stone Laboratory. Put-in-Bay, Ohio.

Reutter, J.M. 2003. The Lake Erie Ecosystem: Current Issues and Opportunities for Study at Stone Laboratory. Wittenberg University Environmental Science Lecture. Wittenberg University. 27 January.

Reutter, J.M. 2003. The Ohio State University's Lake Erie Programs and Lake Erie. Winter Lecture: Stone Lab and Ohio Sea Grant. Fawcett Center, Ohio State University. 4

Reutter, J.M. 2003. The Ohio State University's Lake Erie Programs and Lake Erie. Faculty Club Luncheon. Ohio State University. 3 April.

Reutter, J.M. 2003. Update on GOOS/IOOS. Sea Grant Association. Seattle, Washington. 3 November.

Reutter, J.M. 2003. Update on the Dead Zone, ANS, and Related Ecosystem Changes. Annual Meeting of the Great Lakes Sport Fishing Council. Port Clinton, Ohio. 18

M/P-2

9/1/1980

Ricker, K.T., Krantzberg, G., Manninen, C., and Miles, I. 2003. Biological Invasions: How Media Communications Can Impact Policy and Research Agendas. Presented at the International Association of Great Lakes Research Annual Conference, June 23 - 26, 1999, De Paul University, Chicago, IL.

Ricker, K.T. 2003. Ohio Sea Grant's Web Site Trends. Presented at the Great Lakes Sea Grant Network Regional Conference, June 8-11, 2003, Burlington, VT.

R/CE-5

3/1/2000

2/28/2003

Yi, Y., A. Braun, C. Shum, K. Cheng and S. Calment 2003. Envisat RA2 cal/val results. Envisat RA-2/MWR CCVT Sixth Plenary Meeting, ESA/ESRIN, Frascati, Italy, March

Yi, Y., K. Cheng, C. Shum, A. Braun, and S. Calmant 2003. ENVISAT RA-2 calibration/validation. Proc. EGS-AGU-EUG Joint Assembly, Nice, France, April 6-11.

Shum, C., C. Kuo, and A. Braun. 2003. Vertical crustal motion inferred by satellite altimetry and tide gauge. PARCA Meeting, Byrd Polar Research Center, Ohio State Univ.,

- R/EM-21-PD** 8/1/2000 7/31/2001
Matisoff, G. and Neeson, T. 2003. Quantifying Sediment-Oxygen Demand in Lake Erie. 46th Conf. on Great Lakes Res., Intern. Assoc. Great Lakes Res., Chicago, IL.
- R/EM-23** 3/1/2003 2/28/2005
Smith, C., Martin, J.F. 2003. Development of a General Ecological Model for the Sandusky Watershed. May 29. American Ecological Engineering Society Annual Meeting. College Park, Maryland. Poster presentation.
- R/EM-25-PD** 5/1/2001 12/30/2001
Krupa, K. 2003. Larval fish assemblages of Metzger Marsh, pre- and post-restoration. Presented to "Current coastal Lake Erie marsh management: adding fish to the equation." Wetlands Workshop II, Ohio Chpt. of the American Fisheries Society, OSU-Museum of Biological Diversity, Columbus, OH.
- 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 2003. PCB Biomagnification in the zebra mussel - round goby - smallmouth bass food chain in Lake Erie. 133rd Annual Meeting of the American Fisheries Society, Québec City, Québec, Canada, 10-14 August.
- R/ER-60** 3/1/2002 2/28/2004
Heath, R. 2003. Regulation of Microbial Activity at the Base of the Lake Erie food web. Millennium Conference 2003. Univ. Windsor., Windsor, ONT. 5 May.
- R/ER-61-PD** 6/1/2002 5/31/2003
Southward, L.R., E.A. Marschall, and R.A. Stein 2003. Trophic transfer of mercury and lead to top predators: Quantifying the role of non-native species in Lake Erie. Presented at annual meetings of the International Association of Great Lakes Research, Chicago, Illinois and American Fisheries Society, Quebec, Canada.
- R/ES-5** 9/1/1992 8/31/1994
Heath, R. T. and M. Munawar. 2003. Regulation of microbial productivity at the base of the food web in Lake Erie. Lake Erie at the Millennium Conference 2003. Univ. Windsor, Windsor, ONT. May.
- R/LR-4** 3/1/1998 8/31/2003
Stepien, C.A., C.D. Taylor, M.A. Tumeo, and D. Einhouse. 2003. Analysis of genetic hybridization risk posed by fish stocking to a historic walleye spawning group. American Fisheries Society Annual Meeting. August 14.
- Stepien, C.A., C.D. Taylor, M.A. Tumeo, and D. Einhouse 2003. Analysis of genetic hybridization risk posed by fish stocking to a historic walleye spawning group. Poster presentation at 43rd Annual Ohio Fish and Wildlife conference, Columbus OH on
- Stepien, C.A., C.D. Taylor, M.A. Tumeo, and D. Einhouse. 2003. Analysis of genetic hybridization risk posed by fish stocking to a historic walleye spawning group. American Fisheries Society Western Division Meeting, San Diego, Calif. Invited oral research presentation in symposium on "Interactions of hatchery and wild fishes". April
- Stepien, C.A., C.D. Taylor, M.A. Tumeo, and D. Einhouse. 2003. Analysis of genetic hybridization risk posed by fish stocking to a historic walleye spawning group. Percis III Conference, Madison, Wisconsin. July 24.

Stepien, C.A. 2003. DNA analyses of walleye population genetic structure in Lake Erie. Oral research presentation to Lake Erie Walleye Task Force annual meeting. Feb. 12.

R/LR-5

3/1/2001 2/28/2004

W. Calvin Borden and Carol A. Stepien. 2003. Discerning genetic structure of smallmouth bass populations in Lake Erie using mtDNA sequence and microsatellite data. Poster presentation at Ohio Division of Wildlife. Annual Meeting. February 7.

W. Calvin Borden and Carol A. Stepien. 2003. Discerning genetic structure of smallmouth bass populations in Lake Erie using mtDNA sequence and microsatellite data. Poster presentation at American Fisheries Society Annual Meeting, Quebec, Canada. August 11-14.

W. Calvin Borden and Carol A. Stepien. 2003. Population structure of smallmouth bass (*Micropterus dolomieu*) in Lake Erie using mtDNA sequences and microsatellite data. Invited Symposium Presentation at the American Fisheries Society Annual Meeting, Quebec, Canada. August 11.

W. Calvin Borden and Carol A. Stepien. 2003. Population structure of smallmouth bass (*Micropterus dolomieu*) in Lake Erie using mtDNA sequences and microsatellite data. Poster presentation at Cleveland State University's Department of Biological, Geological and Environmental Sciences and Cleveland Clinic Foundation Graduate Research Poster Show. September 26.

W. Calvin Borden and Carol A. Stepien. 2003. Population structure of smallmouth bass (*Micropterus dolomieu*) in Lake Erie using mtDNA sequences and microsatellite data. Poster presentation at Woodlake Environmental Field Station Conference, Cuyahoga Valley National Park, October 25.

R/LR-6-PD

12/1/2001 8/31/2003

Getz, R., Farver, J.R. and Miner, J.G. 2003. Lake Erie white bass: can otolith chemical signatures differentiate stocks. 43rd Ohio Fish and Wildlife conference, February 7.

R/MB-2

9/1/2002 8/31/2004

K. R. Jaggari, B. Zhang Newby. 2003. Immobilizing Capsaicin on Silicone To Access the Coatings Antifouling Performance. Adhesion Society meeting, February, Myrtle Beach.

R/PS-26

3/1/2000 2/28/2003

Z. He, L. K. Weavers, S. J. Traina, and P. G. Hatcher 2003. Mechanism of sonochemical desorption of mercury from synthetic sediments. 226th ACS National Meeting. New York City, NY, September 7-11.

Ziqi He, Linda K. Weavers, Samuel J. Traina, and Patrick G. Hatcher 2003. Sonochemical Desorption of Mercury from Sediments. Ohio Section American Water Works Association Annual Conference. Cincinnati, Ohio, September 22-26.

Ziqi He, Douglas Schaffer, Linda K. Weavers, Samuel J. Traina, Patrick G. Hatcher 2003. Sonochemical Desorption of Metals from Synthetic Sediments. Environmental Science Graduate Program (ESGP) Seminar. Columbus, Oh. October 10.

Z. He, L. K. Weavers, S. J. Traina, and P. G. Hatcher 2003. Ultrasound desorption of mercury from synthetic sediments. Environmental Molecular Science Institute Second Annual Workshop. Columbus, OH, June 9-10.

R/PS-30

3/1/2003 2/28/2005

L. K. Weavers 2003. Sonochemical Desorption and Degradation of Pollutants from River

Sediments. Environmental Science Graduate Program, The Ohio State University,
Columbus, OH, October 10.

R/ZM-31-PD

4/1/2002

3/31/2003

Berg, D. J., C. L. Elderkin, J. A. Stoeckel, and P. L. Klerks 2003. A laboratory experiment to test heritability of thermal tolerance in zebra mussel veligers. Poster presented at the annual meeting of the North American Benthological Society, Athens, GA.

Total

73

Appendix D

Communications

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

OHIO SEA GRANT COMMUNICATIONS

The overall goal of the Ohio Sea Grant Communications Program is to provide current, accurate, research-based information to Ohio's citizens and others interested in Lake Erie and Great Lakes issues. The communications team supports all elements of the Ohio Sea Grant College Program, including Stone Laboratory and the Great Lakes Aquatic Ecosystem Research Consortium. Efforts include:

- Developing, promoting, evaluating, and enhancing the communications efforts of Ohio Sea Grant and our researchers, educators, and extension specialists through such products as newsletters, fact sheets, displays, conferences, and our web site.
- Interacting and working together with communications efforts of the National Sea Grant College Program, the national and regional Sea Grant networks, other networks such as the Great Lakes Information Network, and various environmental and research areas at The Ohio State University.

The following sections highlight accomplishments in selected areas for the time period of January 2002—September 2003.

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

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, resource users, all levels of government, associations, industries, Sea Grant, and the general public. Publication policies are established by the Director, Communications Coordinator, and the Extension Program Coordinators.

Most general public 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. Ohio Sea Grant publications are recognized for their quality and have been honored in award competitions. In 2003 the program newsletter, *Twine Line*, received its second *APEX Award of Excellence*. In addition to this honor, Communications received a “Blue Ribbon Award” in the “partnership” category at the National Sea Grant Week Conference for its *Guides to Lake Erie's Historic Shipwrecks*.

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.

Table 1 lists the number of publications in each series produced by Ohio Sea Grant from 2002 – 2003 (only the first 9 months of 2003 are included). A complete list of all titles is also provided.

Table 1. Publications Produced by Ohio Sea Grant 2002- 2003¹

	B	EP	FS	GS	N	PR	RS	TB	TS	TD	Total/Year
2002	3	1	1	1	6	3	8	5	1	2	32
2003	-	-	3	1	5	1	1	1	-	-	12
Total:	3	1	4	2	11	4	9	6	1	2	44

¹ Key: B=Brochures; EP=Educational Publications FS=Fact Sheets; GS=Guide Series; N=Newsletter; PR=Public Relation Materials; RS=Reprint Series; TB=Technical Bulletins; TS=Technical Series; TD=Theses/Dissertations.

Publications List (titles are listed in order by number)

Books

BS-012 Bibliography and archival guide to the writings of Edwin Lincoln Mosely

Brochures

B-056a Ohio Sea Grant Publications brochure (revised 2002)

B-060 Franz Theodore Stone Laboratory handbook

B-061 Franz Theodore Stone Laboratory "Welcome" brochure (earlier publication, added to series in 2002)

Education Publications

EP-090 Workshop Log for Stone Laboratory

Fact Sheets

FS-025a Lake Erie's Water Levels (revised 2002)

FS-010a Finding Maps and Charts (revised 2003)

FS-012a Marine-Related Careers (revised 2003)

FS-063a Wetlands and Fisheries (revised 2003)

Guides

GS-020 Guides to Lake Erie's historic shipwrecks: The Adventure , W. R. Hanna, and F. H. Prince

GS-019d 2003 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 bi-monthly: Jan/Feb; Mar/Apr; May/June; July/Aug; Sept/Oct; and Nov/Dec. (Note: For the time period reported here, 11 issues were produced).

Public Relations

- PR-005a Crites Prints, pen and Ink: Scenes at Stone Laboratory: South Bass Island Lighthouse
- PR-008 Lake Erie Programs at The Ohio State University: Media coverage 2001
- PR-009 Franz Theodore Stone Laboratory Centennial & Rededication (earlier publication, added to series in 2002)
- PR-010 Lake Erie Programs at The Ohio State University: Media coverage 2002

Reprint Series

- RS-268 Changes in Genetic Structure of North American Bythotrephes Populations Following Invasion from Lake Ladoga, Russia.
- RS-269 Great Lakes Educational Needs Assessment: Teachers' Priorities for Topics, Materials, and Training.
- RS-270 Dynamics of a Pioneer Population of Eurasian Watermilfoil (*Myriophyllum Spicatum* L.) in A Shallow Lake Erie Wetland.
- RS-271 Genetic Variability and Phylogeographical Patterns of a Nonindigenous Species Invasion: A Comparison of Exotic vs. Native Zebra and Quagga Mussel Populations.
- RS-272 Changes in Zooplankon Populations in Western Lake Erie after Establishment of *Dreissena Polymorpha*.
- RS-273 Cadmium and Iron-Stress-Inducible Gene Expression in the Green Alga *Chlamydomonas Reinhardtii*: Evidence for H43 Protein Function in Iron.
- RS-274 Photoinduced Degradation of Carbaryl in a Wetland Surface Water.
- RS-275 Recolonization and Possible Recovery of Burrowing Mayflies (Ephemeroptera: Ephemeroptera: Hexagenia spp.) in Lake Erie of the Laurentian Great Lakes.
- RS-276 Molecular mechanisms of proline-mediated tolerance to toxic heavy metals in transgenic microalgae

Technical Bulletins

- TB-059 Franz Theodore Stone Laboratory: Program Review 2001
- TB-060 2001 Tourism Customer Survey: Cedar Point/Lake Erie Islands Region
- TB-061 The Future of Curbside Recycling in Lake County, Ohio: A Report on Residents' Views.
- TB-062 Soil and Water Issues in Cuyahoga County, Ohio: Survey Results.
- TB-063 Land Use Issues and Concerns in Lake County, Ohio: Survey Results
- TB-064 Ohio Sea Grant College Program Progress Report 2001-2003

Technical Summaries

- TS-031 New Technology in Aquaculture for Raising Yellow Perch

Theses and Dissertations

- TD-088 *Phragmites Australis*: Response to Wave Exposure Gradients, Substrate Characteristics, and its Influence on Plant Species Diversity in a Lake Erie Coastal Marsh

TD-089 Succession of Floating-Leaf to Emergent Plant Communities Following Reduced
Water Levels in Old Woman Creek National Estuarine Research Reserve,
Huron, Ohio

Publication Distribution

Ohio Sea Grant publications are distributed according to the guidelines provided by the National Sea Grant College Program. In addition, publications for a general audience are distributed through Ohio State University Extension and selected businesses and organizations such as the Lake Erie Marine Trades Association and the Lake Erie Nature and Science Center, and special events such as the Ohio Sea Grant & Stone Laboratory Winter Lecture and summer Open House. Materials are also distributed through the Eisenhower National Clearinghouse; the Educational Resource Instruction Center (ERIC) Clearinghouse for Science, Mathematics, and Environmental Education; 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), Com-Net (the Communicators Network within the Great Lakes Region), 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 2002–2003. 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. Materials Distributed:	2002	2003 (9 months)
Fact Sheets ¹	34,345	10,509
Technical Publications ²	111	821
CTR ³		
Education Publications ⁴	1,361	4,429
Guides	800	735
Brochures	3,761	1,419
Books	8	-
ID Cards (Eurasian Ruffe, Round Goby)	21,600	15,105
Stone Laboratory Materials:		
Fliers	27,866	25,300
Brochure	3,643	6,486
Posters ⁵	1,544	1,046
Total:	95,031	65,850

¹ Most of our fact sheets are now available on our web site for patrons to download.

² Includes journal reprints, technical bulletins, and technical summaries. In 2001, 3500 copies of one technical bulletin was produced and distributed on behalf of the National Sea Grant program (Aquatic Nuisance Species Report).

³ Two copies of 318 historic data documents for CLEAR were submitted for the inclusion of the National Sea Grant Library.

⁴ 3,000 kids activities were distributed in 2003

⁵ In 2002, individual posters were produced instead.

Table 3 Audiences Requesting Materials in 2002-2003¹

Audiences	Number of Requests	
	2002	2003
General public	148	187
Environmental organization/zoo/park/museum	26	21
K-12 student	5	12
K-12 Educator	68	13
University teacher	18	36
Government	7	21
Researcher	7	9
University student	6	3
Industry	1	6
Stone Laboratory Materials		
High school students	137	110
K-12 teachers	171	102
College students	214	228
College teachers	18	5
Others	27	18
Total:	853	771

¹ Most of our fact sheets are now available on our web site for patrons to download.

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

2002 American Association for the Advancement of Science Conference American Fisheries Society Annual Meeting Ashtabula Lighthouse Restoration Society Circleville City Schools Cleveland Boat Show Cleveland Sport Show Congressional/Legislative Day on Lake Erie Illinois Natural History Survey Indiana Dunes National Lakeshore Marion County Soil and Water Conservation District Perry's Victory and International Peace Memorial Michigan Sea Grant Extension Ohio Department of Natural Resources Ohio Lake Erie Commission Ohio Sea Grant and Stone Laboratory Winter Lecture Ohio Sea Grant Charter Captains Conference Ohio University Library Olentangy River Wetland Project Ottawa County Extension Minnesota Sea Grant NJ Sea Grant Coast Day New York Sea Grant Stone Laboratory Open House University of Southern Mississippi Wright State University US EPA Large Lake Research Station	2003 Cedar Point In Water Boat Show Clean Marinas Program Cleveland Boat Show Cleveland Sport Show Coast Guard Auxiliary Spring Conference COSI Educator Appreciation Night Eisenhower National Clearinghouse Environmental Education Council of Ohio Great Lakes Historical Society Hillsdale Educational Publishers IL IN Sea Grant Indiana Dunes National Lakeshore JASON PROJECT Toledo, OH Kelleys Island Audubon Club Kirtland, Ohio Lake Metro Parks Lake Erie Island Historical Society Miller Boat Line Gift Shop Northwind Books Ohio Department of Natural Resources Fisheries Ohio Department of Natural Resources Muskingham Park Service Ohio Lake Erie Commission Ohio Sea Grant and Stone Laboratory Winter Lecture Ohio Sea Grant Charter Captains Conference OSU Extension Advanced Pond Management OSU Lake County Extension Office OSU Lunch and Learn Program 44 OSU Physical Facilities OSU Young Scholars Program Old Woman Creek National Estuary Pennsylvania Sea Grant Perry's Victory and International Peace Memorial River Road Publications Spring Lake, MI Sacramento, CA Department of Water Resources Seaway Trail SECO Conference (Science Education Council of Ohio) Sharon Woods Metro Parks Project WET Sharon Woods Metro Parks Schrock Lake Spectacular State Representative Redfern's Legislative Day on Lake Erie Stone Laboratory Great Lakes Education Workshop Stone Laboratory Open House University of Toledo
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Web Site

Ohio Sea Grant Communications designs and oversees the program web site: www.sg.ohio-state.edu. The Communications Graphic Designer is the hands-on staff member that develops the design for all aspects of the web site: Ohio Sea Grant, Stone Laboratory, GLAERC, and CLEAR. The Communications Coordinator and Graphic Designer, in conjunction with the Director and Extension Program Coordinators, create the content for the web pages and oversee the site. The program web site is organized under the heading "Lake Erie Programs" which includes Ohio Sea Grant, Stone Laboratory, the Great Lakes Aquatic Ecosystem Research Consortium (GLAERC), and the Center for Lake Erie Area Research (CLEAR). Over the past few years, the web site has grown immensely and now contains over 1000 pages of information including fact sheets, *Twine Line* issues, research projects, education and curriculum information, plus Stone Lab course and workshop information, and course syllabi.

Many of our fact sheets and newsletters are also available as PDF documents. Web users have the option of accessing and printing materials on-line instead of ordering them from our office. With the increased popularity of the Internet in general, and our web site in particular, many patrons are now accessing fact sheets from our web site.

A 13-topic subject directory cross-references all program areas to enable users to find materials by the following topics:

Aquaculture	Global Change/Environmental Studies
Aquatic Nuisance Species	Natural History
Aquatic Ecology/Fisheries	Pollution
Biotechnology	Tourism
Coastal/Ocean Engineering	Wetlands
Economic Development	Zebra Mussels
Fishing	

In 2002, initial steps were taken to make the web site more accessible to people with disabilities (Section 508 accessible). A new discussion board was developed for the web site, the *Lake Erie Information Discussion Board*. The goal of the Board is to offer plain-talk answers to science inquiries, and provide a forum for discussing Lake Erie-related concerns. The Board is monitored by Ohio Sea Grant Extension Specialists and Agents to ensure a prompt response to questions. When necessary, Sea Grant researchers and partners at colleges, universities, and agencies throughout Ohio and the nation are contacted for the most up-to-date answers. Since its inception, the Discussion Board has addressed questions about the Lake Erie "dead zone," walleye fishing, perch and zebra mussels, sea lampreys in Lake Erie, lake temperature, threats to Lake Erie, and many other topics. The Board can be accessed from the main home page, or from www.sg.ohio-state.edu/discus.

The web site was overhauled to make it Section 508 compliant in 2003. New features include a new calendar of events; new imagery for each program; and a "related links index" based on topics. 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.

Unlike the old site where “related links” were the same for each page, the new index allows links to be categorized into topic areas to help the user find specific information quicker. The publications catalog can now be broken down into publication types. This permits a user to find a list of all fact sheets, for example, without having to navigate through all publications in all four programs.

Potential Stone Lab students have more information they can access than in previous years. Stone Lab course syllabi are now downloadable for each summer course, along with a video clip of the course instructor describing the course.

Sea Grant web site also provided users the opportunity to be informed of new *Twine Line* issues via an email notification. Because of rising printing costs, this is the yet another step to provide more readers access to the latest newsletter and ultimately decrease the reliance of hard copy distribution.

Web Site Statistics

Since 1999, Communications has been using WebTrends, a commercial program that performs web site analysis. Web Site use was tracked and analyzed for 1999-2003. During this timeframe, there was a total of 258,165 “hits” to our entire site in 1999; 571,756 “hits” in 2000; 988,631 for 2001; 1,623,916 hits for 2002 and 1,193,795 hits as of September 2003. Staff members’ usage is excluded from the statistics; hits by the Google and Inktomi search engines are also excluded because of the way their indexing system configurations over-inflate site statistics. (Note: Hits generated *through* those search engines, i.e. when someone looks for a topic and finds it on our site, have not been excluded since those are coming from the user themselves). Table 3 shows information related to the number of hits and visitors to the site during this period.

Table 5: Number of Hits and Visitors to the Ohio Sea Grant Website: 2002 – September 2003

Hits and Users	2002	2003
Number of Successful Hits for Entire Site	1,623,916	1,193,795
Average Number of Hits Per Day	4,449	4,385
Number of Unique Users	76,516	79,052

During this timeframe, the most frequently visited pages within our site (besides our homepage to the main pages for each program area: Sea Grant, Stone Lab, GLAERC, CLEAR) included various fact sheets, information on zebra mussels and other aquatic nuisance species, the Stone Laboratory course schedule, and other materials. Table 6 shows the most frequently requested pages and materials for this timeframe.

Table 6: Most Frequently Requested Pages and Materials: January 2002 – September 2003

Fact Sheets

Lake Erie Water Quality: Past, Present and Future (FS-046)
 Zebra Mussels in North America: The Invasion and its Implications (FS-045)
 Boaters: Take Action against Zebra Mussels (FS-054)
 Ruffe: A Serious Threat to North American Fisheries (FS-064)
 Farm Pond Management Tips (FS-061)
 Fish Smoked at Home (FS-032)

Round Gobies invade North America (FS-065)
 Find Maps and Charts (FS-010)
 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	Job Opportunities

From January 2002—September 2003, the site was visited most frequently by people in North America, Europe, Asia, and Australia. Table 7 shows the top 10 locations of visitors to the web site by country per year.

Table 7: Top 10 Locations of Web Site Visitors by Country: 2002 – September 2003

2002	2003
United States	United States
Canada	Canada
United Kingdom	Netherlands
Australia	United Kingdom
Netherlands	Australia
Poland	Germany
Japan	Singapore
Germany	France
France	Poland
Singapore	Japan

In the upcoming year, Communications plans to monitor the web site analysis and use the results to better market specific sections of the web site to the public and specialized audiences, such as researchers and K-12 teachers.

TWINE LINE NEWSLETTER

Twine Line, a bimonthly eight-page newsletter geared toward the public, agencies, media, and elected officials, provides coverage about Lake Erie and Great Lakes issues and research. The year 2003 marked *Twine Line*'s 24th year. Approximately 6,000 newsletters are distributed per issue through paid and free subscriptions, and at special events and conferences. For special events, such as boat and sport shows, additional copies are printed for distribution. Subscribers include the general public, elected officials, libraries, Sea Grant and Extension personnel, outdoor writers, teachers (K-12 and university), and reporters at newspapers, magazines, television and radio stations. Over the course of a year, approximately 75 percent of the articles are written by the Communications Coordinator. Articles are also written by other staff members including the Director, Extension staff, and Friends of Stone Lab members (25 percent).

Since the February 1993 issue, we have collaborated with the Ohio Lake Erie Commission to include their four-page *North Coast Newsletter* in each issue of the eight-page *Twine Line* to produce a 12-page newsletter. The Ohio Lake Erie Commission represents the six Ohio state agencies with jurisdiction over Lake Erie. The audiences and purposes of both newsletters are similar, so this has been a beneficial relationship for all parties, especially the recipients.

In addition to the *North Coast Newsletter* insert, since November 1997 we have also collaborated with the Friends of Stone Lab (a volunteer group that supports Stone Laboratory) to incorporate their two-page newsletter into *Twine Line*, thus making it three newsletters in one. Since Stone Lab is part of Ohio Sea Grant's education program, and especially since the Lab is the shared research facility for Ohio Sea Grant researchers and other members of GLAERC, it makes sense to include information about Stone Laboratory within the pages of *Twine Line*. Two pages in each issue are devoted to this section. The partnership among Sea Grant, the Ohio Lake Erie Commission, and the Friends of Stone Lab has been a unique newsletter collaboration. These three groups, each with separate interests, work together to disseminate a greater variety of information to a individuals and agencies interested in Lake Erie and the Great Lakes. .

Newsletter Improvements and Awards

Beginning with the July/August 1998 issue, the "look" of *Twine Line* was updated by switching to a 2-color publication printed on a plain white, dull-gloss paper. The change was initiated to enhance the clarity of photographs, graphics, and text that appears in each issue; and to allow the newsletter to stand out visually from other publications. These changes were incorporated without incurring a large increase in printing costs by switching to a more competitive printer. In addition, a new feature was added called "Research Review." This full-page feature focuses on current Ohio Sea Grant funded research projects, discusses the unique nature of the research, and, most importantly, fosters the communication of research results to the public.

On the basis of these improvements, in 2001 *Twine Line* received the won an *APEX Award of Excellence*. As part of the 13th Annual Awards for Publication

Excellence sponsored by Communications Concepts, *Twine Line* competed with 743 other newsletters to be one of the 54 winners in the category of "Newsletters - Printed."

In 2003, *Twine Line* received another *APEX Award of Excellence* in its "Feature Writing" category for the *Entering the Zone* article in the Sept/Oct 2002 issue. 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 Convention.

MEDIA RELATIONS AND COVERAGE

Reporters frequently request information on Lake Erie issues from Ohio Sea Grant. Communications staff members have provided background information, interviews, and contact information to other resources. Reporters receive *Twine Line*, news releases, and information from the Extension staff.

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. The releases are also available on-line through our web site. In 2001, nine releases were distributed; in 2002, 12 releases were distributed; by Sept 2003 19 releases were distributed (see Table 8). Of the 20 news releases in 2003, four were recognized in the National Sea Grant's tip sheets.

Table 8: News Releases Distributed during 2002 and 2003 (Jan. – Sept)

2002

Register Now for Stone Laboratory Summer 2002 Classes (1/28/02)
Manatees and Silent Auction - Winter Lecture and Reception (1/30/02)
Genetically Enhanced Algae Used to Recover Toxic Heavy Metals From Lake Erie (5/14/02)
Stone Laboratory Guest Lecture Series (5/28/02)
Attention Lake Erie Anglers! Summer Steelhead Angling Opportunities are Now! (6/29/02)
Lake Erie Information Discussion Board Now Online (7/29/02)
Lake Erie Shipwreck Guides (8/12/02)
Stone Laboratory Open House (9/4/02)
Wanted! Ohio Steelhead Anglers: Ohio Sea Grant to Initiate Steelhead Angler Survey (10/19/02)
Lake Erie Steelhead Trout Angling Seminar – Reserve Your Seats Now (10/28/02)
Stone Laboratory Awarded Enhancement Grant (10/29/02)
Outstanding Visiting Professors Awarded in 2002 (12/31/02)

2003

Summer 2003 Lake Erie Water Levels to be Lower than Last Year (1/27/03)
Lake Erie Sport Fishing with Some Science Winter Program (2/4/03)
Lake Erie Steelhead Angling Seminar (2/10/03)
Publications from Ohio Sea Grant (2/11/03)
Ohio Sea Grant's Call for Research PreProposals (3/11/03)
Ohio Sea Grant Program Receives Awards (5/08/03)
Stone Laboratory Guest Lectures Summer 2003 (5-0903)
Summer Workshops at Stone Laboratory (5/13/03)

Unique Opportunity: Plan Your Next Meeting or Retreat at Stone Laboratory (5/13/03)
Stone Laboratory Classes Still Available for Summer 2003 (5/13/03)
Stone Laboratory to Offer Photography Workshop by Ian Adams (6/19/03)
Dead Zone Display at Lake Erie Nature and Science Center (7/18/03)
Nitrates and Sunlight Keys to Pesticide Degradation in Lake Erie's Coastal Wetlands (8/12/03)
Sound Waves Could Remove Contaminants Locked in Lake Erie Sediment (8/31/03)
Friends of Stone Lab Sponsors Buckeye Island Hop October 4-5 (9/01/03)
Return of Lake Erie's Dead Zone (9/05/03)
Research Finds Beach Visitors Willing to Pay \$29 Million for No Beach Advisories (9/19/03)
Former Stone Lab Instructor Receives Ohioana Book Award (9/22/03)
Weavers Receives AAUW Recognition Award for Emerging Scholars (9/30/03)

Media Coverage

Twine Line is one of Ohio Sea Grant Communications' primary tools for disseminating information to the media. 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 a single one of their 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 done by staff reviewing newspapers and through use of Lexus-Nexus and other on-line search engines and databases. With the availability of on-line search engines, Communications has found it more efficient to conduct searches in-house by one of the Communications staff members, instead of using 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* (both are nationally syndicated programs), NOAA's "Featured Research" web page, and on local television newscasts. Over 180 articles from 72 different publications were printed in 2001, 235 articles from 107 different publications were printed in 2002, and 160 articles in 47 publications in the first nine months of 2003.

Ohio Sea Grant and Stone Laboratory in the Media 2002

January

01.01.2002. "Boating means big business in Ohio." MID AMERICA BOATING.
01.01.2002. "An expanded schedule awaits at the learning center." MID AMERICA BOATING.
01.01.2002. "The Kelleys Island under water preserve." BOATOHIO.COM.
01.03.2002. "FT Stone Lab on Put-in-Bay, a place for research & ed." THE MAUMEE MIRROR.
01.03.2002. "Lake Erie's slide may stop this year." ASSOCIATED PRESS.
01.04.2002. "Lake Erie slightly higher, but still low." CLEVELAND PLAIN DEALER.
01.04.2002. "Lake Erie's slide may end this year." PORT CLINTON NEWS HERALD.
01.04.2002. "Lake Erie's slide may end in 2002." FREMONT NEWS MESSENGER.
01.04.2002.. "Erie's water level may end 5-Year fall." WWW.GREATLAKESDIRECTORY.ORG.
01.04.2002. "Erie's water level may end 5-year fall." THE COLUMBUS DISPATCH.
01.17.2002. "Western Lake Erie Water Front Guide." THE TOLEDO BLADE.
01.22.2002. "Stone Lab Winter Lecture." OSU DEPT. AG & ENVIRO & DEV ECON.
01.22.2002. "Harold Grapatin." PORT CLINTON NEWS HERALD.
01.28.2002. "Register Now for Stone Laboratory." GLIN ANNOUNCE.
01.30.2002. "FOSL 4th Winter Lecture." OSU DEPT. AG & ENVIRO & DEV ECON PINK SHEET.
Jan/Feb 2002. "Aquatic Conservation & Research Programs." COLUMBUS ZOO BEASTLY BANNER.
Winter/Spring 2002. "SL, Celebrate 20th Anniversary of Friends of Stone Lab." OSU GIVING UPDATE.
January/February/March 2002. "Sea Grant Lichtkoppler." OSU LAKE CO EXTENSION HIGHLIGHTS.
January/February/March 2002. "Sea Grant Boat Show." OSU LAKE CO EXTENSION HIGHLIGHTS.

February

02.07.2002. "Stone Lab sponsors reception, auction." OSU ONCAMPUS.
02.09.2002. "Marina ideas vary, support great." SANDUSKY REGISTER.
02.09.2002. "Ice Fishing a bust this season." THE NEWS-MESSENGER.
02.10.2002. "Fishing seminars for March weekend." THE COLUMBUS DISPATCH.
02.10.2002. "Scientists keeping count of mayflies." CLEVELAND PLAIN DEALER.
02.14.2002. "Great Lakes Seminar Series." GLERL.
02.17.2002. "Walter Carey." COLUMBUS DISPATCH.
02.18.2002. "Fishing Reports, need for Lake Erie info." WWW.WALLEYECENTRAL.COM.
02.20.2002. "Obituaries: Walter Carey." UPPER ARLINGTON NEWS.
02.20.2002. "Lake Erie's artificial reef program." GLERL WEB SITE.
02.21.2002. "Seminar series and field course offered." GLERL UPDATE.
02.21.2002. "4th Annual Winter Lecture." OSU ONCAMPUS.
02.22.2002. "Experts share insight at Cleveland Show." CLEVELAND SPORT & OUTDOOR SHOW.
02.22.2002. "Hunting & Angling experts share insight." SPORT, TRAVEL & OUTDOOR SHOW.
02.25.2002. "Event, auction benefit programs at Lake Erie." OSU TODAY.
02.25.2002. "Local photography winners chosen." EASTERN MAUMEE BAY PRESS.
02.26.2002. "4th Annual Winter Lecture." TOLEDO BLADE.COM.
02.26.2002. "The Great Lakes-Still Great by any other Names." WWW.MICHIGAN.GOV.
02.27.2002. "FOSL Winter Lecture & Reception." OSU COLLEGE OF FOOD, AG, & ENVIRON SCI.
February/March 2002. "Summer Programs." NSTA REPORTS.

March

03.01.2002. "The low-down on Zebra and Quagga Mussels." WI'S UNDERWATER HERITAGE.
03.07.2002. "Lake Erie 2002." GREAT LAKES INFORMATION NETWORK.
03.08.2002. "Fishing, hunting, seminars highlight event's schedule." THE CHRONICLE-TELEGRAM.
03.08.2002. "Warmer water helps walleye fisherman." THE TOLEDO BLADE.
03.08.2002. "...seminar targets anglers." CLEVELAND PLAIN DEALER.
03.10.2002. "...Steelhead Seminar." COLUMBUS DISPATCH.
03.10.2002. "Fishing lore." LORAIN MORNING JOURNAL.
03.14.2002. "Chamber Launches Academy." AMER. CHAMBER OF COMMERCE EXE JOURNAL.
03.22.2002. "Young birder sees the world through pair of binoculars." CLEVELAND PLAIN DEALER.
03.23.2002. "Lake Erie 2002:An Citizens Update." MICHIGAN STATE UNIVERSITY EXTENSION.

03.24.2002. "Champaign festival to celebrate the unique." DAYTON DAILY NEWS.

April

04.01.2002. "Put-in-Bay, OH: More Than Just a Party Port." LAKELAND BOATING.
04.01.2002. "Kelley's Island Underwater Preserve." OSU EXTENSION LUCAS.
04.01.2002. "Lost Stories of the Lake Erie Islands." PUT-IN-BAY GAZETTE.
04.01.2002. "Strategic Plan for Experiential Tourism." LAKE ERIE COASTAL OHIO.
04.04.2002. "Local shrimp pond harvested." PIKE COUNTY NEWSWATCHMAN.
04.04.2002. "Walnut Grove Farms Shrimp." PORTSMOUTH COMMUNITY COMMON.
04.05.2002. "Northeast Ohio steelhead fishing gaining steam." ASSOCIATED PRESS.
04.09.2002. "OSU Trustees approve regional campus tuition..." OSU THE LATERN.
04.11.2002. "Stone Lab Open House set for April 25th." OSU ONCAMPUS.
04.11.2002. "Ottawa County selects chief of visitors Bureau." TOLEDO BLADE.
04.13.2002. "Fishing season is here." THE NEWS MESSENGER.
04.18.2002. "Volunteers help ready OSU's island lab." OSU TODAY.
04.22.2002. "Teen 'excited' over summer of science." HAMILTON-JOURNAL NEWS.
04.23.2002. "Here are some threatening species that live in the Great Lakes." CHICAGO TRIBUNE.
04.28.2002. "Lake Erie's allure." CLEVELAND PLAIN DEALER.
Spring 2002. "Steelhead: Lake Erie's best kept secret." LAKE ERIE WALLEYE.
Spring 2002. "Frosty's offers school groups pizza buffet." PUT-IN-BAY'S INSIDER.
Spring 2002. "Ecological Consequences of Zebra Mussels in North American Lakes." LAKELINE.
April/June 2002. "Sea Grant." OSU EXE HIGHLIGHTS LAKE COUNTY.

May

05.01.2002. "Stuckey, Osborn biological awardee." OSU BIO-OHIO.
05.01.2002. "Stone Lab Declares Amnesty." PUT-IN-BAY GAZETTE.
05.02.2002. "Toledo Chamber Launches Government Leadership Academy." ACCE INFORMATION.
05.12.2002. "Shipwreck Zone could make it for this summer." TOLEDO BLADE.
05.13.2002. "Genetically Enhanced Algae Recover Metals..." ENVIRONMENTAL NEWS NETWORK.
05.13.2002. "Metal-eating algae." EUREKALERT.COM.
05.14.2002. "Altered Algae eat more Metal to Clean Up Lake Erie." UNISCI.
05.23.2002. "The Islands and Surroundings." COASTLINES; OTTAWA CO. BEACON.
05.23.2002. "Stuckey honored with award." BLOOMVILLE GAZETTE.
05.23.2002. "Applications, impact of biotechnology grows." CHICAGO TRIBUNE.
05.23.2002. "Algae Mops Up Heavy Metals." GREAT LAKES RADIO CONSORTIUM.
05.30.2002. "Hereabouts." DAYTON DAILY NEWS.

June

06.01.2002. "May Elderhostel Proves Big Success." TRADER/GAZETTE.
06.01.2002. "Underwater Preserve Letters." KELLEYS LIFE.
06.01.2002. "The Not-so-great lakes." FIELD & STREAM.
06.01.2002. "Altered algae eat more metal. WASTE TREATMENT TECH NEWS.
06.04.2002. "Graduate seminar series. OSU SNR.
06.06.2002. "Get ready to be 'bugged'." PORT CLINTON NEWS HERALD.
06.08.2002. "Plankton lesions mystify scientists." CINCINNATI ENQUIRER.
06.10.2002. "Too much of a Good Insect?" GREAT LAKES RADIO CONSORTIUM.
06.10.2002. "Too much of a Good Insect?" GREAT LAKES INFORMATION NETWORK.
06.13.2002. "Stone Laboratory hosts guest lecture series." OSU ONCAMPUS.
06.14.2002. "As perch fishing gets hot, ice is nice to lock in flavor." PLAIN DEALER.
06.14.2002. "Large dead-zone in Lake Erie worries scientists." CLEVELAND PLAIN DEALER.
06.14.2002. "EPA to lead \$2 million intensive study." US NEWswire.
06.16.2002. "Lake Erie intruder may threaten smallmouth." COLUMBUS DISPATCH.
06.19.2002. "What's wrong with Lake Erie this time." TOLEDO BLADE.
06.19.2002. "Voinovich highlights efforts to preserve Great Lakes." BULLETIN'S FRONTRUNNER.
06.20.2002. "Summer Steelhead Angling Opportunities are now." GLIN ANNOUNCE.
06.23.2002. "Boaters urged to take steps to prevent mussels." ROSCOMMON COUNTY HERALD.

06.24.2002. "Tourist bureaus will show visitors eco-tainment." CRAIN'S CLEVELAND BUSINESS.
 06.24.2002. "Mayflies may yet unhatch mayhem." TOLEDO BLADE.
 06.24.2002. "Above the Lake Guardian." WCPN SPOTLIGHT NEWS.
 06.25.2002. "Here they come, Erie expert sees big turnout." PORT CLINTON NEWS HERALD.
 06.25.2002. "Mayfly Alert." THE NEWS-MESSENGER.
 06.27.2002. "Stone Lab thrives with help from its friends." ONCAMPUS.
 06.30.2002. "Fit for Feast." PORTSMOUTH COMMUNITY COMMON.
 Summer 2002. "Frosty's offers school groups pizza buffet." PUT-IN-BAY'S INSIDER.

July

07.01.2002. "West Nile Virus found in Ohio." OHIO GAME & FISH.
 07.03.2002. "Mayflies Composted to make Free Fertilizer." WOIO ACTION NEWS CLEVELAND.
 07.03.2002. "Port Clinton composts pesky piles of mayflies." TOLEDO BLADE.
 07.04.2002. "4-H kids to learn about Great Lakes." DAYTON DAILY NEWS.
 07.04.2002. "Lake Erie Walleye fishing." TOLEDO BLADE.
 07.04.2002. "Mayflies composted to make free fertilizer." ASSOCIATED PRESS.
 07.06.2002. "Heritage Hall." THE LAKESIDER.
 07.08.2002. "Lecture series underway." OSU TODAY.
 07.11.2002. "Goby: Nuisance or dinner?" ERIE TIMES NEWS.
 07.17.2002. "Sites investigated for artificial reef in Western Lake Erie." ASSOCIATED PRESS.
 07.19.2002. "Voters willing to pay to preserve land." THE NEWS-HERALD.
 07.22.2002. "Preservation effort might be tough sell." THE NEWS-HERALD.
 07.25.2002. "SL summer lecture series continues." OSU ONCAMPUS.
 07.30.2002. "Lake Erie information board." GLIN NEWS IN THE GREAT LAKES.
 July/September/August 2002. "Rock & Roll Walleyes." WALLEYE INSIDER.
 July/September/August 2002. "Sea Grant." OSU LAKE COUNTY EXTENSION.
 July/September/August 2002. "Projects." OSU LAKE COUNTY EXTENSION.

August

08.01.2002. "Halting the invasion." ENVIRONMENTAL LAW INSTITUTE.
 08.01.2002. "Guest Lectures on Gibraltar Island." PUT-IN-BAY GAZETTE.
 08.01.2002. "Marker dedicated on Gibraltar." PUT-IN-BAY GAZETTE.
 08.01.2002. "Hearing on Erie's 'Dead Zone'." US EPA GLINPO ACTIVITIES REPORT.
 08.01.2002. "Lake Erie info a mouse click away." PORT CLINTON NEWS HERALD.
 08.02.2002. "Student does research at Lake Erie." GREENE COUNTY NEWS SERVICE.
 08.02.2002. "Fishhook water flea makes way to Erie." GREENE COUNTY NEWS SERVICE.
 08.04.2002. "Wildlife officers play musical chairs." CLEVELAND PLAIN DEALER.
 08.05.2002. "Seeking Culprits for lake dead zone." GREAT LAKES RADIO CONSORTIUM.
 08.05.2002. "Anoxia in the Central Basin of Lake Erie." FEDERAL DOCUMENT CLEARING HOUSE.
 08.05.2002. "Lake Erie dead zone." SEA GRANT NEWS & NOTES.
 08.05.2002. "Monday PM SHOW: Eight is News at Six." WJW-TV FOX 8 CLEVELAND.
 08.06.2002. "Voinovich wants funds to study central basin." PORT CLINTON NEWS HERALD.
 08.06.2002. "Senator tired of dead weight." PORT CLINTON NEWS HERALD.
 08.06.2002. "Ohio Sea Grant director testifies." NOAA, THE INFORMER.
 08.06.2002. "Dead Zone' growing in Lake Erie." TOLEDO BLADE.
 08.06.2002. "Researchers suspect tiny clam..." CLEVELAND PLAIN DEALER..
 08.06.2002. "Zebra mussels get second billing to quaggas." WOIO ACTION NEWS CLEVELAND.
 08.06.2002. "Zebra mussels get second billing to quagga in Lake Erie." ASSOCIATED PRESS.
 08.06.2002. "Tuesday AM SHOW: Eight is News This Morning." WJW-TV FOX 8 CLEVELAND.
 08.07.2002. "Scientists investigate toxin, mussel threats in Lake Erie." CBC NEWS CANADA.
 08.08.2002. "Lake Erie dead Zone becomes growing concern." CLEVELAND PLAIN DEALER.
 08.08.2002. "Low Erie oxygen may be from clam." DETROIT FREE PRESS.
 08.12.2002. "'Living' Classroom: Island lab monitors lake's health." RFD NEWS.
 08.13.2002. "Lab offers beach front experience, college credit." OSU LANTERN.
 08.15.2002. "4-H summer trips." DAYTON DAILY.
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COLLABORATION AND SPECIAL PROJECTS

From January 2002 – September 2003, Ohio Sea Grant Communications had the opportunity to collaborate with other agencies and constituents on several special projects at the state and regional levels.

State Legislature/Congressional Day: On July 19, 2002, Ohio Sea Grant and its private sector advisory committees hosted the 14th Annual State Legislature/Congressional Day on Lake Erie. Elected official and policy-makers 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 provided logistical support, displays, and information packets for this event. Note: On June 9, 2001, a "mini Legislature Day" was held for newly elected officials at Stone Laboratory. The Day followed a similar format as the 2000 event, and focused on individuals new to the State Government.

In 2001 and 2003, we partnered with State Representative Chris Redfern and State Senator Randy Gardner to produce Put-in-Bay Legislative Days. Each event attracted over 40 representatives.

Web Accessibility Workshop: In response to requirements from National Sea Grant that all Sea Grant web sites should be Section 508 compliant, (a requirement for federal programs that is similar to the Americans with Disabilities Act web accessibility requirements), the Communications Coordinator organized a web accessibility workshop for programs receiving federal funds at The Ohio State University. The workshop was held on March 7, 2002 and was co-sponsored by the University's Office of Disability Services. The workshop was geared towards principal investigators and web designers working on federally-funded projects and was structured into two sessions. A morning general session for both investigators and designers covered the 508 compliance standards and requirements. In the afternoon, a technical session for web designers featured a hands-on demonstration about accessible design requirements. Forty-one people registered for the general session, and 26 for the technical session.

Lake Erie Information Discussion Board: In July 2002, Ohio Sea Grant launched the *Lake Erie Information Discussion Board*. The Board was developed to offer plain-talk answers to science inquiries, and provide a forum for discussing Lake Erie-related concerns. The Board is monitored by Ohio Sea Grant Extension Specialists and Agents to ensure a prompt response to questions. Since its inception, the Discussion Board has addressed questions about the Lake Erie "dead zone," walleye fishing, perch and zebra mussels, sea lampreys in Lake Erie, lake temperature, threats to Lake Erie, and many other topics. Response to the Board has been very positive as evident in the following comment: "I want to thank you all for a great site and source of information. I have really

enjoyed following the conversations on your site and learned a lot.” The Board can be accessed from the Ohio Sea Grant’s main home page, or from www.sg.ohio-state.edu/discus.

Guides to Lake Erie’s Historic Shipwrecks: In order to promote ecotourism and recreational opportunities for the diving community and others interested in maritime history and natural history, Ohio Sea Grant created underwater guides for three Lake Erie shipwrecks: *The Adventure*, *W. R. Hanna*, and *F. H. Prince* (note these were put in *italics*). Packaged as a set in a waterproof envelope, each sturdy, plastic, waterproof slate measures 9.5" x 6.25" and features a site map, schematic diagram, diving information, vessel data, and ship history. The guides are essential for anyone interested in Lake Erie, shipwrecks, maritime history, or underwater archaeology. Available since August 2002, the guide’s production was funded by Ohio Sea Grant. Additional assistance was provided by the Great Lakes Historical Society, Lake Erie Shipwreck Research Center, Ohio Department of Natural Resources, Ohio Coastal Management Program, Ohio Historical Society, and Bowling Green State University. The information provided in the guides is the result of hundreds of hours of archaeological and historical research conducted by the staff of the Lake Erie Shipwreck Research Center in conjunction with volunteers from the Maritime Archaeological Survey Team (MAST). In 2003, the Guides earned the “Blue Ribbon Award” in the “partnership” category at the National Sea Grant Week Conference.

Ohio Department of Natural Resources Division of Wildlife Aquatic Nuisance Species (ANS) Steering Committee: The Communications Coordinator works directly with the coordinator of the ANS Management Plan for the State of Ohio. Communications has helped develop public information materials on ANS prevention. Most recently, Ohio Sea Grant materials were included in a permanent wall-size display that the ANS Coordinator created at the Columbus Zoo. Other recent projects include a zebra mussel alert card (wallet size) focusing on in-land waters in Ohio.

Ohio Sea Grant Display: A variety of different displays are produced each year for use by our Director, Extension Specialists, Communications staff, and others at boat and sport shows, fairs, conferences and as stand-alone displays at other facilities. The displays at the winter sports shows are 20 feet wide. Display panels have featured a variety of issues: aquatic nuisance species, zebra mussels, fish advisories and sampling, Areas of Concern/Remedial Action Plans, seafood safety, clean boating, economic impacts, artificial reefs, water quality, recreation, and Sea Grant program information. In 2002, two new display panels were created on the topics of Lake Erie water levels and the steelhead trout fishery. An additional display panel was added in 2003 featuring the Lake Erie Dead Zone. This display was used by the Director in testimony to the U.S. Senate.

Lake Erie Nature and Science Center (LENSC): Ohio Sea Grant has been the recipient of permanent exhibit space at the Lake Erie Nature and Science Center (LENSC) in Bay Village, Ohio. LENS is a non-profit organization that recently completed a \$2.3 million renovation and expansion project. Located within Huntington Reservation, which is part of Cleveland Metroparks, LENS offers educational programs, wildlife rehabilitation,

and exhibits that "strive to involve individuals of all ages from a diverse cultural and economic community in learning to care for the Earth." LENSCH was founded in 1945, and has been located on Huntington Reservation since 1960.

The Communications Coordinator and Graphic Designer work with Sea Grant Extension District Specialist in Lorain County to develop the displays. Displays have featured artificial reefs, aquatic nuisance species, Lake Erie food webs, water levels, the steelhead trout fishery, and the Lake Erie Dead Zone. With each exhibit Communications provides related fact sheets and other materials for center visitors. The display is usually changed twice a year.

Ohio Clean Marinas Program: In 2003 Ohio became one of 18 states that will participate in the Clean Marina Program, a voluntary, incentive-based program that encourages marina operators and boaters to protect coastal water quality. Ohio Sea Grant has been asked to lead the program for Ohio and to house and maintain the program's web site and create all educational materials. Communications worked with the state's program facilitator to develop an educational display for boat shows, along with writing and designing two brochures, a program logo, and a Guidebook to be used in education workshops.

Great Lakes Fishery Leadership Institute: The Ohio Sea Grant program 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.

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 features Ohio Sea Grant's web site address and information about the Ohio Sea Grant Lake Erie Information Discussion Board so that calendar recipients will have a direct source to go to for current and accurate Lake Erie and fishing-related concerns. The 6000 Twine Line readers received a calendar within their Nov/Dec 2003 issue. The remaining copies will be distributed at the Cleveland-area boat and sport shows, and other events.

Student Intern Writer: One student writer intern has been hired for 2003 to assist in the writing and editing of the newsletter. This 10-hour per week internship is a partnership with the Ohio State University School of Natural Resources and Ohio Sea Grant. Besides learning and applying basic editing skills, this student receives writing, graphic layout design and publication experience. At the end of December 2003, the student will have completed four Sea Grant research summaries, one of which will be published in the Mar/Apr 2004 issue of *Twine Line* as a "Research Review" article.

Appendix E

Extension

Accomplishments 2002 & 2003

Activities 2002 & 2003

Extension Agent Accomplishments 2002

Ohio Sea Grant Extension Program Agent Accomplishments 2002

I. ECONOMIC LEADERSHIP

A. Advanced Technology for Commercial Products and Processes

- 1. Commercial Biotechnology**
- 2. Environmental Technology**

B. Seafood Production

- 1. Commercial Fisheries**
- 2. Sustainable Aquaculture**

U.S. Rep. Marcy Kaptur (Toledo) pledged increased support for Ohio aquaculture development following an exploratory session coordinating her office with the Ohio Aquaculture Association (OAA), the Agriculture Business Enhancement Center and the Ohio Division of Wildlife. To meet the goal of increased funding support for aquaculture research and development in northwest Ohio, Cong. Kaptur assigned an aide to work closely with OSU and OAA and agreed to seek funding for future development. (Snyder, January 2002)

3. Seafood Technology

C. Coastal Economic Development;

1. Coastal Business Development

Lucente received a \$1,500 professional development grant from The Ohio State University Sea Grant College Program to attend Business Retention and Expansion International's (BREI) Consultant Certification Course and Conference. Lucente is now recognized by BREI as a Certified Consultant in Business Retention and Expansion. Lucente is now better prepared to provide technical assistance to coastal communities in northwest Ohio and throughout the state seeking to retain or expand business operations. (Lucente, May 6-11, 2002)

As a direct result of an Ohio Business Retention and Expansion program taught by Lucente and other OSU Extension staff, Ottawa County will move forward with plans to conduct a county-wide business retention and expansion program with an emphasis on retail and tourism. Eighteen Ottawa County Business Retention and Expansion Task Force Members were trained and will conduct business surveys in their community as part of this Lake Erie coastal county's business expansion and retention effort. (Lucente, Weidenheft, and Malone, May -August 2002)

-Fishing

Ohio Sea Grant successfully competed for \$30,000 in federal funds as part of the Regional Fisheries Extension enhancement grant (Great Lakes Sea Grant Regional Fisheries Extension Enhancement Work Plan - Great Lakes Fisheries Leadership Curriculum Development,) A/EP-5 for 2002-2003. As a result the 2002 Great Lakes charter captains survey instrument was developed and finalized with input from the Great Lakes Sea Grant network and local Lake Erie charter captains. Return rates for the responses to the 2002 Great Lakes charter captain's survey were 45% for Wisconsin (116/359), 59% for Minnesota (26/44), 43% for

Pennsylvania (12/28), and 33% (6/18) for Lake Champlain. (Lichtkoppler, Reutter, Snyder, & Kelch, December 2002)

Ohio Sea Grant successfully competed for \$10,000 in federal funds as part of the National Fisheries Extension enhancement for 2003 (Great Lakes Sea Grant Network Fisheries Extension Enhancement - Great Lakes Fisheries Leadership Institute 2002-2003. Sixteen Great Lakes Sea Grant program leaders, extension agents and communicators met in Cleveland, Ohio and developed a coordinated work plan to implement the Great Lakes Sea Grant Fisheries Extension Enhancement grants for fisheries curriculum development and the Great Lakes Fisheries Leadership Training Institute. (Lichtkoppler, Reutter, Snyder, & Kelch, September 2002)

Ohio Sea Grant successfully competed for \$9,988 from the Lake Erie Protection Fund Small Grant program and garnered \$2,100 in private donations for a project entitled Steelhead Anglers Survey in Lake Erie Tributaries. The 2002-2003 Steelhead Angler survey instrument for Ohio Lake Erie Tributary Streams was developed with input from OSU economics professor, Dr. Brent Sohngen, local steelhead anglers and staff of the Fairport Fisheries Research Unit of the ODNR, Division of Wildlife. The initial response to the 2002-2003 Steelhead Angler survey is 76% (176/231). (Lichtkoppler & Kelch, December 2002).

Ohio Sea Grant completed a reprogramming of \$20,000 in additional fisheries extension effort and qualified for an additional \$15,000 in federal funds for expansion of Ohio Sea Grant fisheries extension work. (Lichtkoppler, Reutter, Snyder & Kelch, September 2002)

Snyder developed and presented the 21st Annual Ohio Charter Captains Conference in Sandusky. Kelch and Lucente made presentations at this conference. Over 256 licensed captains and 10 speakers participated in the Conference. Of 79 captains completing a post-program evaluation, over 71% said this conference series has improved profitability in their businesses. Changes in business practices based upon information received were claimed by almost 85%. Implementation of information received to improve operating methods was claimed by 95% percent. (March 02)

Forty-seven licensed Michigan charter captains learned methods to diversify their fishing operations through presentations by Snyder at the Michigan Charter Boat Association annual conference in Dundee, Michigan. (October 2002)

Meetings with the ODNR/Wildlife and representatives from the Lake Erie Charterboat Association have resulted in a new approach to artificial reef structures in western Lake Erie. Kelch and specialist Fred Snyder provided information and input resulting in the relocation of western basin artificial reefs closer to Toledo and in areas previously disturbed. This provides opportunity for grant dollars in the name of habitat rehabilitation. ODNR/Wildlife is currently investigating grant possibilities. (Kelch & Snyder, 2002)

-Coastal Recreation

Ohio Sea Grant was one of the founding members of the not for profit, Lake Erie tourism development organization, Lake Erie Coastal Ohio (LECO). LECO was organized to

improve the coastal tourism economy and advocate the preservation of Lake Erie's natural, cultural and historic resources. Extension workers from up to 34 states learned more about the LECO through the paper, "Conservation through Tourism: Nature Based Tourism on an Urban Coastline" presented by Lichtkoppler at the 2002 National Extension Tourism Conference, held at Traverse City, Michigan. (Huntley, Lichtkoppler, Snyder and Packer 2002)

Lucente distributed over 20,000 copies of the 2002 Western Lake Erie Waterfront Guide he developed with a \$7,480.00 grant from the Lake Erie Protection Fund. The guide is used to promote cultural and eco-tourism in the Western Lake Erie Basin. Lucente received first place in the Epsilon Sigma Phi Tools for Teaching Awards in Recognition of Outstanding Achievement in an Extension Educational Program for the publication of the 2002 Western Lake Erie Waterfront Guide. (December 2002)

The Ohio Division of Wildlife agreed to launch a feasibility study of a Maumee Bay artificial reef following an effort by Lucente, Snyder and Kelch to initiate a cooperative program with the Lake Erie Charter Boat Association and Ohio Dept. of Natural Resources. This multiagency effort will seek funding to develop artificial fishing structures in the Toledo area as a habitat mitigation project. (September 2002)

- Marine Trades

Kelch has served on the Lorain County Visitor's Bureau (LCVB), Board of Directors since 1983. During 2002, over 150,000 Lake Erie angling brochures developed by the agent were distributed throughout the state. Additionally several articles concerning Lake Erie angling appeared in the mass media as a result of an outdoor writer tour developed by Kelch in cooperation with the LCVB.

Kelch serves on the Governor Taft's appointed Submerged Lands Advisory Council (SLAC). SLAC advises the Ohio Department of Natural Resources (ODNR) in issues regarding submerged lands. Currently, this council continues to work with the issue of placement of mooring buoys on historically valuable shipwrecks in Lake Erie. Kelch also serves on the Kelleys Island Underwater Preserve planning committee, and represents the governor's Submerged Lands Advisory Council in this position (Kelch, 2002)

2. Coastal Community Development

Over 430 Lake County voters responded to the *Land Use Issues and Concerns in Lake County* survey conducted in January - March 2002. This resulted in *Land Use Issues and Concerns in Lake County: Survey Results* by Lichtkoppler, F.R., R. Stanbro, and T.W. Blaine. The Lake County Engineers office utilized data from the report to promote a countywide storm-water utility as an efficient way to meet EPA Phase II storm-water management requirements. (November 2002))

Twenty-nine elected officials and local board and commission members received certificates of completion from the first annual 10-week course in local government leadership development. Lucente formed a partnership with the Toledo Area Chamber of Commerce and the Ohio State University Extension Service (OSUE) to develop the Toledo Local Government Leadership Academy. Lucente and Dr. Donald Lacy from OSUE created a curriculum that included duties and responsibilities of elected officials, ethics of public

officials, conducting effective meetings, technology in local governments and more. As a direct result of the ten-week course, participants increased their overall knowledge in local government by 82% during the leadership academy. (Lucente and Lacy June 2001-March 2002).

Fifty-five participants learned about the model curriculum for local government leadership development from the presentation, "Local Government Leadership Academy: A Model Curriculum" given at the National Community Resource Economic Development Conference in Orlando, FL during February 22-25, 2002. National interest has been shown for this program to be used in other states. (Lucente and Lacy, Feb. 22-25, 2002)

Over 35 participants learned more about local government leadership issues at presentations made by Lucente to the Putnam County, Ohio Leadership Council on March 6, 2002 and to the Toledo Area Chamber of Commerce's Leadership Fund Committee in May 2002.

As a result of the annual OSU Extension "Leadership Roundtable" roundtable discussion, 18 Ohio State University Extension Agents will be better prepared to develop leadership education in their respective areas of the State of Ohio. Lucente facilitated discussion on different leadership styles and models of curriculum geared toward enhancing the decision-making styles of local area leaders. (J. Lucente and N. Kukay, May 2002)

As a result of presentations and personal contacts made by Lucente and Dr. Donald Lacey over 95 Extension professionals, county commissioners and key leaders in Ohio, Kentucky and Arizona learned more about the Toledo Local Government Leadership Academy Model at the Association of Leadership Educator's (ALE) Conference in Lexington, Kentucky (July 12-13, 2002), and at the Ohio State University's County Commissioners Days in Perrysburg, Ohio. (August 21, 2002).

The City of Port Clinton made significant progress toward establishing a municipal transient marina in a project launched by Ohio Sea Grant Extension. Snyder worked with other members of the Port Clinton Transient Marina Core Team (appointed by Port Clinton Mayor Thomas Brown) to conduct public forums and develop and assess alternative design plans. Eight alternative transient marina designs were presented with three potential final marina designs being selected for engineering, environmental and fiscal analysis. (Snyder January-December 2002)

At the request of Luther Norman, city recreation director, Kelch provided guidance and technical information for the renovation of a 5-acre lake within the City of East Cleveland. The purpose of the renovation was to provide angling opportunity for inner city youth and handicapped individuals. Recommended fish stocking provided inner city youth and handicapped individuals with angling opportunity in 2002, with lake renovation to begin in late fall. (Kelch, 2002)

Forty-eight Economic Development Specialists from Northeast Ohio learned more about protecting green space and quality of life issues at an Ohio Sea Grant video teleconference program. Representatives from the city of Portland, the Metro Regional Government and the Oregon State Sea Grant program provided insights on how the community successfully merged the need to continue to develop in order to provide job growth and opportunities for

its residents while balancing environmental concerns. This program was created in response to a survey of Economic Development Network members. (Williams, September 2002)

New Jobs & Investments as a result of William's business R&E efforts in 2002 included:

	Investment	Jobs
ASAP Foods	\$500,000	8
NSL Analytical	\$150,000	4

Fifty-nine executive volunteers contacted 1,026 companies and identified 27 potential business expansion projects in 2002. The volunteers were trained by Williams to interview executives from companies outside of Ohio regarding their potential expansion plans (Williams, 2002).

Williams has successfully utilized electronic business retention surveys in four Northeast Ohio coastal communities (Brecksville, Brunswick, Euclid, and Bedford Heights) to identify business R&E opportunities. A total of 128 companies have responded to the electronic business retention surveys (Williams, 2002).

The city of Independence agreed to host an Ohio State University Business R&E program as a result of an educational effort by the agent. Fifty-Nine community economic development specialists learned more about the OSU R&E program at the agent's Economic Development Network meeting (Williams and D. Malone, January 2002).

Four businesses were identified for potential business expansion at the Ohio Economic Development Council annual Telemarketing business development event in Columbus, Ohio April 26, 2002. Williams chaired this event for the Council. These four prospects will receive assistance on their expansion projects (Williams, 2002).

3. Revitalize Marine Infrastructure

The Grand River Association (GRA) utilized Ohio Sea Grant 1998 Boating Survey data on Lake County boating to help justify \$230,000 in state ODNR funds to dredge 32,000 cubic yards of material to maintain recreational boating on the upper channel of the Grand River in Lake County Ohio. The agent worked with the GRA for almost two years on recreational boating problems due to lower Lake Erie lake levels. This project was completed September 30, 2002. (Lichtkoppler)

II. COASTAL ECOSYSTEM HEALTH AND PUBLIC SAFETY

A. Coastal Ecosystem Health

1. Coastal Ecosystems

Over 38,739 acres of grass, shrub and tree filter strips and conservation wetlands were established in northern Ohio in the Lake Erie Buffer Program. The Lake Erie Buffer team, which includes Ohio Sea Grant Extension, achieved the planting and implementation of these conservation efforts that will retain soil, filter nutrients and contaminants, and reduce pollution to Lake Erie. (Snyder, January -December 2002)

Over 75 individuals owning private marshland habitat, learned more about aquatic nuisance species, including the zebra mussel, purple loosestrife and the common carp, and

preventative management practices at the League of Ohio Sportsmen Wetlands Conference in Cleveland. (Kelch, April 13, 2002)

2. Coastal and Great Lakes Habitats

Snyder, F.L., P.M. Charlebois, J.L. Gunderson, D.A. Jensen, M. Klepinger and R.E. Kinnunen. 2002. Potential dispersal of aquatic nuisance species by live bait in the Great Lakes region. 11th International Conference on Aquatic Invasive Species, Washington, D.C. February 25 - March 1, 2002.

Jensen, D.A., J.L. Gunderson, M.R. Klepinger, P.M. Charlebois, K. Tepas, R.E. Kinnunen and F.L. Snyder. 2002. Angler knowledge, behavior, and risk for spreading aquatic nuisance species based on surveys in five Great Lakes states. 11th International Conference on Aquatic Invasive Species, Washington, D.C. February 25 - March 1, 2002.

Snyder presented Ohio and Lake Erie concerns at a Great Lakes Sea Grant Network Aquatic Nuisance Species pre-proposal meeting in Chicago that led to proposal submissions among nine Great Lakes states. Through this process Ohio Sea Grant Extension has submitted Ohio portions of proposals to the National Sea Grant Program totaling over \$165,000. (Snyder, Lichtkoppler, Kelch, November 2002)

3. Sustainable Development

New volunteers were trained to assist with a cooperative effort between ODNR/Wildlife and Ohio Sea Grant in tagging smallmouth bass. Volunteer anglers catch, record data, and release smallmouth bass in the vicinity of central basin artificial reefs. Data has been used by the ODNR in determining fish movements, life history and catch/release mortality. This is the fourth year of this cooperative effort. (Kelch April - June 2002)

B. Public Safety

1. Coastal Hazards

The U.S. Army Corps of Engineers conducted a two-month cleanup of unexploded military ordinance near the Toussaint River following a meeting of local landowners and Ohio Sea Grant Extension. Snyder provided historical information on the economics effects upon, and current concerns of local marine businesses regarding spent military ordinance in shoreline areas to justify cleanup expenditures. (January -July 2002)

2. Safety at Sea

Working with Ohio Sea Grant Communications staff Karen Ricker and Cindy Hayer Allison, and members of the Marine Archaeological Survey Team (MAST), the district specialist assisted in the development and production of Lake Erie's first underwater **'Guides to Lake Erie's Historic Shipwrecks'**, OHSU-GS-020. These educational slates will assist divers in safely locating the wreck site, and in identifying shipwreck features. The slates will also aid in the protection and preservation of the wrecks. (Kelch, August 2002)

III. EDUCATION AND HUMAN RESOURCES

A. Provide a Technically Trained Workforce

1. Scientists and Engineers

Lichtkoppler and Helen Domske of NY Sea Grant organized a seminar session at the International Association for Great Lakes Research 45th Conference on Great Lakes Research on June 3-6, 2002 at the University of Winnipeg, Manitoba, Canada. Extension workers and scientists learned more about extension methods from the seminar. Two papers were presented by the agent at IAGLR 2002: (1) *Ohio Sea Grant Extension: Program, Process, Progress* and (2) *Linking Coastal Citizens to University Researchers: Two Examples from Sea Grant Extension*.

Over 100 scientists, agency officials and citizens learned more about botulism at the Botulism in Lake Erie Conference in Buffalo, NY on February 28, 2002 co-sponsored by the NY, PA and OH Sea Grant programs. A draft plan for research needs was developed and scientists were able to network on the transfer of botulism information to citizens via Sea Grant Extension agents in NY, PA and Ohio. (H. Domske, NY; E. Obert, PA; & F. Lichtkoppler, OH)

The 14 students enrolled in the 2nd Annual Ichthyoplankton Identification Workshop at Stone Laboratory received state-of-the-art training in Great Lakes larval fish identification with the use of specimens examined under the microscope, visual aids and the most current guides. (Hageman; September 2002)

Twelve OSU students each received three college credit hours by completing Snyder's course entitled *EEOB 125, Introduction to Aquatic Biology*, under the OSU Dept. of Ecology, Evolution and Organismal Behavior at the F.T. Stone Laboratory. (August 2002)

Thirty-five NOAA scientists learned more about artificial reefs and the role they play in fish habitat restoration at as Kelch was invited to present the results of recent Lake Erie artificial reef research projects to scientists at the Great Lakes Environmental Research Laboratory, a NOAA facility, in Ann Arbor, Michigan (Kelch, February, 2002)

2. Resource Managers

Over 135 professionals learned more about Lake Erie fisheries and aquatic nuisance species during Michigan Sea Grant's Annual State of the Lakes Forum in Dundee, Michigan. The audience at this invited presentation included resource managers, conservation and angling club representatives, charter captain association representatives, and elected officials. A local radio program interview after the formal presentation taught thousands more about Lake Erie. (Kelch, March 2002)

3. Technical Training

As the F.T. Stone Laboratory manager, Hageman assisted 23 investigators and 53 students and technicians from 15 agencies and universities in their work on 22 research projects at Stone laboratory in 2002.

Ohio Sea Grant and the F.T. Stone Laboratory hosted the Association of Diving Contractors workshop, including displays set up by vendors from 10 states. R.O.V. and underwater welding demonstrations allowed over 40 participants to practice new skills obtained at this workshop and become updated on new underwater dive safety rules and technology. (Hageman)

Ten graduate students learned about economic development and tourism in the Lake Erie region as Lucente, the agent in Toledo, spoke to Dr. Bill Obenour's Policy and Tourism Development graduate class at Bowling Green State University. (Lucente, July 2, 2002)

Eighty-two people learned the ins and outs of "Networking in Local Government Grantsmanship" as Lucente presented at a workshop entitled "Great Grants, Great Funding" sponsored by the Toledo-Lucas County Library. (Lucente, October 2002)

Thirty-eight economic development specialists learned more about zoning law at a forum organized by the agent and taught by Jim Foster from the Miami Valley Transportation Authority. (Williams, November 2002)

Forty-three people including Executive Board Members, and employees of the Resident Empowerment Organization (REO) of the Cuyahoga Metropolitan Housing Authority (CMHA) learned more about "Changes and Challenges in the Workplace 2002" taught by Williams in December 2002.

Twelve Cleveland Metropolitan Housing Authority Residential Empowerment Managers completed the most recent Business Excel training provided by the Ohio State University Extension Small Business Team. on January 31, February 7 & 14, 2002. This is the third group from REO that have participated in this training program.

A total of 75 graduates have learned job skills and fifty six have been placed in jobs as a result of an Ohio State University Extension's partnership with WIRE Net in its Pre-employment Training Program (PET). A total of 96 hours of classroom instruction has been provided each quarter. The purpose of PET is to teach manufacturing job-training skills to unemployed and underemployed residents of Cuyahoga County. Williams provided 27 hours of classroom instruction. focused on the following subject areas: Money Management, Introduction to Computers, Effective Team Building.

Thirty-six economic development specialists attended a forum on Tourism Retention and Expansion programming moderated by the agent at the Business Retention and Expansion International annual meeting in Memphis TN. Attendees critiques of the session, said this session was the best of the conference. (Williams, May 8-13, 2002)

B. Assure an Environmentally and Scientifically Informed Citizenry

1. Pre-college Education

Over 846 elementary through high school students learned more about Lake Erie, wetland ecology and/or aquatic science at 20 educational programs conducted by Snyder in 2002.

2. Informal Education

Legislators and their representatives from two U.S. Senate offices, one U.S. House office, three Ohio Senate offices and 11 Ohio House offices joined Sea Grant and other Ohio State University administrators and personnel, advisory committee members, boat captains and guests for the 14th Annual Congressional/Legislature Day on Lake Erie, July 19, 2002. 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. (Snyder, Lichtkoppler, Kelch, Hageman, Lucente, Williams and Reutter)

The *Lake Erie Discussion Board*, a new Web site offering question-and-answer Lake Erie discussion with the general public was launched to provide a user-friendly technical information source. This board has received dozens of inquiries and follow-ups since its recent inception. (Snyder, Kelch, Hageman, Lichtkoppler, August-December 2002)

Some 180 participants of the International Elderhostel program were engaged in the Stone Laboratory aquatic science workshop program in 2002. According to exit surveys, the science cruise experience, lab sessions and historical tour of Gibraltar Island were rated as one of the most popular activities of their week at Put-in-Bay. (Hageman)

The Stone Lab spring and fall aquatic science workshop program introduced Lake Erie biology to 377 elementary, 2048 middle school, 975 high school, 72 college and 283 adult students from 153 groups in 2002 (Hageman).

Dr. John Rohrer, OSU Extension Assistant Director for Community Development, approved the Operations Support Budget for Ohio Sea Grant Extension for 2003-2003 in the amount of \$74,771. This will continue OSU Extension financial assistance for supplies and secretarial support for four Sea Grant agents. (Lichtkoppler & Reutter, November 2, 2002).

Ohio Sea Grant received a federal grant, A/EP-1, for OSU Extension Sea Grant March 1, 2002 to February 28, 2003 in the amount of \$344,830. This will partially fund five OSU /Sea Grant Extension agents. Ohio Sea Grant also received a federal grant, A/EP-4, to partially fund the community development agent in Toledo from March 1, 2002 to February 28, 2003 in the amount of \$50,000. (Lichtkoppler, Snyder, Rohrer, & Reutter)

Ohio Sea Grant Extension Agents taught at the Sea Grant Exhibit (developed with the Ohio Sea Grant Communications Program) during the 2002 Mid-America Sail and Power Boat Show (January 18-27) and the 2002 Cleveland Sport, Travel and Outdoor Recreation Show (March 16-24). Hundreds of patrons learned more about Lake Erie at seminars taught by Kelch. Hundreds of angler and boater questions were answered and show patrons acquired additional information from the over 10,500 Sea Grant fact sheets that were distributed at the two shows. (Kelch, Lichtkoppler, Lucente, Williams & Snyder)

Over 100 youth and adults learned more about Lake Erie fisheries, fisheries biology, fish contaminants, handling and preparation, aquatic nuisance species and angling techniques during educational sessions taught by Kelch during the 20th Ohio 4-H Sea Camp. The event was conducted July 1st-5th at the Kelleys Island 4-H Camp, with the original Sea Camp concept and camp developed by Ohio Sea Grant in 1983. (Kelch, July 2002)

Presentations to 30 area conservation organizations, interest groups scuba diving clubs taught over 1,484 individuals more about lake levels, steelhead angling, fish consumption, changes in Lake Erie, aquatic nuisance species, artificial reefs, smallmouth bass movements and biology, and underwater preserves/shipwreck mooring buoys for shipwreck protection. One sportsman's organization, the North Coast Black Bass Anglers Association, was introduced to the cooperative smallmouth bass tagging effort, resulting in volunteers for bass tagging in

2002. This group of African American anglers also showed interest in becoming involved with The Ohio Sea Grant Program, and as a result, two club members have volunteered to serve on the specialist's Advisory Committee and have become involved with outreach educational activities. (Kelch, 2002)

Scores of prospects visited the North Coast Business Alliance exhibit booth at the National Manufacturing Trade Show in Chicago in, March 17-21, 2002 and the Society of Automotive Engineering show in Detroit MI. March 3-7, 2002. Williams was the co-chair of both booths and organized the exhibits at the Shows.

Ohio Sea Grant Agent Networking in 2002

Professional service by Hageman includes: 1) Ohio Chapter, American Fisheries Society-"Ohio Wetlands" Chairman; 2) Pheasants-Forever, State Chapter-Legislative Liaison; 3) Pheasants-Forever, Erie-Ottawa-Sandusky Co.Chapter291-Secretary; 4) Ducks Unlimited, Erie Islands Chapter 094-Membership Co-chairman; and, 5) Ohio Bi-Centennial Celebration, Planning Committee for Put-in-Bay.

Professional service by Kelch includes: (1) Member, Submerged Lands Advisory Council (Governor appointed); (2) Member, Kelleys Island Underwater Preserve Planning Committee (state appointed); (3) Member, Lorain County Visitors Bureau Board of Directors; (4) Northeast District Faculty Representative, OSU College of Food, Agriculture and Environmental Sciences Faculty Council; (5) Member, Director's Internal Advisory Council, Dr. Keith Smith, Director, OSU Extension; (6) Member, OSU Extension Northeast District Promotion and Tenure Committee; (7) Chair, Northeast District Promotion and Tenure Committee, 2003; and , (8) Member, OSU Extension Revenue Generation/Budget Reduction Committee.

Professional service by Lichtkoppler includes: (1) Member & Secretary of the Mentor Marsh Board of Management; (2) Member & Secretary of the Executive Committee of Lake Erie Coastal Ohio (LECO); (3) Chair of the LECO Byways Committee; (4) Chair, Wetlands & Biodiversity Committee of the Marsh Area Regional Coalition; (5) Member International Association for Great Lakes Research - Outreach Committee; (6) Member Coordinating Committee Ashtabula River Partnership; and, (7) Member OSU College of Food, Agriculture and Environmental Sciences Department of Extension Promotion and Tenure Committee. (Lichtkoppler, 2002)

Professional service by Lucente includes: (1) Member of Northwest Ohio Regional Economic Development Association; (2) Member, Maumee River RAP; (3) Member, Maumee RAP Public Outreach and Education Committee; (4) Member and Economic Development Chair, North Central Ohio Regional Economic Development Association, Member of Northwest District Extension Program Impact Planning Committee; (5) Member, Kelley's Island Underwater Preserve Planning Team; (6) Board Member, Ohio Extension Agent Association, West District; and, (7) Member, Great Lakes Sea Grant Network Program Planning Committee.

Professional service by Snyder includes: 1) Chair of the OSU College of Food Agriculture and Environmental Sciences Department of Extension Promotion and Tenure Committee in 2002; (2) Chair of the Portage River Basin Council's Recreation and Wildlife Committee;

(3) Member - Board of Directors Lake Erie Coastal Ohio; 4) Member of the LECO Board and Staff Development Committee; 5) Member of the Northwest District Extension Spring Conference Planning Committee; 6) Member of the Past Presidents Committee of the Outdoor Writers of Ohio, Inc.; 6) Member, Professional Development Committee, Ohio Extension Agents Association..

Professional Service by Williams includes: 1) Member of Ohio Development Association; 2) Member of Cuyahoga County Remedial Action Social Committee; 3) Member of North Coast Black Bass Association, and, 4) Board Member, Ohio Extension Agent Association.

Extension Agent Accomplishments 2003

Ohio Sea Grant Extension Program

Agent Accomplishments 2003

I. Economic Leadership

A. Advanced Technology for Commercial Products and Processes

1. Commercial Biotechnology
2. Environmental Technology

B. Seafood Production

1. Commercial Fisheries
2. Sustainable Aquaculture
3. Seafood Technology

C. Coastal Economic Development;

1. Coastal Business Development

- Fishing

The annual Ohio Charter Captains Conference has been described by *Charter Industry Trade News* as the largest conference of its type held in the United States. Over 160 licensed Ohio charter boat captains gained knowledge and skills to improve their business operations at the 22nd Annual Ohio Charter Captains Conference, organized by Snyder. Among captains responding to an evaluation, 92 percent said they use information gained from the annual conference to improve their fishing and business operations. Modifications to operating practices based upon the conference were claimed by 83 percent of captains. Increase profits because of this conference were claimed by 62 percent of responding captains. (Snyder, Kelch, Hageman, and Lucente, Mar 2003)

Twenty-two Michigan charter boat captains gained information to improve their charter operations through presentations by Snyder at the Western Basin Charter Boat Association annual meeting. (Mar 2003)

Outdoor Writers of Ohio, Inc., best Magazine How-to Article (2nd place) awarded to Snyder for *Walleye Anglers Keep Pace with Changing Lake Erie*, published in *Twine Line*. (Apr 2003)

The 2002-03 Lake Erie Steelhead Anglers Survey was completed with 375 of 487 (77%) anglers providing useful data. Preliminary results were presented in November/December 2003 issue of *TWINELINE*. Anglers averaged 1.33 fish caught per day and 58.4 per season, with approximately 88% of fish caught released. Individuals responded that they spend approximately \$26 per trip, with more than 60% of these expenditures within 10 miles of the sites where they are fishing. (Kelch, Lichtkoppler, and Sohngen)

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 submitted to the International Association of Great Lakes Research 2004 Conference Abstract Committee. (Dec 2003).

- Coastal Recreation

For the third year in succession Lucente received a grant to distribute over 15,000 copies of the 2003 Western Lake Erie Waterfront Guide he created. The \$7,480.00 grant came from the Lake Erie Protection Fund. The guide is used to promote cultural and eco-tourism in the Western Lake Erie Basin. (Lucente and Ritzler, Jan-May 2003)

Lucente has teamed with and secured an annual \$2,500 contribution from the Monroe, Michigan County Convention and Visitor's Bureau to produce the "Lake Erie West Guide" to promote boating, fishing, eco-tourism, cultural, and festival activities in the western Lake Erie region. This partnership allows for a regional approach in promoting Ohio's greatest natural asset, Lake Erie, as well as breaking down geographic boundaries between two states and bringing them together for the greater public good. (Lucente, Aug 2003).

- Marine Trades

Lead by Ohio Sea Grant, the Great Lakes Sea Grant Network programs surveyed the Great Lakes charter-fishing captains during October 2002 to April 2003 using a modified Dillman mail survey technique. A total of 868 captains returned surveys with usable data for a response rate of over 49%. This survey is directly comparable to the 1994 Great Lakes charter captain survey and earlier charter captains surveys conducted in the 1980's. (Lichtkoppler, Jun 2003)

Lichtkoppler, F. R., C. Pistis, and D. Kuehn. 2003. *The Great Lakes Charter Fishing Industry in 2002*. (OHSU-TS-039) Great Lakes Sea Grant Network.

Lichtkoppler, F. R., and D. Kuehn. 2003. *New York's Great Lakes Charter Fishing Industry in 2002*. (OHSU-TS-035) Great Lakes Sea Grant Network.

Lichtkoppler, F. R. 2003a. *Pennsylvania's Great Lakes Charter Fishing Industry in 2002*. (OHSU-TS-037) Great Lakes Sea Grant Network.

Lichtkoppler, F. R. 2003b. *Ohio's Great Lakes Charter Fishing Industry in 2002*. (OHSU-TS-036) Great Lakes Sea Grant Network.

Lichtkoppler, F. R. 2003c. *Illinois-Indiana's Great Lakes Charter Fishing Industry in 2002*. (OHSU-TS-032) Great Lakes Sea Grant Network.

Lichtkoppler, F. R. 2003d. *Wisconsin's Great Lakes Charter Fishing Industry in 2002*. (OHSU-TS-038) Great Lakes Sea Grant Network.

Lichtkoppler, F. R. 2003e. *Minnesota's Great Lakes Charter Fishing Industry in 2002*. (OHSU-TS-034) Great Lakes Sea Grant Network.

Pistis, C., and F. R. Lichtkoppler. 2003. *Michigan's Great Lakes Charter Fishing Industry in 2002*. (OHSU-TS-033) Great Lakes Sea Grant Network.

The paper, *The Great Lakes Charter Fishing Industry: 1973 to 2002*, was submitted to the North American Journal of Fisheries Management. (Nov 2003; D. Kuehn, F. Lichtkoppler and C. Pistis)

2. Coastal Community Development

Thirteen engineers learned more about storm water management at NEMO's web simulcast of the Storm Water Management Program January 23, 2003. Engineers' comments from the program evaluation indicated that this training would assist them in writing their NPDES-Phase II requirements for Ohio EPA. (Williams, Jan 2003)

Fifty-Three community economic development specialists learned more about efficient and creative ways to meet EPA Phase II storm-water management requirements at the agent's Economic Development Network meeting. Members of the Chagrin River Watershed Partnership explained how they developed their plan. Participating communities utilized this information to formulate their storm-water management plans. (Williams, Jan 2003)

One hundred and three business owners attended a reception in New York in February 2003 coordinated by Williams and the Cleveland Convention and Visitors Bureau. Cleveland Mayor Jane Campbell provided the opening remarks at the reception. This program was designed to cultivate relationships with media, travel consultants, corporate executives and business site location consultants. Because of this event Chase Financial Services is re-evaluating moving some departments located in New York to the Cleveland market.

Over 170 downtown office tenants responded to the "Crisis in Cleveland's Downtown Office Space survey" conducted in October 2002-January 2003. About 34% of the respondents were not committed to signing another lease in their current downtown location. The Downtown Cleveland Partnership, a working group organized to address the vacancy crisis of downtown office space, will utilize this information to garner support from Cleveland City council for incentives for office tenants to remain in downtown Cleveland. In addition a visitation program established to communicate with downtown office tenants. (Williams, Feb 2003)

A total of 30 companies located in Brooklyn and Brooklyn Heights have responded to Williams' business retention survey. Seven of these companies are interested in becoming members of the Pre-Employment Training Program. Members significantly reduce the cost of hiring new employees by sponsoring this program. (Williams, Apr 2003)

Twenty-eight people attended Cuyahoga County's Genetically Altered Foods. Participants learned how pervasive genetically altered foods were already in our food supply, and whether the government should regulate this industry. Participants surveyed at the end of this meeting indicated that information they were exposed to would influence their buying and eating habits. Cuyahoga County Agent Staff, Joe Konen and Dave Patton (Williams, Apr 2003)

Ten communities have been certified as business-friendly locations. Applications, for certification were received from 40 communities in Northeast Ohio. Williams developed the survey instrument that determines a community's eligibility for this program. This designation is a badge of honor for communities to use on its letterhead, and signage. Extension intends to work with communities that do not measure up initially to help them win this designation. An article appeared in May 5-11, 2003 edition of the Crain's Cleveland Business highlighting this program success. (May 2003)

Forty economic development specialists learned innovative techniques for designing business retention programs from Development Strategies. Development Strategies is a private company that provides consultation to communities pertaining to economic development. This

program was delivered electronically over the web from St. Louis MO. The principals from Development Strategies emphasized how tax increment financing could be utilized as a tool for business retention and attraction. The Mayor of Broadview Heights indicated that tax increment financing could possibly be the impetus the city needs to jump-start redevelopment of the central business district. (Williams, May 2003)

Lucente and Jim Weidenheft, Ottawa County Extension Agent for Community Development conducted over 50 personal business visits in Ottawa County for the tourism, service and retail service sectors for the Ottawa County Business Retention and Expansion Project. (J. Lucente, J. Weidenheft, Dec 2002-May 2003)

Port Clinton, Ohio officials learned: 1) to establish and maintain an on-going business retention and expansion program that develops and fosters long-term positive and productive relationships among public and private entities within the local community and the region; 2) to identify and address concerns and issues of existing businesses and to identify opportunities; and, 3) to create programs to stimulate local job growth. (J. Lucente, J. Weidenheft, Jun 2003)

Various Marion County administrators and officials learned the dynamics of conducting a business retention and expansion study for its existing business base as a result of a presentation by Lucente, the agent in Toledo. As a direct result, Marion County officials will soon embark on setting up a business retention and expansion program. (Lucente, Aug 2003)

A total of 52 graduates out of 117 participants have been placed in manufacturing jobs as a result of an Ohio State University Extension partnership with WIRE Net in its Pre-employment Training Program (PET). A total of 96 hours of classroom instruction was provided each quarter since April 2001. The purpose of PET is to teach manufacturing job-training skills to unemployed and underemployed residents of Cuyahoga County. Williams has provided 27 hours of classroom instruction in the following subject areas: Money Management, Introduction to Computers, Effective Team Building. This program is being featured in Extension's annual Report for 2003. (Williams, Sep 2003)

Fifty-five Economic Development Specialists learn why three local communities received their Business Friendly Community Designations. Representatives from the three communities shared with the Specialist how their communities not only met the minimum requirements but also exceeded these requirements. (Williams, Sep 2003)

A total of 30 out of 63 companies responded to the Agent's Talent & Workforce Survey. This survey was conducted for Workforce Preparations to determine what programs are needed to remain an effective advocate for area employers. Workforce Preparations will develop programming based on survey respondents. (Williams, Sep 2003)

The revised paper, *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*, was resubmitted to the Journal of Soil and Water Conservation. (Blaine and Lichtkoppler, Oct 2003)

Twenty-nine leadership professionals learned how to evaluate a local government official training program as Lucente and Greg Davis of Ohio State University Extension presented

“Using Retrospective Pretest Methodology in Leadership Development for Government Officials” at the Mid-Western Educational Research Association’s Annual Meeting in Columbus, Ohio. (Lucente and Davis, Oct 16, 2003)

Sixteen people learned how the Ohio Business Retention and Expansion Initiative at The Ohio State University could help in business development and relationship building processes from Lucente during the Cherry-Bancroft-Summit Streets Corridor Coalition meeting on October 23, 2003. The Cherry-Summit-Bancroft Corridor Coalition is nationally recognized as a first-of-its-kind neighborhood community development partnership for urban renewal. (Lucente, Oct 23, 2003)

Twelve Extension Agent attended the Agent’s presentation on Gossip in the Workplace. Two of the attending agents indicated that they would utilize the information presented in future programming. (Williams, Nov 2003)

Lucente won and was presented with the District Achievement Award in the West District of Ohio for Outstanding Accomplishments in Extension Education in Community Development. This award was from the Ohio Extension Agent’s Association as well as peer voting in the West District of Ohio. (Lucente, Dec 9, 2003)

Lucente won and was presented with The Ohio State University Extension Community Development Innovative Individual Program Award for the Toledo Local Government Leadership Academy. Since its inception in 2002, and in partnership with the Toledo Area Chamber of Commerce, Ohio State University Extension, and the Ohio Sea Grant College Program, 43 local elected and appointed officials, people who serve on task forces, commissions or local government boards have graduated from the ten-week academy. Surveys indicate that all participants have increased their overall knowledge of local government operations by 82%. (Lucente, Dec 9, 2003)

New Jobs & Investments as a result of Williams’s business R&E efforts in 2003 include:

<u>Company</u>	<u>Investments</u>	<u>New Jobs</u>
Intier Automotive	\$1,300,000	65
Image Science	\$ 500,000	14
CEA USA	\$2,900,000	12
Highland Equipment	\$ 640,000	22
Business forms Plus	\$ 130,000	2
Hubbub Bicycle	\$ 200,000	2
Totals	\$5,670,000	117

The Port Clinton Mayor’s Core Group for transient marina development received approval from the U.S. Army Corps of Engineers to proceed with construction planning for a large municipal marina on the Portage River. An engineering design firm has been retained and a construction grant is expected in early 2004. 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. (Snyder, Jan-Dec 2003)

3. Revitalize Marine Infrastructure

The US Army Corps of Engineers has decided to revert to a strict adherence to the original CMP/EIS developed by the Ashtabula River Partnership and to contract the Preliminary Engineering Design for the landfill, dewatering plant and other necessary engineering work out to a single consultant (Black & Veatch) who will deliver the PED in a timely manner so that we can get the cleanup of the Ashtabula River into the 2005 federal budget. (Lichtkoppler, Nov 2003)

II. Coastal Ecosystem Health and Public Safety

A. Coastal Ecosystem Health

1. Coastal Ecosystems

Eighteen New England federal fish hatchery managers and state coastal program managers were certified in ANS-HACCP procedures to inhibit the spread of aquatic nuisance species through fish stocking and aquaculture practices. The ANS-HACCP curriculum was developed by the Great Lakes Sea Grant Network to extend Hazard Analysis Critical Control Point procedures from the seafood industry to ANS concerns. (F. Snyder, OH and E. Obert PA Sea Grant, Feb 2003)

The Mentor Area Regional Coalition Executive Committee completed work on a series of six fact sheets concerning Mentor Marsh: *Benefits of Mentor Marsh; Conservation Development in the Mentor Marsh Area; Help Protect the Mentor Marsh Area; Interacting with Your Local Government; Mosquitoes and Mentor Marsh; and, Public Stewardship of the Mentor Marsh Area.* (Lichtkoppler, Mar 2003)

Great Lakes Sea Grant Network Program Leaders' *Outstanding Program Award* to Snyder, for the HACCP approach to prevent the spread of aquatic nuisance species by aquaculture and baitfish operations. (Jun 2003)

Lichtkoppler, F.R. "Closing the Gap: Linking Science to Local Decision Makers." Paper presented at the 46th Conference on Great Lakes Research/10th World Lake Conference. International Association for Great Lakes Research & International Lake Environment Committee. June 22-26, 2003. DePaul University, Chicago Illinois.

Snyder received a two-year grant for \$32,445 from the Great Lakes Protection Fund to continue ANS-HACCP training in Ohio and other Great Lakes states. (Dec 2003)

Snyder and Kelch are board members of the Ohio Clean Marinas Program, working to eliminate environmentally unsound practices among Lake Erie marinas. (Nov-Dec 2003)

2. Coastal and Great Lakes Habitats

Ohio Sea Grant received a \$37,400 grant over two years as a cooperator in a successful competition for a National Sea Grant Aquatic Nuisance Species Outreach Program grant for 2003-2005 titled: *A National ANS Outreach Campaign for the Aquarium Industry and Hobbyist Consumers: A collaborative Effort Involving the Pet Industry Joint Council, the U.S. Fish and Wildlife Service and the Great Lakes Sea Grant Network.* (Lichtkoppler & Reutter, Mar 2003).

APEX Award of Excellence, 15th Annual Awards for Publication Excellence, Feature Writing

Category. "Entering the Zone" TWINELINE, Vol. 24, No. 5, 2002, article on the Lake Erie 'dead zone'. (Jeffrey Reutter, David Kelch, Jill Jentes Banicki and Frank Lichtkoppler. 2003).

Over 70 participants learned more about the value of Lake Erie shipwrecks, the importance of their protection, mooring buoys and their relationship to shipwreck protection and diver safety, and the concept of an underwater preserve for Lake Erie from a presentation to the Maritime Archaeological Survey Team (MAST). (Kelch, Dec 2003)

3. Sustainable Development

Blaine, T.W., F. R. Lichtkoppler, and R. Stanbro. 2003. An Assessment of Residents' Willingness to Pay for Green Space and Farmland Preservation Conservation Easements Using the Contingent Valuation Method (CVM). *Journal of Extension*. 41 (4) (electronic format) <http://www.joe.org/joe/2003august/a3.shtml> (The acceptance rate for JOE in 2003 was 52%.)

The Mentor Area Regional Coalition Executive Committee completed work on a series of documents that are available on a CD: (1) MARC/SAMP Brochure; (2) six fact sheets concerning Mentor Marsh: *Benefits of Mentor Marsh; Conservation Development in the Mentor Marsh Area; Help Protect the Mentor Marsh Area; Interacting with Your Local Government; Mosquitoes and Mentor Marsh; and, Public Stewardship of the Mentor Marsh Area*; (3) Issues Characterization; (4) Strategy Document; and, (5) MARC/SAMP PowerPoint Presentation. (Lichtkoppler, Oct 2003)

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

Frank Lichtkoppler having complied with the professional requirements established by the American Fisheries Society and verified by its Board of Professional Certification is declared to be a Certified Fisheries Professional on February 12, 2003. (Certificate Number 2525; expires December 2008.)

Sixty-nine scientists, agency officials and citizens learned more about avian botulism at the Botulism in Lake Erie Workshop in Buffalo, NY on April 3, 2003 co-sponsored by the NY, PA and OH Sea Grant programs. Over 95% of post program survey respondents agreed or strongly agreed that they gained new knowledge from the workshop. Almost 86% of responding participants who had attended either the 2001 and/or 2002 botulism workshops reported that they have shared the information learned with anglers, agency officials, co-workers, researchers, students and others. About 60% of previous workshop participants have taken such actions as: initiating a research program, started botulism mortality surveys, or written newspaper articles about the botulism problem. (H. Domske, NY; E. Obert, PA; & F. Lichtkoppler, OH)

Eleven certified crop advisors would now include buffer strip technology for watershed protection in their services to agricultural clientele, following a training session held by Snyder

in cooperation with Ottawa County Extension. (Apr 2003)

Snyder served as a journal article reviewer for the *Journal of Great Lakes Research* and the *Canadian Journal of Zoology*. (Jul-Aug 2003)

Eleven students in the OSU Dept of Ecology, Evolution and Organismal Behavior gained three credit hours in aquatic biology in Snyder's offering of EEOB 125. (Aug 2003)

A Great Lakes Sea Grant Network planning committee was assembled and chaired by Snyder to develop the 2004 GLSGN Conference, to be held at Put-in-Bay, OH. (Sep 2003)

Snyder served as a faculty promotion and tenure reviewer for Louisiana State University Extension. (Oct 2003)

2. Resource Managers

Five remote locations (Wooster, Cincinnati, Dayton, Cleveland and Toledo, Ohio) received information via the Internet as the Ohio Sea Grant College Program co-sponsored the Ohio Storm water Management Conference on January 23, 2003. Lucente assisted public officials in conducting the workshop on best management practices, performance standards and pollution credit training to develop an effective storm water management plan for municipalities.

Over 50 elected and appointed officials learned how to develop and conduct the "Local Government Leadership Academy Model" at the Wisconsin Community Leadership Summit during April 3-4, 2003 in Wisconsin Rapids, Wisconsin. Local leaders were trained in how to provide an intensive ten-week local government leadership course that encompasses ten modules of leadership capacity building in which their daily work is directly related to. (Lucente, Apr 2003)

Twenty elected and appointed officials learned more about the Ohio NEMO Program and the effects of non-point source pollution from development at a focus group conducted by a partnership with Ohio Sea Grant, Ohio NEMO and Ohio State University Extension at Old Woman Creek National Estuary in Huron, Ohio on June 24, 2003. As a result of this focus group, new educational materials such as fact sheets and an informational web site will be developed to better educate public officials and the general public on non-point sources of pollution and how development and smart growth can co-exist. (J. Lucente, T. Lawrence, R. McCall)

Ten Ohio State University Extension State Development Leaders and Specialists learned how local efforts to implement core community development activities around the State of Ohio could lead in building relationships for success as Lucente presented "The Toledo Local Government Leadership Academy- Building Partnerships and Making Connections" at the State Extension Leader's Community Development Quarterly Meeting. (Lucente, Nov 19, 2003)

3. Technical Training

Three OSU Extension faculty and staff were provided their annual evaluations with the input of the agent. (Lichtkoppler, Jan-Feb 2003).

Lucente presented the "Toledo Local Government Leadership Academy Model" to the Allen/Lima County Chamber of Commerce and Allen/Lima Leadership on April 22, 2003 in Lima, Ohio. As a direct result, The Allen/Lima County Chamber of Commerce will partner with Ohio State University Extension to offer the ten-week Local Government Leadership Academy to elected and appointed officials in the fall of 2003. The Academy will encompass the ten modules of curriculum necessary for public servants in their respective daily jobs. (Lucente, Apr 2003)

On May 9, (2003) 29 fisheries and wildlife professionals, faculty and graduate students learned the importance of coastal wetlands to fisheries production on Lake Erie at a wetlands workshop organized by Mr. Hageman on behalf of the Ohio Chapter of the American Fisheries Society.

Lucente was a guest lecturer at Dr. Bill Obenour's Tourism and Policy Development Graduate Class on June 26, 2003 at Bowling Green State University. Ten students learned more about The Ohio Business Retention and Expansion Initiative at The Ohio State University and how it has been implemented in the western basin of Lake Erie to gauge the effects of businesses that are looking to expand operations, need financial assistance, or government grant and loan information. In addition, The Ohio BR&E Program assesses the overall health and business climate in a community as well as serving as a mechanism to build and foster relationships between government entities and businesses.

A post program survey of the 81 participants in the "Managing Ponds: A Resource In-Service" for pond management professionals indicated that the participants learned new material regarding pond management, and would apply their new knowledge to clientele pond concerns. A conference proceedings notebook that included speaker handouts, power-point presentations, and other related literature was provided to participants. (Kelch, Lynch, Oleskiewicz, and Graham, Jul 22-23, 2003)

The associate professor has secured support for the effort to have extension field faculty granted full faculty rights and voting privileges to the University Senate from Dean Moser, College of Food, Agriculture and Environmental Science, and Dr. Keith Smith, Director OSU Extension. (Kelch, Jul-Sep, 2003).

Twenty-one participants learned more about fisheries management, Lake Erie issues, fish production and field sampling techniques at the Ohio Great Lakes Fishery Leadership Institute at Stone Laboratory, September 12-14, 2003. Almost 94% (16 of 17) of post program survey respondents strongly agreed that they would share the information learned at the workshop with others. Eighty-seven percent (14 of 16) agreed or strongly agreed that they will conduct a service project as a result of the workshop. (Hageman, Kelch, Lichtkoppler, Reutter, Snyder, and Sturtevant)

Thirty-eight participants learned more about Lake Erie fishery issues, the Great Lakes Fish Commission, and Lake Erie Fisheries management, electro-fishing sampling techniques, and aquatic field sampling techniques at the Lake Erie Great Lakes Fishery Leadership Institute at Presque Isle PA, October 3 and 4, 2003. Almost 75% (21 of 28) of post program survey respondents strongly agreed that they plan to share the information learned at the workshop with others. Sixty-nine percent (18 of 26) agreed or strongly agreed that they will conduct a service project as a result of the workshop. One individual has already published an article in a

local news media concerning the Lake Erie GLFLI training. (Domske, NY; Lichtkoppler, OH; and Obert, PA)

Kelch chaired the North Extension District Faculty Promotion and Tenure Committee in October, with the vitas of four candidates reviewed for faculty promotion. Recommendations were developed by the committee, with the chair writing and forwarding the final decision to the District Extension Director. (Oct 2003)

Kelch was again elected by his peers to serve as the chairperson for the 2004 North Extension District Faculty P&T Committee. This is the second year for Kelch as committee chair, and the third year on the committee. He has responsibility for reviewing and commenting on first and second drafts, and in chairing the full faculty review committee. (Oct 2003)

Lucente served as Ohio Sea Grant's Coastal Community Development Specialist in representing the program at NOAA/USPEA sponsored Smart Growth Training, November 2-7, 2003 in Washington, D.C. Lucente submitted a comprehensive report for Ohio Sea Grant Smart Growth Projects to the National Sea Grant Office in Silver Spring, Maryland.

Snyder worked with other West District extension professionals to develop and present two training in-services for extension agents in the West District Applied Research Program. This effort trains agents to develop scholarly contributions to their professions from extension teaching activities they conduct. (Sep-Dec 2003)

The Ohio State University Department of Extension (OSUE) benefits each year from the administrative experience and talent found among senior Ohio Sea Grant Extension Specialists. Appointments to OSUE administrative committees are based upon expertise and commitment in addition to tenure, and represent the department's recognition of particular faculty members as able to benefit the entire organization. In many cases, Ohio Sea Grant Extension Specialists have risen to leadership of these critical working groups.

As a member of the College of Food, Agriculture and Environmental Sciences' (FAES) Agriculture Faculty Council specialist Kelch provides input to the Vice President for Agriculture and Dean of the CAEFS. He p provides advise to the OSU Extension Director as a member of the OSUE department's Internal Advisory Council and the Cost Recovery Team.

Specialist Snyder was appointed twice to the Department of Extension's Promotion and Tenure Committee (three-year terms), including one year as chair, and served two terms (one year each) on the OSUE Northwest District Promotion and Tenure Committee, again as chair for one term. He served on the School of Natural Resources Advisory Committee and is on the OSUE West District Research Committee. He has a 0.2 FTE appointment as Ohio Sea Grant Extension Program Co-Leader.

Specialist Lichtkoppler served on the College of FAES Promotion and Tenure Committee (three-year term) and three years on the OSUE Departmental Promotion and Tenure Committee, including one year as chair. He served on the FAES Agriculture Faculty Council and also has a 0.2 FTE appointment as Ohio Sea Grant Extension Program Co-Leader.

These selective administrative appointments require a substantial input of time from Sea Grant

specialists, but have positively impacted the careers of dozens of extension agents, facilitated administration of the department and the college, and have brought university-wide prestige to Ohio Sea Grant. (Snyder, Lichtkoppler, Kelch)

B. Assure an Environmentally and Scientifically Informed Citizenry

1. Pre-college Education

Thousands of individuals learned more about Lake Erie during the 2003 Mid-America Sail and Power Boat Show (January 17-26), the 2003 Eastlake Fishing Symposium (February, 15 & 16), and the 2003 Cleveland Sport, Travel and Outdoor Recreation Show (March 15-23). Kelch organized the teaching at the Sea Grant exhibit, and worked with the Ohio Sea Grant Communications Program to develop new exhibit displays. Hundreds of patrons learned more about Lake Erie at 14 seminars taught by Kelch at the Boat Show and four more seminars at the Sport Show. The topic of the seminars was, "Lake Erie's Dead Zone: What does it all mean?" Boat Show management indicated these seminars were some of the best attended on record. Hundreds of angler and boater questions were answered and show patrons acquired additional information from the over 12,000 Sea Grant fact sheets that were distributed at the three shows. (Kelch, Lichtkoppler, Lucente, Snyder, Williams & Hageman)

Over 380 clientele learned more about steelhead biology and management in Lake Erie and how/where to take advantage of fall, winter and spring stream angling opportunities at two Steelhead Seminars taught by Kelch and at one workshop held on the Ohio State University Campus. The workshop also featured topics about F.T. Stone Laboratory, Lake Erie's new "dead zone" concern, western and central basin fishery updates and new angling opportunities. (Kelch, Reutter, & Snyder, Feb 2003)

Thirty-two participants learned how to institute the utilization of surveys as an effective tool of program impact and evaluation from the presentation "Evaluating Impact Through Extension Programming" made by Lucente at an in-service in the Northwest District of Ohio State University. (Lucente, Feb 28, 2003)

A multimedia on-screen presentation entitled "Let's Go Fishing!" was developed for use in northern Ohio School systems as part of the national "Hooked on Fishing, Not Drugs" initiative. The program was tested in two Port Clinton elementary schools (total audience: 155) and is now available for distribution. The program will be implemented by Ottawa County instructors during the 2003-04 school year, and is available to instructors statewide. (Snyder, May 2002)

Eighty Extension Agents and pond consultants gained knowledge of pond and lake ecology through a new multimedia presentation entitled *Pond Ecology*. This program is now in use by Extension agents in several Ohio counties. (Snyder, Jul 2003)

Over 80 youth and adults learned more about Lake Erie fisheries, fisheries biology, handling and preparation, shipwrecks, snorkeling, aquatic nuisance species, angling techniques, boat handling and GPS navigation during educational sessions taught by Kelch and others during the 20th Annual Ohio 4-H Sea Camp. Conducted July 5th-10th at the Kelleys Island 4-H Camp, the original Sea Camp concept was developed by Ohio Sea Grant specialists in 1984. The camp provides youth with Lake Erie awareness and education, and teaches them the values associated with Lake Erie. (Kelch, Jul 2003)

Over 510 participants in 12 seminars/presentations learned more about Lake Erie. Topics taught by the Associate Professor included Lake Erie's Dead Zone and fishery impacts, angling opportunity, aquatic nuisance species, fish consumption safety, and Lake Erie fishery principles/management. One radio interview taught thousands about Lake Erie angling opportunities and recent toxic algae concerns. (Kelch, Jul-Sep 2003)

Mass audiences gained knowledge of Lake Erie's aquatic ecosystem and coastal issues through a series of eight newspaper interviews (Cleveland, Maumee, Sandusky, Fremont OH, Associated Press), three radio interviews (Cleveland, Kent OH, Clear Channel Syndicate), one national magazine interview and one television documentary (Rochester, NY). (Snyder, Jan-Sep 2003)

Fifteen extension and resource professionals learned about Sea Grant and Lake Erie as Lucente presented a Lake Erie and Sea Grant update at the Lucas County, Ohio Extension Office. (Lucente, Oct 6, 2003)

During the 2003 aquatic science workshop season, April through October, Mr. Hageman hosted a total of 5,709 individuals from 177 groups, from 4th grade through adult. Workshop participants learned about Lake Erie's ecosystem through science cruises, plankton and fish identification lab sessions, ornithology hikes, invertebrate biological indicator surveys and exotic species slide shows. Many groups enjoy an overnight stay at Stone Lab on Gibraltar Island further enhancing the learning experience. Participants come from throughout Ohio and many school groups come from the neighboring states of Pennsylvania, Indiana and Michigan.

Midview Middle School biological sciences students learned about the impact of aquatic nuisance species and Lake Erie's Dead Zone during a presentation by the instructor. The presentation consisted of a slide show, printed material handouts and a question/answer session. 97 students and three science teachers participated in the program. (Kelch, Nov 2003)

Over 238 participants learned more about Lake Erie's Dead Zone, angling opportunities, aquatic nuisance species, fish consumption safety, and Lake Erie fishery principles and management at eight seminars taught by Kelch. (Oct-Dec, 2003)

The Ohio Sea Grant Extension grant proposal for March 1, 2004 to February 28, 2006 in the amount of \$787, 838 was developed and submitted to the National Sea Grant Program Office along with the core Ohio Sea Grant College Program grant proposal. (Lichtkoppler, Snyder and Thomas, Nov 2003)

Extension Agent Activities 2002

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTING	CHAIR/NO.	ORGANIZING	PARTICIP. NO.	MASS MEDIA
2002	1	2		Hageman	Ulrich, FSA, USFWS	Bono	Site Visit, Wetlands Res Program				4	
2002	1	2		Snyder	S. Lichtensteiger	Port Clinton	Computer Upgrade				1	
2002	1	3		Lucente	Capt. Paul Pacholski, West Sister Isl. C	Toledo	Article for WSCBA newsletter			x		XX
2002	1	3		Snyder	Associated Press Interview	Port Clinton	Lake Levels					XX
2002	1	3		Snyder	Cleveland Plain Dealer Interview	Port Clinton	Lake Levels					XX
2002	1	3		Williams	Extension Agents/CD	Columbus	Nemo Inservice					
2002	1	3		Williams	Ann Moore, Toledo Chamber of Comm	Toledo	Leadership Academy Planning mtg	5	x	x		
2002	1	4		Lucente	P-L-B BI-Centennial Committee	Put-In-Bay	Ohio BI-Centennial Plan Cite.				8	
2002	1	7		Hageman	Lucas County Staff	Toledo	Lucas County Staff Mtg.	15				
2002	1	7		Lucente	Gong, Marcy Kaptur, Ohio Aquac. Assn	Toledo	Aquaculture Development	8		x		
2002	1	7		Snyder	Sea Grant Staff	Conference Call	2002-03 extension plans				x	
2002	1	8		kelch	Sea Grant Ext. Program Leaders	Conference Call	GL Sea Grant Network Planning	8		x		
2002	1	8		Lichtkoppler	Toledo Local Govt. Leadership Academ	Toledo	Leadership Academy Class	35	x	x		
2002	1	8		Lucente	Sea Grant Staff	Conference Call	Fisheries Extension Conf. Call	5				
2002	1	8		Snyder	Sea Grant Program Leaders	Conference Call	GL Network Admin. Conf. Call	7				
2002	1	8		Snyder	Sea Grant Staff	Put-In-Bay	Fisheries Extension Conf. Call				12	
2002	1	9		Hageman	Ohio Sea Grant Staff	Conference Call	Fisheries Extension Conf. Call	7		x		
2002	1	9		Lichtkoppler	Sea Grant Staff	Conference Call	Fisheries Extension Conf. Call	5				
2002	1	9		Lucente	Sea Grant Staff	Conference Call	Fisheries Extension Conf. Call	5				
2002	1	9		Snyder	Sea Grant Staff	Conference Call	Fisheries Extension Conf. Call	5				
2002	1	9		Williams	J. Kerrigan/M. Warrick	Cleveland	Web design	2				
2002	1	9		kelch	west cleveland walleye association	cleveland	lake levels	47				
2002	1	10		Lichtkoppler	Coastal Ohio	Conference Call	Lake Erie Tourism	5				
2002	1	10		Lichtkoppler	Mentor Marsh Board	Mentor	Lake Erie Management	14				
2002	1	10		Lucente	Northwest Ohio Regional Econ. Dev. As	Toledo	NORED Mtg.	42			x	
2002	1	10		Williams	Jennifer Deutsch**	Cleveland	bus. Startup grants	2				
2002	1	11		Lucente	Ann Moore, Toledo Chamber of Comm	Toledo	Leadership Planning Mtg.	1	x	x		
2002	1	11		Snyder	Portage River Basin Council	Pemberville	Recreation & Wildlife Comm.	4	x	x		
2002	1	11		Williams	Veronica Williams**	Cleveland	bus location retail	1				
2002	1	12		Hageman	OSU Extension	New Philadelphia	Woodlands Steward Class				50	
2002	1	14		Hageman	Pheasants Forever, Ch. 291 Board	Oak Harbor	Monthly Board Mtg.				10	
2002	1	14		Williams	Don Bally**	Cleveland	bus location retail					
2002	1	14		Williams	BREI Board mtg	Cleveland	conference call					
2002	1	15		kelch	north coast black bass anglers asso.	mentor	art reefs, lake levels, bass tagging	39				
2002	1	15		Lichtkoppler	Mentor Area Regional Coalition	Mentor	SAMP Planning	12				
2002	1	15		Lucente	Toledo Local Govt. Leadership Academ	Toledo	Leadership Academy Class	35	x	x		
2002	1	16		kelch	Kelleys Isl. U/w preserve committee	sandusky	preserve planning and goals	21			x	
2002	1	16		Lichtkoppler	NY & PA Sea Grant agents	Conference Call	Botulism Workshop Planning	3				
2002	1	16		Lucente	Kelley's Island UP Planning Team Mtg.	Sandusky	Planning Mtg.	18				
2002	1	16		Williams	The Tite Shop**	Cleveland	bus. Location warehouse					
2002	1	16		Williams	Article* Existing Business-My soap box for BREI		Select Historical Photo's for Display					
2002	1	17		Hageman	Lake Erie Islands Historical Soc.	Put-In-Bay	News release for Western LE Waterfront Guide			x	3	XX
2002	1	17		Lucente	Toledo Blade	Toledo	Office Conference	12				
2002	1	17		Snyder	NW District Office Staff	Findlay	Spring Conference Planning			4		
2002	1	17		Snyder	NW District Committee	Findlay	Spring Conference Planning					XX
2002	1	18	27	kelch	Mid-America Boat Show	cleveland	Sea Grant Information Booth					
2002	1	18		kelch	Dr. Smith's Internal Adv. Comm. Mtg.	columbus	directors internal adv. Comm.				x	
2002	1	18		kelch	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery	74				
2002	1	18		kelch	presentation:Mid-America Boat Show	Cleveland	Sea Grant Information Booth					XX
2002	1	18	27	Lichtkoppler	Mid-America Boat Show	Cleveland	PPST Team Mtg.	2		x		
2002	1	18		Lucente	Jerry Thomas, NW District Director	Toledo	State Chapter Meeting				75	
2002	1	19	20	Hageman	State Chapter, Pheasants Forever	Marysville	lake levels, steelhead fishery	69				
2002	1	19		kelch	presentation:Mid-America Boat Show	cleveland	Sea Grant Information Booth					XX
2002	1	19	20	Snyder	Mid-American Boat Show	Cleveland	lake levels, steelhead fishery	56				
2002	1	20		kelch	presentation:Mid-America Boat Show	cleveland	fish consumption advisories	48				
2002	1	21		kelch	presentation:Mid-America Boat Show	cleveland	Watershed	23				
2002	1	21		Williams	Aurora Watershed Mtg	Aurora	Sea Grant Information Booth					XX
2002	1	21		Williams	Mid-American Boat Show	Cleveland	lake levels, steelhead fishery	51				
2002	1	22		kelch	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery					

Ohio Sea Grant Extension 2002 Combined Activities

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTING NO.	CHAIR/NO.	ORGANIZATION NO.	PARTICIP. NO.	MASS MEDIA
2002	1	22		Lichtkoppler	Sea Grant Ext. Program leaders	Conference Call	Fisheries Extension	8				
2002	1	22		Lucente	Port Clinton Mayor T. Brown, City Council	Port Clinton	Tourism BR&E Mtg.	12				
2002	1	22		Snyder	Toledo Local Govt. Leadership Academy	Toledo	Leadership Academy Class	35	x		x	
2002	1	22		kelch	Sea Grant Program Leaders	Port Clinton	GL Network Admin. Conf. Call	6				
2002	1	23		kelch	presentation:Mid-America Boat Show	cleveland	fish consumption advisories	37				
2002	1	23		Snyder	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery	81			15	
2002	1	23		kelch	Lake Erie Circle Tour	Elyria	Tourism Director Interviews	34				
2002	1	24		Lucente	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery	34				XX
2002	1	24		Snyder	Mid-American Boat Show	Cleveland	Sea Grant Information Booth	28				
2002	1	24		Williams	Portage River Basin Council	Bowling Green	Council Meeting	43				
2002	1	24		kelch	Cluster Group	Strongsville	Business Retention	63				
2002	1	25		Lucente	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery	2			x	
2002	1	25		kelch	Greg Davis, NW District Specialist, CD	Toledo	PPST Team Mtg.	46				
2002	1	26		kelch	presentation:Mid-America Boat Show	cleveland	fish consumption advisories	62				XX
2002	1	26		Lucente	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery	26				XX
2002	1	27		kelch	Cleveland National Boat Show	Cleveland	Work Sea Grant Booth	3				
2002	1	27		Snyder	presentation:Mid-America Boat Show	Cleveland	lake levels, steelhead fishery	3				
2002	1	29		Lichtkoppler	Mid-American Boat Show	Conference Call	Sea Grant Information Booth	35	x			
2002	1	29		Lucente	OSU Extension Staff	Toledo	Personnel Evaluation	50				
2002	1	29		Williams	Toledo Local Govt. Leadership Academy	Columbus	Leadership Academy Class	38				
2002	1	29		kelch	Economic Development Network Mtg	Columbus	Business Retention	3				
2002	1	30		kelch	Key Concepts	Columbus	Community Dev	50				
2002	1	30		Lucente	Iorain city visitors bureau board mtg.	Iorain	bureau planning, direction	3				
2002	1	30		Williams	State CD Agents	Columbus	Key Concepts In-Service	3				
2002	1	30		Williams	NW District Committee	Findlay	Spring Conference Planning	3			4	
2002	1	30		Williams	Business Excel team mtg	Columbus	management excel	3				
2002	1	31		Hageman	Key Concepts	Columbus	Community Dev	17				60
2002	1	31		Williams	Great Lakes Resch Vessel Coords	Cleveland	Resch Vessel Coord Workshop	14				
2002	2	1		Hageman	Business Excel team	Cleveland	5 function	15				400
2002	2	4		Lichtkoppler	Ohio Wildlife Mgmt. Assoc. Mtg.	Columbus	Office Conference	8				
2002	2	4		Lucente	OSU Extension Staff	Painesville	Lucas County Staff Mtg.	43				
2002	2	4		Williams	Lucas County Staff	Toledo	Business Retention	12			x	
2002	2	4		Williams	OHEDC TBZ	Cleveland	Pre Employment	23	x			
2002	2	4		kelch	PET	Iorain	planning sub-committee mtg	35	x			
2002	2	5		kelch	Iorain city visitors bureau board mtg.	Iorain	updates, planning	12				
2002	2	5		Lucente	sea grant advisory committee meeting	elyria	Leadership Academy Class	12				
2002	2	5		Snyder	Toledo Local Govt. Leadership Academy	Toledo	Transient Marina Planning	5				
2002	2	5		Williams	Port Clinton Mayor's Core Group	Port Clinton	Business Attraction	14				
2002	2	5		kelch	The Tile Shop**	Ohio	Sea Grant Staff Meeting	14				
2002	2	6		Lichtkoppler	Ohio Sea Grant Staff	cleveland	Sea Grant Staff Meeting	14				
2002	2	6		Lucente	Ohio Sea Grant Staff	Cleveland	Sea Grant Staff Meeting	14				
2002	2	6		Snyder	Ohio Sea Grant Staff	Cleveland	Sea Grant Staff Meeting	14				
2002	2	7		kelch	northcoast charterboat association	Iorain	lake levels, fishery	28				
2002	2	7		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Public Hearing	42			x	
2002	2	7		Williams	Business Excel	Cleveland	Host	3				
2002	2	8		Lichtkoppler	OSU Extension Staff	Conference Call	Personnel Evaluation	2	x			
2002	2	8		Lucente	Toledo Sea Grant Advisory Committee	Toledo	Agenda and Mtg. Prep.	35				
2002	2	8		Snyder	Lake Erie Scientists	Tiffin	Lake Erie Mayfly Metrics Wkshp	49				
2002	2	9		kelch	fin-feather-fur outfitters sports store	ashland	steelhead angling presentations	45				
2002	2	9		Lichtkoppler	Citizens, Anglers, Boaters	Cleveland	Lake Erie Ecology	18				
2002	2	9		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Public Hearing	25				
2002	2	11		kelch	great lakes sg network fisheries mtg	ann arbor, michigan	network fisheries planning	4			x	
2002	2	11		Lichtkoppler	Sea Grant Ext. Program Leaders	Ann Arbor, MI	Fisheries Extension	32				
2002	2	11		Lucente	Ann Moore, Toledo Chamber of Commerce	Toledo	Leadership Planning Mtg.	17				
2002	2	11		Lucente	Lake Erie Charter Boat Association	Port Clinton	Presented update on West Basin	3				
2002	2	11		Snyder	Lake Erie Charter Boat Ass'n Board	Port Clinton	Artificial Reef Development	3				

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2002	2	11		Williams	PET	Cleveland	Money 2000	30				
2002	2	12		kelch	submerged lands adv comm mtg	Iorain	shipwreck buoys, u/w preserve	15				
2002	2	12		Lucente	Toledo Local Govt. Leadership Academy	Toledo	Leadership Academy Class	35	x			
2002	2	12		Williams	BREI Board mtg	Cleveland	Br. Mtg	12				
2002	2	13		kelch	Kelley's Island UP Planning Team	sandusky	Planning Mtg.	26				
2002	2	13		Lucente	Kelley's Island UP Planning Team	sandusky	Planning Mtg.	26				
2002	2	13		Snyder	Lake Erie Buffer Team	Tiffin	Stream Buffer Development	12				
2002	2	14		kelch	west cleveland walleye association	cleveland	steelhead update and angling	48				
2002	2	14		Lightkoppler	ODNR	Conference Call	Soil & Water Grants Review	5				
2002	2	14		Lightkoppler	Mentor Marsh Board	Mentor	Marsh Management	12				
2002	2	14		Lucente	Northwest Ohio Regional Econ. Dev. As	Toledo	NORED Mtg.	42				
2002	2	14		Lucente	Maumee RAP	Toledo	RAP Mtg.	30				
2002	2	14		Williams	Business Excel	Cleveland	Staffing	17				
2002	2	15	17	Lightkoppler	Anglers	Eastlane	Lake Erie Fisheries					XX
2002	2	15		Lucente	Port Clinton Mayor, City Council, First E	Port Clinton	Port Clinton Tourism R&E Project	14				
2002	2	18		Hageman	Pheasants Forever, Ch. 291 Board	Oak Harbor	Monthly Board Meeting				12	
2002	2	18		kelch	Lake Erie Nature & Science Center	bay village	new OSG display: steelhead evaluation/planning sub-comm				x	
2002	2	18		kelch	Iorain city visitors bureau board mtg.	Iorain						
2002	2	18		Lightkoppler	Sea Grant Ext. Program Leaders	Conference Call	GL Network Admin. Conf. Call	8				
2002	2	18		Snyder	Sea Grant Ext. Program Leaders	Conference Call	GL Network Admin. Conf. Call	8				
2002	2	19		Lucente	Toledo Local Govt. Leadership Academy	Toledo	Leadership Academy Class	35	x			
2002	2	19		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Planning	13				
2002	2	19		Williams	Bessmer Rd. Ext.	Cleveland	Extending a road	23				
2002	2	20		kelch	GLERL seminar series for scientists	ann arbor, michigan	presentation: artificial reefs	35				
2002	2	20		Snyder	Firelands Tourist Council	Sandusky	Lake Erie Fisheries	26				
2002	2	20		Williams	PET	Cleveland	Money 2000	25				
2002	2	21		Lightkoppler	Project Committee ARP	Ashtabula	River Dredging	15				
2002	2	21		Lightkoppler	Coordinating Committee ARP	Ashtabula	Project Coordination	12				
2002	2	21		Lucente	Toledo Sea Grant Advisory Committee	Toledo	Advisory Committee Mtg.	12	x			
2002	2	21		Snyder	Toledo Sea Grant Advisory Committee	Toledo	Advisory Committee Mtg.	12				
2002	2	22		kelch	Iorain city extension office	elyria	Interview secretarial position	15				
2002	2	22		Lucente	NW District Office	Findlay	PhD In-Service	24				
2002	2	23	27	Snyder	International Aqu. Nuls. Species Conf.	Washington, D.C.	HACCP Training, Presentation	65				
2002	2	24		Lucente	Community Res. Econ. Dev. Conf./Orla	Orlando, FL	Presented Local Govt. Leadership	320				XX
2002	2	25		kelch	WEOL radio-elyria interview	elyria	lake levels					
2002	2	25		Lightkoppler	Steve Madewell	Painesville	Steelhead Anglers Survey	2				
2002	2	25		Lightkoppler	OSU Extension Staff	Painesville	Office Conference	11				
2002	2	25		Lucente	Community Res. Econ. Dev. Conf./Orla	Orlando, FL	Presented Local Govt. Leadership	320				
2002	2	25		Williams	Gossip in the Work	Cleveland	Osui Staff	25				
2002	2	25		Williams	PET	Cleveland	Money 2000	25				
2002	2	26		Lucente	Community Res. Econ. Dev. Conf./Orla	Orlando, FL	Presented Local Govt. Leadership	320				
2002	2	27		kelch	Iorain city visitors bureau board mtg.	Iorain	planning, steelhead tourism	22				
2002	2	27	28	Lightkoppler	Scientists, Extension Agents, Citizens	Buffalo, NY	Botulism Conference	100				
2002	2	27		Lucente	Community Res. Econ. Dev. Conf./Orla	Orlando, FL	Presented Local Govt. Leadership	320				
2002	2	28		Lucente	CBS Corridors Coalition Mtg.	Toledo	Neighborhood Planning	22				
2002	3	1		Lucente	Ann Moore, Toledo Chamber of Comm	Toledo	Leadership Planning Mtg.	2	x			
2002	3	1	6	Williams	SAE	Detroit	Trade Show					
2002	3	4		Lucente	Lucas County Staff	Toledo	Lucas County Staff mtg.	15				
2002	3	5		Lightkoppler	Grand River Partnership	Jefferson	Watershed Protection	22				
2002	3	5		Lucente	Toledo Local Govt. Leadership Academy	Toledo	Leadership Academy Class	35	x			
2002	3	6		kelch	ODNR/DOW hunter safety class	elyria	teach home study: water safety	14				
2002	3	6		Lucente	Puflam County Leadership Class	Ottawa	Leadership Academy Class	24	x			
2002	3	7		Lightkoppler	N Coast Charter Captains	Grand River	Lake Erie Fisheries	46				
2002	3	9		Hageman	Pheasants Forever, Ch. 291 Members	Sandusky	Annual Fundraiser Banquet					
2002	3	9		kelch	Ohio Charter Captains Conference	Sandusky	presentation: side scan sonar	265				
2002	3	9		Lucente	Ohio Charter Captains Conference	Sandusky	Presented West Basin Art. Reef U	265				
2002	3	9		Snyder	Ohio Charter Captains Conference	Sandusky	Charter Business Seminar	265	x		x	

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2002	3	11		kelch	Lake Erie Nature & Science Center	bay village	Steelhead Angling Seminar	125	x	x		
2002	3	11		Lucente	Great Lakes SG Net. Coast. Com. Ther	Toledo	Conference Call on Collaboration	7				
2002	3	11		Williams	PET	Cleveland	Money 2000	12				
2002	3	11		Williams	BREI Board mtg	Cleveland	Conference call	15				
2002	3	12		Lucente	Toledo Local Govt. Leadership Academy	Toledo	Leadership Academy Class	35	x	x		
2002	3	12		Snyder	OSU & OARDC Faculty	Columbus	Aquaculture Development	8				
2002	3	12		Williams	NSL Analytical**	Valley View	Business Expansion	3				XX
2002	3	13		kelch	WOBL radio, oherlin	oberlin	fish contaminants, lake levels	12				
2002	3	13		kelch	submerged lands adv comm mtg	Iorain	shipwreck buoys, uw issues	16				
2002	3	13		Williams	CMHA Circle of Friend	Cleveland	Resource funding	13				
2002	3	14		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	6	x	x		
2002	3	14		Lucente	First Energy, Port Clinton rears, Ottawa	Port Clinton	Port Clinton/Ottawa Co. Tourism	13				
2002	3	14		Snyder	GLSGN HACCP Batfish Conf. Call	Port Clinton	HACCP Program Development	7		x		
2002	3	15		Snyder	National Public Radio Interview	Port Clinton	Mayfly Composting	3			x	
2002	3	16	24	kelch	American Canadian Sport Show	cleveland	sea grant exhibit, 1on1 clientele	50				XX
2002	3	16	24	Lichtkoppler	American Canadian Sport Show	Cleveland	Sea Grant Information Booth	50				XX
2002	3	16	20	Snyder	Great Lakes Sea Grant Program Leader	Baton Rouge, LA	Assembly Meeting					
2002	3	17	21	Williams	National Mtg Week	Chicago	Business Attraction					
2002	3	18		Hageman	Pheasants Forever, Ch. 291 Board	Oak Harbor	Monthly Board Mtg.				12	
2002	3	18		kelch	American Canadian Sport Show	cleveland	seminar: fish consumption safety	75				
2002	3	18		kelch	American Canadian Sport Show	cleveland	seminar: lake levels	82				
2002	3	19		kelch	American Canadian Sport Show	cleveland	seminar: fish consumption safety	53				
2002	3	19		kelch	American Canadian Sport Show	cleveland	seminar: lake levels	32				
2002	3	19		Lichtkoppler	Mentor Area Regional Coalition	Mentor	SAMP Planning	9				
2002	3	19		Lichtkoppler	Steelhead Anglers Board	Cleveland	Steelhead Anglers Survey	12				XX
2002	3	19		Lucente	American Canadian Sport Show	Cleveland	Sea Grant Information Booth	46				
2002	3	20		kelch	American Canadian Sport Show	cleveland	seminar: fish consumption safety	63				
2002	3	20		kelch	American Canadian Sport Show	cleveland	seminar: lake levels	16				
2002	3	20		Lucente	Iorain city visitors bureau board mtg.	Iorain	angling tourism, planning	23				
2002	3	20		Lucente	State CD Agent Mtg.	Columbus	State CD Agent In-Service	20				
2002	3	21		Lucente	Lucas County Extension Advisory Cabin	Toledo	Advisory Cabinet Mtg.					XX
2002	3	22	24	Snyder	American Canadian Sport Show	Cleveland	Sea Grant Information Booth	135				XX
2002	3	23		kelch	Michigan SG Forum: Cabela's	dundee, michigan	seminar:lake ene fisheryupdates					XX
2002	3	23		kelch	Michigan SG Forum: Cabela's	dundee, michigan	local radio interview: Lake Erie					XX
2002	3	23		Lucente	American Canadian Sport Show	Cleveland	Sea Grant Information Booth	2	x	x		
2002	3	25		Lucente	Ann Moore, Toledo Chamber of Commerce	Toledo	Leadership Planning Mtg.	6				
2002	3	25		Snyder	GLSGN HACCP Batfish Conf. Call	Port Clinton	HACCP Program Development	67				
2002	3	26		Lucente	Greet Lakes Fishery Commission	Buffalo, NY	Sea Lamprey / Harpersfield Dam	18				
2002	3	27	27	Lucente	Kelley's Island UP Planning Team	Sandusky	Planning Team Mtg.	12				
2002	3	27		Snyder	Coastal Ohio Tourism Board	Elyria	Board Meeting	40				
2002	3	27		Snyder	Corps, Engineers, Carroll Twp Resident	Oak Harbor	Spart Ordinance Clean-up	22				
2002	3	28		Lucente	CBS Corridors Coalition	Toledo	Neighborhood Planning	3				
2002	3	28		Williams	Premix**	Ashtabula	Business Retention	50				
2002	4	2		Lucente	NW District Spring Conference	Findlay	Spring Planning Conference	2	x	x		
2002	4	4		Lucente	Linda Koss, Lucas County Library	Toledo	Grant Seekers Seminar Planning	10				
2002	4	8	9	Lichtkoppler	OSU Extension Staff	Columbus	Promotion & Tenure Committee	x	10	x		
2002	4	8		Snyder	Dept. of Extension Prom&Tenure Comm	Columbus	Candidate Review	6		x		
2002	4	9		Snyder	GLSGN HACCP Batfish Conf. Call	Port Clinton	HACCP Program Development	65			40	
2002	4	9		Snyder	Toledo Leadership Academy	Toledo	Graduation Event	6				
2002	4	9		Lucente	Toledo Local Govt. Leadership Academy	Toledo	Leadership Academy Graduation	14	x	x		XX
2002	4	9		kelch	kelley's island uw preserve committee	sandusky	uw preserve and pub hearings	11			x	
2002	4	10		Lichtkoppler	Farmland Preservation Taskforce	Palmsville	Land Use Survey	6				
2002	4	11		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	11				
2002	4	11		Lichtkoppler	Citizens	Cleveland	Lake Erie issues	45				XX
2002	4	11		Snyder	Cleveland Plain Dealer Interview	Port Clinton	Lake Erie Tourism Resources	39				
2002	4	11		Lucente	NW OH Regional Economic Development	Toledo	NORED Mtg.					
2002	4	11		Lucente	Maumee RAP	Toledo	RAP Mtg.					

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2002	4	12		Lichtkoppler	Lake Erie Coastal Ohio Ex Comm	Elyria	LE Tourism	7				
2002	4	12		Hageman	Rocky River Nature Center	Rocky River	Exotic Species			50		
2002	4	12		kelch	Kelleys Island u/w preserve committee	port Clinton	public meeting/hearing					x
2002	4	13		kelch	LOOS Wetlands Seminar/Conference	cleveland	ANS and wetlands	74				
2002	4	15		Hageman	Bucyrus HS	Gibraltar Island	Aquatic Science Workshop			34		
2002	4	15		Hageman	Pheasants Forever Board	Oak Harbor	Monthly Board Mtg				5	
2002	4	15		Lucente	John Conglose, OSU Extension	Toledo	Monitoring Activities	2	x			
2002	4	16		Lichtkoppler	Mentor Area Regional Coalition	Mentor	SAMP Planning	12				
2002	4	16		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Planning	14				
2002	4	16		Hageman	Kenwood Elementary I	Gibraltar Island	Aquatic Science Workshop			37		
2002	4	16		Hageman	Ohio Chapter American Fisheries Soc.	Hebron, Ohio	Executive Committee Mtg	15				
2002	4	16		Lucente	Greg Davis, OSU Extension	Toledo	SPSS Database Information Input	2	x			
2002	4	16		Lucente	Port Clinton/Ottawa County	Port Clinton	Business Retention & Expansion	24	x			
2002	4	17		Hageman	Ian Black - Northwood HS	Gibraltar Island	Shadow Student					
2002	4	17		kelch	Lorain Cty. Bass Busters Club	elyria	smallmouth update, tagging	19				
2002	4	18	19	Hageman	Gibsonburg HS	Gibraltar Island	Aquatic Science Workshop			12		
2002	4	18	19	Hageman	Jonathan Alders HS	Gibraltar Island	Aquatic Science Workshop			9		
2002	4	18		Lichtkoppler	Lake Erie Coastal Ohio Board	Vermilion	LE Tourism	24				
2002	4	18		Lichtkoppler	Fairport Harbor Rod & Reel	Fairport Harbor	Lake Erie Issues	45				
2002	4	18		Snyder	Coastal Ohio Tourism Board	Vermilion	Board Meeting	22				
2002	4	18		Hageman	Wynford HS	Gibraltar Island	Aquatic Science Workshop			23		
2002	4	18		Hageman	Tetra Tech Inc.	Put-In-Bay	Davis-Besse Info	3				
2002	4	18		Lucente	Fred Snyder & Dave Kelch, OSU Sea G	Toledo	West. Basin Artificial Reef Conf. Q	3	x			
2002	4	18		kelch	OSG conference call	elyria	western basin artificial reef					x
2002	4	19		Lichtkoppler	Citizens & Developers	Mentor	Wetland Mitigation	9				
2002	4	19		Lichtkoppler	ODNR, Lake Erie Office	Conference Call	LE Protection Fund Grant Review	7				
2002	4	19		Hageman	Kenwood Elementary II	Gibraltar Island	Aquatic Science Workshop			38		
2002	4	20	21	Hageman	Friends of Stone Lab	Gibraltar Island	Work Weekend			25		
2002	4	20		kelch	fin-feather fur outfitters sports store	ashland	lake erie angling update seminar	55				
2002	4	23	24	Hageman	Kelley's Island School	Gibraltar Island	Aquatic Science Workshop			9		
2002	4	23	24	Hageman	Jackson MS	Gibraltar Island	Aquatic Science Workshop			35		
2002	4	23		kelch	submerged lands adv comm mtg	lorain	shipwreck buoys, u/w preserve	13				
2002	4	24		Lichtkoppler	Project Committee ARP	Ashtabula	River Dredging	14				
2002	4	24		Lichtkoppler	Coordinating Committee ARP	Ashtabula	Project Coordination	12				
2002	4	24		Lucente	Greg Davis, OSU Extension	Findlay	SPSS Database Information Input	2	x			
2002	4	24		kelch	lorain city visitors bureau board mtg.	lorain	planning, relocation, tourism	19				
2002	4	25	26	Hageman	Sewickley AcademyMS	Gibraltar Island	Aquatic Science Workshop			70		
2002	4	25		Lichtkoppler	Chagrin River Salmon Association	Eastlake	Lake Erie Fisheries	41				
2002	4	25		Hageman	Shadows from A.I. Root MS	Gibraltar Island	Shadow Students			5		
2002	4	25		Hageman	Mallory Hageman	Gibraltar Island	Take Daughter to Work Day	4				
2002	4	25		Lucente	University of Toledo	Toledo	Brownfields Conference	120				
2002	4	25		kelch	north coast bass anglers club	avon lake	smallmouth & lake levels	14				
2002	4	26	27	Hageman	Kent State University	Gibraltar Island	Research Trip			5		
2002	4	26		Lichtkoppler	OSU Extension Staff	Wooster	OSU Ext. NE Dist. Sp. Conference	100				
2002	4	26		Snyder	Portage Elementary School	Port Clinton	Youth Fishing Program	45				
2002	4	26		Williams	University of Toledo	Toledo	Brownfields Conference	120				
2002	4	26		Williams	OEDC TBZ	Columbus	Business Retention	12				
2002	4	26		Williams	Extension program	Medina	Company visit	2				
2002	4	26		kelch	oces ne district spring conference	brunswick	extension & university updates					x
2002	4	29	30	Hageman	Mills School I (MS)	Gibraltar Island	Aquatic Science Workshop			44		
2002	4	29		Lichtkoppler	Congressman Steven LaTourette	Painesville	Wetland Mitigation & USACE	10				
2002	4	29		Lichtkoppler	Sea Grant Ext. Program Leaders	Conference Call	Fisheries Extension	10				
2002	4	29		Snyder	GLSGN Program Leaders Conf. Call	Port Clinton	Activity Planning	8				
2002	4	29		Snyder	Fulton Co. Pond Owners	Archbold	Farm Pond Management	34				
2002	4	29		Hageman	Kelly Krupa	Columbus	Ichthyoplankton ID	5				
2002	4	30	1	Hageman	Mills School II (MS)	Gibraltar Island	Aquatic Science Workshop			48		
2002	4	30		Lichtkoppler	Ohio Sea Grant Staff	Columbus	Staff Conference	12			x	

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2002	4	30		Snyder	Ohio Sea Grant Staff	Columbus	Staff Meeting	9				
2002	4	30		Snyder	Erie Co. OSU Alumni	Huron	OSU Lake Erie Program	96		x		
2002	4	30		Hageman	Ohio Sea Grant Extension	Columbus	Meeting	12				
2002	4	30		Lucente	Ohio Sea Grant Staff Mtg.	Columbus	Sea Grant Staff Mtg.	10				
2002	4	30		Kelch	OSG director/agents meeting	Columbus	sea grant planning				x	
2002	4	2		Hageman	Millis School III (MS)	Gibraltar Island	Aquatic Science Workshop			44		
2002	5	1		Snyder	Tourism Officials and Agencies	Huron	Coastal Decision-making Workshop	50			35	
2002	5	1		Lucente	Coastal Decision Makers	Huron	Coastal Decision-making Workshop					
2002	5	2		Hageman	Millis School IV (MS)	Gibraltar Island	Aquatic Science Workshop			45		
2002	5	2		Snyder	Outdoor Writers of Ohio, Inc.	Shawnee State Park	Annual Conference	67				
2002	5	2		Lucente	Toledo Chamber of Commerce	Toledo	Nuts and Bolts of Running a Cam	5	x			
2002	5	2		Williams	Business Owners	Cleveland	Maximize the value of your Business	10				
2002	5	3		Hageman	OSU Limnology	Gibraltar Island	Field Trip			29		
2002	5	3		Hageman	St. Edwards HS	Gibraltar Island	Aquatic Science Workshop			28		
2002	5	3		Lucente	Jerry Thomas, OSU Extension	Toledo	PPST Monitoring Visit	2	x			
2002	5	3		Williams	Business Expansion	Euclid	Company visit	2				
2002	5	4		Hageman	Ohio Staters	Gibraltar Island	Aquatic Science Workshop			15		
2002	5	6		Hageman	Millis School V (MS)	Gibraltar Island	Aquatic Science Workshop			38		
2002	5	6		Lucente	Business Retention & Expansion Intern	Memphis, TN	BREI Professional Certification Co	120				
2002	5	7		Hageman	Millis School VI (MS)	Gibraltar Island	Aquatic Science Workshop			44		
2002	5	7		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marine Development	14				
2002	5	7		Hageman	Elderhostel I	Gibraltar Island	Aquatic Science Workshop	95			31	
2002	5	7		Kelch	Iorain city swt-extension pond clinic	elyria	barley straw, algae control					
2002	5	8		Hageman	Millis School VII (MS)	Gibraltar Island	Aquatic Science Workshop			48		
2002	5	8		Williams	BREI annual Conference	Memphis	Annual Conference	253				
2002	5	8		Snyder	Lake Erie Buffer Team	Tiffin	Final Stage Planning	13				
2002	5	8		Snyder	Coastal Ohio Tourism	Sandusky	Staff & Board Development Comm	4				
2002	5	8		Kelch	OSU Ag Faculty Council Mtg	Columbus	faculty issues/concerns					
2002	5	9		Hageman	Miamisburg MS	Gibraltar Island	Aquatic Science Workshop			62		
2002	5	9		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	15				
2002	5	9		Lichtkoppler	Farmland Preservation Taskforce	Painesville	Land Use Survey Results	22				
2002	5	9		Snyder	GLSGN HACCP Baitfish Conf. Call	Port Clinton	USFWS Training Effort	5				
2002	5	9		Kelch	Kelleys Island u/w preserve committee	sandusky (p.m.)	u/w preserve planning				x	
2002	5	9		Kelch	west cleveland walleye association	cleveland	fishery updates	47				
2002	5	9		Hageman	St. Ignatius of Antioch ES	Gibraltar Island	Aquatic Science Workshop			28		
2002	5	10		Williams	Communication report	Memphis	Annual Conference	35				
2002	5	11		Williams	Tourism & Retail R&E	Memphis	Annual Conference	32				
2002	5	13		Hageman	West Carrollton MS	Gibraltar Island	Aquatic Science Workshop			45		
2002	5	13		Hageman	All Saints Catholic School MS	Gibraltar Island	Aquatic Science Workshop			28		
2002	5	13		Hageman	Bi-Centennial Committee	Put-In-Bay	Ohio's Bi-Cent Celebration Plan					9
2002	5	13		Lucente	Ottawa County officials	Port Clinton	Ottawa County BR&E Program	28	x			
2002	5	13		Williams	Money 2000	Cleveland	PET	28				
2002	5	13		Kelch	Kelleys Island 4-H camp	Kelleys Island	sea camp work day for equip.					x
2002	5	14		Lichtkoppler	Waterways Adventure	Ashtabula	Exotic Species In Lake Erie	90				
2002	5	14		Hageman	Ecole Kenwood ES	Gibraltar Island	Aquatic Science Workshop			19		
2002	5	14		Hageman	Elderhostel II	Gibraltar Island	Aquatic Science Workshop			31		
2002	5	14		Williams	Environment	Peninsula	Cuyahoga Rap	26				
2002	5	15		Hageman	Village Academy	Gibraltar Island	Aquatic Science Workshop			29		
2002	5	15		Snyder	District Office	Findlay	Computer Pick-up	4				
2002	5	15		Hageman	S. Central Jr. High	Gibraltar Island	Aquatic Science Workshop		x		19	
2002	5	15		Lucente	Greg Davis, OSU Extension	Findlay	SPSS Data Info.	2				
2002	5	15		Williams	Money 2000	Cleveland	PET	25				
2002	5	15		Kelch	zigan's nursery & crawfish farm	north ridgeville	barley straw, algae control	4				
2002	5	16		Hageman	Perry/McCord MS	Gibraltar Island	Aquatic Science Workshop			66		
2002	5	16		Snyder	NW District Office Staff	Findlay	Aquatic Science Workshop	12				
2002	5	16		Kelch	north coast bass anglers club	avon lake	Office Conference	16				
2002	5	17		Lichtkoppler	Lake Erie Coastal Ohio Ex Comm	Elyria	LE Tourism	8				

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2002	5	18		Hageman	Girl Scout Troop #635	Gibraltar Island	Aquatic Science Workshop				17	
2002	5	20	21	Hageman	Norfolk Hills MS	Gibraltar Island	Aquatic Science Workshop				32	
2002	5	20		Hageman	Clay HS	Gibraltar Island	Aquatic Science Workshop				34	
2002	5	20		Hageman	Ladyfield Catholic I MS	Gibraltar Island	Aquatic Science Workshop				34	
2002	5	20		Williams	Money 2000	Cleveland	PET	26				
2002	5	20		Williams	Future forum	Cleveland	Future issue form	26				
2002	5	20		Williams	Business Retention	Conference call	Bral Br. Mtg	15				
2002	5	21		Lichtkoppler	Mentor Area Regional Coalition Ex Com	Mentor	SAMP Management	8				
2002	5	21		Lichtkoppler	Mentor Area Regional Coalition	Mentor	SAMP Planning	12				
2002	5	21		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Planning	15			x	
2002	5	21		Hageman	Ladyfield Catholic II MS	Gibraltar Island	Aquatic Science Workshop				34	
2002	5	21		Hageman	Elderhostel III	Gibraltar Island	Aquatic Science Workshop				31	
2002	5	21		Hageman	Olmsted Falls HS	Gibraltar Island	Facilities Tour				26	
2002	5	22	23	Hageman	Toledo Horizons MS	Gibraltar Island	Aquatic Science Workshop				68	
2002	5	22		Lichtkoppler	Project Committee ARP	Ashabula	River Dredging	13				
2002	5	22		Lichtkoppler	Coordinating Committee ARP	Ashabula	Project Coordination	16				
2002	5	22		Hageman	Springfield South HS	Gibraltar Island	Aquatic Science Workshop				12	
2002	5	22		kelch	Iorain cty. visitors bureau board mtg.	Iorain	planning, relocation, tourism					x
2002	5	23	24	Hageman	Erwine MS	Gibraltar Island	Aquatic Science Workshop				45	
2002	5	23	24	Hageman	Englewood ES	Gibraltar Island	Aquatic Science Workshop				15	
2002	5	23		Lichtkoppler	NE Ohio SG Committee	Unionville	Committee Members	6				
2002	5	23		kelch	g.m. retired mgt workers association	elyria	presentation: changes in L. Erie	56				
2002	5	24		Lichtkoppler	ODNR, Wildlife	Sandusky	SGODNR Fisheries Cooperation	12				
2002	5	24		Snyder	Sea Grant & Division of Wildlife Staff	Sandusky	Issues Resolution	9				11
2002	5	24		Hageman	Division of Wildlife	Sandusky	Cooperation Mtg					
2002	5	24		kelch	odm/rtdow & osg meeting	Sandusky	updates, planning					x
2002	5	25		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh House Improvements	9				
2002	5	28	29	Hageman	Buckeye Valley MS	Gibraltar Island	Aquatic Science Workshop				42	
2002	5	28		Lichtkoppler	Personnel Committee ARP	Ashabula	Candidate Search	5				
2002	5	28		Snyder	Great Lakes ANS Panel	Put-in-Bay	Lake Erie Fisheries	16				
2002	5	28		Williams	Business Excel planning	Sandusky	Business Excel	4				
2002	5	28		kelch	submerged lands adv comm mtg	Iorain	public hearing, shipwreck buoys					x
2002	5	29	30	Hageman	Great Lakes Commission	Gibraltar Island	Aquatic Science Workshop				63	
2002	5	29		Hageman	Northwood Boys MS	Gibraltar Island	Aquatic Science Workshop				39	
2002	5	29		Lucette	Toledo Chamber of Commerce	Toledo	Local Govt. Leadership Academy	15	x		x	
2002	5	29		Lucette	NW District	Findlay	Leadership Roundtable	25	x		x	
2002	5	29		Williams	What can the university do?	Cleveland	President of OSU in Cleveland	38				
2002	5	29		Williams	Money 2000	Cleveland	PET	25				
2002	5	30	31	Hageman	Jones Jr. High	Gibraltar Island	Aquatic Science Workshop				36	
2002	5	30		Snyder	NW Sea Grant Ext. Advisory Comm.	Sandusky	Program Overview & Planning	14			x	
2002	5	30		Hageman	Northwood Girls MS	Gibraltar Island	Aquatic Science Workshop				28	
2002	5	30		Lucette	NW OH Sea Grant Advisory Committee	Sandusky	Advisory Committee Mtg.	16				
2002	5	30		Williams	Can Gov. financing program help you?	Cleveland	Business Training	5				
2002	5	31		Lichtkoppler	Dana Oleskiewicz	Painesville	Performance Review	2				
2002	5	31		Hageman	Lake HS	Gibraltar Island	Aquatic Science Workshop				23	
2002	5	31		Lucette	Business Retention & Expansion Interns	Toledo	Conference Call	20	x		x	
2002	5	31		Lucette	OH Sea Grant	Toledo	Internet Board Conference Call	8				
2002	5	31		Williams	What Can Extension do in Cuyahoga	Cleveland	plan for outdoor writer fam trips	2				
2002	5	31		kelch	lev/ciboda mtg. for outdoor writers	Iorain	IAGLR Extension Seminar	14				
2002	6	1	8	Lichtkoppler	Researchers, Extension Agents	Winnipeg Canada	Aquatic Science Workshop	35				
2002	6	1		Hageman	William Co Watershed Ecol	Gibraltar Island	Facilities Tour				15	
2002	6	3		Hageman	Lorain Co Extension Office	Gibraltar Island	Aquatic Science Workshop				23	
2002	6	3		Hageman	OSU Lima-Reaching out to Youth	Gibraltar Island	Aquatic Science Workshop				16	
2002	6	3		Lucette	Don Lacy, OSU Extension	Toledo	Conference Call	2			x	
2002	6	3		Williams	PET	Cleveland	PET	20				
2002	6	3		kelch	n.e. district fcs agents retreat/mtg	f.f. stone lab	presentation: fish consumption	37				
2002	6	4		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Development	13			x	

YEAR	MONTH	DAY1	DAY2	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP/No.	MASS MEDIA
2002	6	4		Hageman	Laurel ES	Gibraltar Island	Aquatic Science Workshop			45		
2002	6	4		kelch	lvb/chcoba mtg for outdoor writers	Iorain	final planning: outdoor writers	12				
2002	6	5		Snyder	Port Clinton News Herald Interview	Port Clinton	Mayfly Outlook					XX
2002	6	5		Hageman	Whiteford MS	Gibraltar Island	Aquatic Science Workshop			79		
2002	6	5		kelch	twif-women in the outdoors org.	elyria	fishing, fish handling/preparation	22				
2002	6	7		Hageman	OSU A.B.E. Ctr	Gibraltar Island	Conference			21		
2002	6	6		Snyder	Ohio Envirothon Students	Oak Harbor	Aquatic Nuisance Species	12				
2002	6	6		Hageman	Grizzeal MS	Gibraltar Island	Aquatic Science Workshop			61		
2002	6	6		kelch	cleveland fishing association club	cleveland	art reefs side scan sonar research	63				
2002	6	7		Hageman	Columbus Athletic Club	Catawba Island	Judge Walleye Tournament	90				
2002	6	7		Lucente	Fred Snyder, OSU Sea Grant	Port Clinton	Mentoring Activities	2	x		x	
2002	6	9	15	Hageman	Eady Offshore EEO 125 w01	Gibraltar Island	Orientation	2			16	
2002	6	10	12	Hageman	The Nature Conservancy	Gibraltar Island	Conference			25		
2002	6	10		Lucente	Greg Davis, OSU Extension	Toledo	Leadership Web Site Development	2			x	
2002	6	11		kelch	cleveland marine towing & salvage	cleveland	art reef video diver training	8				
2002	6	12		Lichtkoppler	Ohio Sea Grant Staff	Conference Call	SG Planning	8				
2002	6	12		Snyder	Sea Grant Staff	Port Clinton	Admin. Conference Call	7				
2002	6	12		Hageman	Girl Scout Troop #60	Gibraltar Island	Aquatic Science Workshop			8		
2002	6	12		Lucente	Ohio Sea Grant Conference Call	Toledo	Sea Grant Staff Conference Call	8				
2002	6	12		kelch	OSG conference call	elyria	sea grant/legis day planning				x	
2002	6	13		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14				
2002	6	13		Snyder	WOSU-FM Interview	Fremont	Lake Erie Fisheries					XX
2002	6	13		Hageman	Huron Co SWCD	Gibraltar Island	Aquatic Science Workshop			33		
2002	6	13		Lucente	NW Ohio Regional Econ. Dev. Association	Toledo	NORED Mtg.	42				
2002	6	13		kelch	westlake sportsman club	westlake	fish consumption advisories	59				
2002	6	14		Lucente	Business Retention and Expansion Intf	Toledo	Conference Call	12			x	
2002	6	15		kelch	Issac Walton League handicap day	medina	handicap fishing, cleaning, prep	89				
2002	6	16		Hageman	GEO 107, EEO 126, NAT 694w02	Gibraltar Island	Orientation	51				
2002	6	17		Lucente	Coastal Businesses in Lucas County	Toledo	Deliver waterfront guides to busin	20			x	
2002	6	17		Williams	BREI Conference call	Cleveland	Brel Br. Mtg	15				
2002	6	18		Lichtkoppler	Mentor Area Regional Coalition	Mentor	SAMP Planning	8				
2002	6	18		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Development	17			x	
2002	6	18		Snyder	Fosteria Focus Newspaper Interview	Port Clinton	Lake Erie Water Levels					XX
2002	6	18		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Lisa Bircher "Teacher Methods"			24		
2002	6	18		Williams	Future form	Conference call		6				
2002	6	18		kelch	Iorain city visitors bureau board mtg.	Iorain	policy sub committee mtg	8				
2002	6	19		Lichtkoppler	Ashtabula Co. Ext. Adv. Committee	Jefferson	Sea Grant Update	12				
2002	6	19		Snyder	NW District Office Staff	Findlay	Staff Meeting	14				
2002	6	19		Lucente	Sea Grant, LECBA, ODNR/DOW, WSC	Port Clinton	Western Basin Artificial Reef Mtg.	10			x	
2002	6	19		kelch	sea camp conference call	elyria	final sea camp planning	7				
2002	6	20		kelch	odnr/dow & osg meeting	port clinton	western basin reef mtg	35				
2002	6	20		Lichtkoppler	Citizens	Mentor	Lake Erie Coastal Ohio			54		
2002	6	20		Hageman	Visitors for Guest Lecture	Gibraltar Island	Chris Jones, OEPA "Envir. Issues"					
2002	6	20		kelch	Iorain city bass busters club	grafton	smallmouth update, tagging	18				
2002	6	21		Snyder	Toledo Blade Interview	Port Clinton	Mayfly Outlook					XX
2002	6	23		Hageman	Term 1	Gibraltar Island	Orientation			42		
2002	6	23		Hageman	Nat 694w03, EEO 698	Gibraltar Island	Orientation			11		
2002	6	24		Lichtkoppler	Sea Grant Staff	Conference Call	Steelhead Survey	4	x			XX
2002	6	24		Snyder	Port Clinton News Herald Interview	Port Clinton	Mayfly Outlook					
2002	6	24		Lucente	Don Lacy, OSU Extension	Toledo	Set up for poster session at ALE	2			x	
2002	6	24		kelch	osg conference call-steelhead survey	elyria	planning for steelhead survey					
2002	6	25		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Gustav Vanderber "Solpurns in Na			55		
2002	6	25		kelch	uscae harbor planning meeting	Iorain	Invited meeting-harbor planning	21				x
2002	6	26		Lichtkoppler	Project Committee ARP	Ashtabula	River Dredging					
2002	6	26		Lichtkoppler	Coordinating Committee ARP	Ashtabula	Project Coordination	18				
2002	6	26		Hageman	Division of Wildlife, Specialists	Gibraltar Island	Facilities Tour	9				
2002	6	26		kelch	Iorain city visitors bureau board mtg.	Iorain	tourism, building relocation, plans				x	

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2002	6	26		kelch	g.m. retired mgt workers association	Elyria	fish consumption advisories	61				
2002	6	27		Lichtkoppler	GL Sea Grant Agents	Cleveland	Fisheries Extension Grants	16	x			
2002	6	27		Snyder	GLSON Fisheries Ext. Group	Cleveland	Proposal Planning	15				
2002	6	27		Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. Jane Forsyth "Lake Erie Geologic Annual Protocol Inspection"			60	30	
2002	6	28		Hageman	OSU Office of Research	Stone Laboratory	Lake Erie Issues Overview	46				
2002	6	29		Snyder	Kelleys Island Audubon Club	Kelleys Island	Orientation	6		22		
2002	6	30		Hageman	EE0 522 & EEO 125	Gibraltar Island	teaching youth about Lake Erie	90				
2002	7	1	5	kelch	19th Annual Ohio 4-H Sea Camp	Kelleys Island	lure making, fish I.D.	90				
2002	7	1		Lucente	19th Annual Ohio 4-H Sea Camp	Kelleys Island	Pick up Office Computers	2				
2002	7	1		Snyder	NW District Computer Tech	Port Clinton	Computer Training				2	
2002	7	2		kelch	19th Annual Ohio 4-H Sea Camp	Kelleys Island	fish biology, angling techniques	90				
2002	7	2		Lucente	Bowling Green State University	Bowling Green	Taught Graduate Class Econ. Dev.	10	x			
2002	7	2		Hageman	Put-in-Bay Yacht Club	Gibraltar Island	Facilities Tour and Lunch	42				
2002	7	2		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Ken Krieger, "Mayflies"	55				
2002	7	2		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Development	16				
2002	7	3		kelch	19th Annual Ohio 4-H Sea Camp	Kelleys Island	boat angling, fish cleaning, prep	90				
2002	7	4		Hageman	Bi-Centennial Committee	LEHS	Select Photo's for Display				2	
2002	7	4		Hageman	Visitors for Guest Lecture	Gibraltar Island	C.E. Herdendorf, "L.E. Shipwrecks"					
2002	7	7		Hageman	EE0 110	Gibraltar Island	Orientation	7				
2002	7	8		Lichtkoppler	OSUE Lake CO Staff	Painesville	Diversity Audit	12				
2002	7	8		kelch	OSG conference call	Elyria	OSG planning					
2002	7	8		Snyder	Sea Grant Staff	Port Clinton	Program Conference Call	6			x	
2002	7	9		Lichtkoppler	County Officials	Grand River	Coastal Development	34				
2002	7	9		Hageman	Bowling Green State University-I	Gibraltar Island	Summer Governor's Institute			54		
2002	7	9		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Paul Geinzman, "MS Exit Interview"			25		
2002	7	9		Williams	NSL Analytical**	Valley View	Business Development	4				
2002	7	9		Williams	Cuyahoga RAP social Committee	Peminsula	Resource funding	12				
2002	7	10		Lucente	Allen County Extension Office	Lima	Facilitator/Moderator Training	10				
2002	7	10		Hageman	Green Co. Parks	Gibraltar Island	Aquatic Science Workshop			8		
2002	7	10		Williams	Extension Agents/CD	Cleveland	Extension	6				
2002	7	10		Snyder	Erie, PA Times Newspaper Interview	Port Clinton	Goby Effects in Lake Erie					XX
2002	7	11		Lucente	NW Ohio Regional Econ. Dev. Association	Toledo	NORED Mtg.	43				
2002	7	11		Hageman	Cleveland Scholarship Program-I	Gibraltar Island	Aquatic Science Workshop			46		
2002	7	11		Hageman	Visitors for Guest Lecture	Gibraltar Island	Richard King, "L.E. Water Snakes"			50		
2002	7	11		Williams	County web page	Cleveland	Web design	3				
2002	7	12		Lichtkoppler	Lake Erie Coastal Ohio	Elyria	Coastal Tourism				5	
2002	7	12		Lucente	Association of Leadership Educator's C	Lexington, KY	Local Government Leadership Pre	60	x			
2002	7	12		Hageman	O.S.U. Master Gardeners	Gibraltar Island	Touch-up Flower Gardens			10		
2002	7	12		Hageman	Dr. Brett Nichols	Peach Pt. Rsch Lab	Fish Parasite Rsch Project			3		
2002	7	12		Williams	Communication report	Conference call	communication committee	5				
2002	7	12		Snyder	Erie, PA Times Newspaper Interview	Port Clinton	Lake Erie Water Temperatures					XX
2002	7	13		Lucente	Association of Leadership Educator's C	Lexington, KY	Local Government Leadership Pre	60	x			
2002	7	14		Hageman	EE0B 692	Peach Pt. Rsch Lab	Ichthyoplankton ID Workshop	14				
2002	7	15		Hageman	Ottawa Co. Commissioners	Gibraltar Island	Facilities Tour			10		
2002	7	15		Williams	BREI Conference call	Gibraltar Island	Facilities Tour	15				
2002	7	15		Snyder	Nancy Recker, Allen Co. Ext.	Lima	Bret Br. Mtg	3				
2002	7	16		kelch	advanced pond clinic plan+F65ring mtg	wooster	Promotion & Tenure	5				
2002	7	16		Hageman	Bowling Green State University-II	Gibraltar Island	plan for 2003 district in-service					
2002	7	16		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Summer Governor's Institute			54		
2002	7	16		Hageman	Jackson Smith	Gibraltar Island	Carolyn Merry, "Landsat-7"			25		
2002	7	16		Williams	NSL Analytical**	Client Visit	Facilities Tour	3				
2002	7	16		Williams	Dike 14 exploration committee	Cleveland	Business Development	39				
2002	7	16		Snyder	Lake Erie Buffer Team	Tiffin	Update Meeting	12				
2002	7	16		Snyder	USA Today Interview	Port Clinton	Lake Erie ANS interview					XX
2002	7	16		Snyder	Lucas County Farm Pond Owners	Whitehouse	Pond Management	45				
2002	7	17		Hageman	Port Clinton Kiwanis Club	Port Clinton	Stone Lab Overview	36				

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2002	7	17		Williams	Cleveland Art/Living Survey	Cleveland	Retention survey	4				
2002	7	17		Williams	National TBZ	Cleveland	Business Attraction	12				
2002	7	18		Lucente	NW District Office Staff	Put-In-Bay	District Office Retreat	28				
2002	7	18		Hageman	O.S.U.-N.W. District Extension Office	Gibraltar Island	Summer Staff Meeting				18	
2002	7	18		Hageman	Cleveland Scholarship Program -II	Gibraltar Island	Aquatic Science Workshop			46		
2002	7	18		Hageman	Visitors for Guest Lecture	Gibraltar Island	Bobby Moser, "Ohio Agriculture"			35		
2002	7	18		Williams	Portland Sea Grant Conference call	Conference call	Sustainable development	3				
2002	7	18		Snyder	NW District Office Staff	Put-In-Bay	Office Retreat	18				
2002	7	19		Lichtkoppler	State & Federal Legislators	Sandusky, Put-In-Bay	State-Fed Legis Day on Lake Erie	200				
2002	7	19		kelch	State & Federal Legislators	Sandusky, Put-In-Bay	State-Fed Legis Day on Lake Erie	200				
2002	7	19		Lucente	State & Federal Legislators	Sandusky, Put-In-Bay	State-Fed Legis Day on Lake Erie	200				
2002	7	19		Hageman	State & Federal Legislators	Sandusky, Put-In-Bay	State-Fed Legis Day on Lake Erie	200				
2002	7	19		Williams	State & Federal Legislators	Sandusky, Put-In-Bay	State-Fed Legis Day on Lake Erie	200				
2002	7	19		Snyder	State & Federal Legislators	Sandusky, Put-In-Bay	State-Fed Legis Day on Lake Erie	200		x		
2002	7	20		Hageman	Kent State University	Gibraltar Island	Facilities Tour	22				
2002	7	23		Hageman	Maxwell Glehill, C.O.S.I.	Peach Pt. Rock Lab	Exotic Species Video				6	
2002	7	23		Hageman	Stone Lab Faculty & Students	Gibraltar Island	C.L. Smith, "Underwater Observations"			25		
2002	7	24		Lichtkoppler	ARP Project	Ashtabula	ARP Mgt	16				
2002	7	24		Lichtkoppler	ARP Project	Ashtabula	ARP Project	14				
2002	7	24		Lucente	Ottawa County Officials	Oak Harbor	Ottawa County BRE Program	28	x			
2002	7	25		Lucente	CBS Corridors Coalition	Toledo	CBS Corridors Coalition Mtg.	22			17	
2002	7	25		Hageman	Term Two Students	Gibraltar Island	Orientation	15				
2002	7	26		Lichtkoppler	Lake Erie Coastal Ohio	Cuyahoga Nat. Park	Coastal Tourism LSCO MGT				2	
2002	7	26		Hageman	Great Black-backed Gull	Buckeye Point	Release from Fishing Lure	15				
2002	7	26		Snyder	Lake Erie Coastal Ohio	Cuyahoga Nat. Park	Coastal Tourism LSCO MGT	34				
2002	7	27		Hageman	Pheasants-Forever State Chapter	Gibraltar Island	Summer Mtg/Aq. Sci. Workshop	2	x			
2002	7	29		Lucente	Jim Weidenheft, Ottawa County Ext.	Oak Harbor	Ottawa County BRE Program	2			2	
2002	7	29		Hageman	Bi-Centennial Committee	Put-In-Bay	Final Photo Selections					
2002	7	29		Snyder	Port Clinton News Herald Interview	Port Clinton	Ohio Sea Grant Message Board					
2002	7	30		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Tim Granata, "Coastal Circulation"	2	x			
2002	7	31		Lucente	John Conglose, Huron County Ext.	Oregon	Monitoring Activity	5				
2002	7	31		Hageman	O.S.U. Laboratory Animal Protocol	Gibraltar Island	Facilities Inspection					
2002	7	31		Hageman	Put-In-Bay Chamber of Commerce	Perry's Monument	Coastal Ohio Program				20	
2002	7	31		Williams	Regenerating cuyahoga county's Lake	Forum	Middleburgh Hts	43				
2002	7	31		Williams	Pet dinner	Cleveland	Cleveland	3				
2002	7	31		Snyder	Portage River Basin Council	Painesville	Basin Plan Overview	24				
2002	8	1		Lichtkoppler	Sea Grant Staff	Painesville	ANS Conference Call	12				
2002	8	1		Lucente	Sea Grant Staff	Toledo	ANS Conference Call	8				
2002	8	1		Hageman	Visitors for Guest Lecture	Gibraltar Island	Carol Stepien, "DNA"			50		
2002	8	1		Williams	Pet Partner mtg	Cleveland	Pet planning	6				
2002	8	1		Williams	Sea Grant Staff	Conference Call	ANS Conference Call	8				
2002	8	1		Williams	Thomas Hines law firm	top 100 calls	business retention	3				
2002	8	2		Lichtkoppler	Agency Officials	Toledo	LE Protection Fund Grants Comm	9				
2002	8	2		Lucente	Ottawa River Yacht Club	Toledo	Ottawa River Dredge Project	68				
2002	8	2		Hageman	Tom Loishaw, OSU Lantern	Gibraltar Island	Facilities Tour, S. L. Overview	2				
2002	8	3		Hageman	Lisa Richards/Mindy Thompson	Gibraltar Island	Facilities Tour	2				
2002	8	4		Hageman	NAT 694	Gibraltar Island	Orientation	14				
2002	8	5		kelch	OSU Ag Faculty Council Mtg	columbus	faculty issues/concerns				x	
2002	8	5		Lucente	Juanita Waits, Arizona State Univ. Ext.	Toledo	Conference Call for Leadership D	2				
2002	8	5		Snyder	Port Clinton News Herald Interview	Port Clinton	Lake Erie Dead Zone		x			XX
2002	8	5		Snyder	Cleveland Plain Dealer Interview	Port Clinton	Zebra and Quagga Mussels					XX
2002	8	6		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Geoff Steinhart, "SM Bass"			25		
2002	8	7		kelch	submerged lands adv comm mtg	Irahn	meet new CZM director, updates	14				
2002	8	7		Williams	Dike 14 exploration committee	Cleveland	Sea Grant	32				
2002	8	7		Snyder	GLSGN ANS Team	Chicago, IL	ANS Proposal Planning	14				
2002	8	8		kelch	west cleveland walleye association	cleveland	fish contaminants, advisories	46				
2002	8	8		Lucente	NW Ohio Regional Econ. Dev. Associa	Toledo	NORED Mtg.	43				

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2002	8	8		Lucente	Maumee RAP	Toledo	Maumee RAP Mtg.	26				
2002	8	8		Hageman	Mr. & Mrs. Al Quillin/Norm Landis	Gibraltar Island	Facilities Tour	4				
2002	8	8		Hageman	Ottawa Natl. Wildlife Refuge	Gibraltar Island	Facilities Tour	12				
2002	8	8		Hageman	Visitors for Guest Lecture	Gibraltar Island	Sam Speck, "ODNR"			42		
2002	8	9		Williams	APICS Professional organization	Cleveland	Business Retention	4				
2002	8	9		Williams	BREI Communication committee conf.c	Cleveland	Brel Br. Mtg	3				
2002	8	11		Hageman	ENT 126	Gibraltar Island	Orientation			5		
2002	8	12		Lichtkoppler	Lake Co. Staff	Painesville	LC Fair	8				
2002	8	12		Hageman	Marion Co. Rotary Club	Gibraltar Island	Meeting			12		
2002	8	13		Lichtkoppler	Sea Grant Staff	Wooster	Program Management	10			x	
2002	8	13		kelch	Sea Grant Staff	Wooster	Program Management	7				
2002	8	13		Lucente	Sea Grant Staff	Wooster	Program Management				8	
2002	8	13		Hageman	Ken Radtke Family & Guests	Gibraltar Island	Wedding @ Perry's Look-Out			40		
2002	8	13		Snyder	Sea Grant Staff	Wooster	Program Management	7			x	
2002	8	14		Lichtkoppler	OSU Students	Lake/Ashabula Counties	LE Coastal Issues	10				
2002	8	14		Lucente	NW Sea Grant Advisory Committee	Toledo	NW Sea Grant Advisory Committee	16	x		x	
2002	8	15	16	Hageman	Lake Erie Protection Fund	Gibraltar Island	Grant Making Comm. Mtg.			8		
2002	8	15	16	Hageman	Alber Enterprise Center	Gibraltar Island	Meeting			7		
2002	8	15		Lichtkoppler	OSU STAFF	Painesville	OHIO NEMO	4				
2002	8	15		kelch	westlake sportsman club	westlake	art reef side scan sonar research	39				
2002	8	15		Hageman	Visitors for Guest Lecture	Gibraltar Island	Chief Justice Thomas Moyer			41		
2002	8	15		Williams	Greater Cleveland Commercial Realtor	Cleveland	Business Attraction	3				
2002	8	15		Snyder	NW District Office Staff	Findlay	District Office Conference	14				
2002	8	16		Lucente	Ottawa County Officials	Oak Harbor	Ottawa County BRE Mtg.	16	x		x	
2002	8	18	24	Snyder	Stone Lab - EEOB 125	Put-in-Bay	Teach Intro to Aquatic Biology	150				
2002	8	19		Lucente	Jim Haren, Citizen	Toledo	Ottawa River Boat Tour	4				
2002	8	19		Williams	PET	Cleveland	Pet training	14				
2002	8	19		Williams	BREI Board mtg	Cleveland	conference call	16				
2002	8	20		Williams	Karen Patic-Tri-C education outreach	Cleveland	Eucation outreach	3				
2002	8	20		Williams	Mr. Office Corn	Cleveland	office location data search	8				
2002	8	21		Lichtkoppler	SG Faculty	Painesville	Steelhead Survey Conf. Call	3				
2002	8	21		kelch	OSG conference call	elyria	steelhead survey planning				x	
2002	8	21		Lucente	County Commissioners Days Participant	Perrysburg	Local Government Leadership Ac	24	x		x	
2002	8	21		Hageman	Tom Blaine, OSU Extension	Gibraltar Island	Coastal Rsch. Opportunities					5
2002	8	22		kelch	submerged lands adv comm mtg	sheffield	sub committee mtg. Update for	5				
2002	8	22		Lucente	Ann Moore, Toledo Chamber of Comm	Toledo	Leadership Academy 2003 Plann	2			x	
2002	8	22		Lucente	CBS Corridors Coalition	Toledo	CBS Corridors Coalition Mtg.	26				
2002	8	22		Hageman	Lisa Morris/Geo. Elmaraghy, Ohio EPA	Gibraltar Island	L. Erie Rsch. Opportunities					5
2002	8	22		Williams	Dike 14 exploration committee	Cleveland	Sea Grant	36				
2002	8	22		Williams	Congressional Visit tour	Cleveland	Pet program	4				
2002	8	23		Lichtkoppler	GS Staff	Painesville	Electronh Surveys	2				
2002	8	23		Lucente	Jim Weidenheft, Ottawa County Ext.	Oak Harbor	Ottawa County BRE Project Mtg.	2	x		x	
2002	8	23		Williams	Frank Lichtkoppler	Painesville	Electronic survey development	2				
2002	8	23		Snyder	NW District Director	Put-in-Bay	Teaching Evaluation	2				
2002	8	26	28	Hageman	OSU-Residence Life	Gibraltar Island	Conference			49		
2002	8	26		Williams	PET	Cleveland	Pre Employment	12				
2002	8	27		Lichtkoppler	Local Officials	Mentor	MARC Committee	8				
2002	8	27		Lucente	Nw District Office In-Service	Findlay	Evaluating Leadership Programs	18				
2002	8	27		Williams	Certified cities focus group	Breckville	first energy	29				
2002	8	28	29	Hageman	Phillips-Osborne, 7th. Grade	Gibraltar Island	Aquatic Science Workshop			11		
2002	8	28		Lichtkoppler	ARP /Public Officials	Ashabula	ARP Progress	48				
2002	8	28		kelch	lorain city visitors bureau board mtg.	lorain	tourism, lake erie update	23				
2002	8	28		Hageman	Larry Capitini, ILACUC	Stone Laboratory	Lab. Annual Protocol Mtg.	3				
2002	8	28		Williams	consultant-Harold Ralsenfield	Beachwood	Retail facilities	2				
2002	8	29	30	Hageman	Hathaway-Brown	Gibraltar Island	Aquatic Science Workshop			71		
2002	8	29		kelch	vermillion rotary club	vermillion	lake erie update presentation	34				

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2002	8	30		kelch	Iorain port authority, city f Iorain mtg	Iorain	harbor planning committee input	15				
2002	9	3		Williams	Cleveland's Community forum	Cleveland	Lakefront development	52				
2002	9	3		Snyder	Coastal Ohio	Sandusky	Development Committee Mtg	5				
2002	9	4	5	Hageman	Hillard Station 6th. Grade-I	Gibraltar Island	Aquatic Science Workshop			41		
2002	9	4		Lichtkoppler	Sea Grant Faculty	Elyria	ANS Grant Development	3				
2002	9	4		kelch	odmrdow & osg meeting	port Clinton	western basin art reef mtg	6				
2002	9	4		Lucente	Maumee RAP Pub. Outreach & Educati	Perrysburg	Maumee RAP Public Outreach &	5				
2002	9	4		Williams	Kennametal Consultation	Cleveland	Business Attraction	3				
2002	9	4		Snyder	Sea Grant Faculty	Elyria	ANS Grant Development	3				
2002	9	5	6	Hageman	Hillard Station 6th. Grade-II	Gibraltar Island	Aquatic Science Workshop			37		
2002	9	5		kelch	Iorain city visitors bureau board mtg.	Iorain	special relocation/budget mtg					
2002	9	5		Williams	BRE & Tri C community college	Weslake	Establishing an Business retention	12				
2002	9	5		Snyder	Eric Obert, Phil Moy	Port Clinton	ANS Conference call	2				
2002	9	6	8	Hageman	O.S.U. Council of Grad. Students	Gibraltar Island	Meeting			27		
2002	9	6		Hageman	Jefferson Elementary	Gibraltar Island	Aquatic Science Workshop			50		
2002	9	7		Snyder	GLSGN ANS Team	Port Clinton	ANS Conference call	7				
2002	9	7		kelch	fin-feather-fur outfitters sports store	ashland	short presentation: fall angling	46				
2002	9	9	10	Hageman	Bexley M.S.	Gibraltar Island	Aquatic Science Workshop			51		
2002	9	9		Lucente	Lucas County Staff	Toledo	Office Conference	16				
2002	9	9		Williams	Certified cities focus group	Brecksville	survey mtg	10				
2002	9	9		Williams	Mtg with John Conglose	Wooster	Mgt. Excel					
2002	9	9		Williams	PET	YMCA	Pre Employment	12				
2002	9	10	11	Hageman	Jonathan Alder H.S.	Gibraltar Island	Aquatic Science Workshop			31		
2002	9	10		Lichtkoppler	Grand River Partners	Madison	Watershed Protection	26				
2002	9	10		Hageman	Elderhostel - IV	Gibraltar Island	Aquatic Science Workshop			33		
2002	9	10		Hageman	Bi-Centennial Committee	LEHS	Ohio's Bi-Centennial Celebration Plan					8
2002	9	10		Williams	Expanding upward ***	Beachwood	Business planning	3				
2002	9	10		Williams	Social Economic Workgroup	Pennsila	Cuyahoga Rap	15				
2002	9	11		Lichtkoppler	Sea Grant Staff	Painesville	ANS Conference call	5				
2002	9	11		Lichtkoppler	Cleveland Museum Nat. Hist. Officials	Cleveland	Marsh Mgt & Education	12				
2002	9	11		Lucente	Sea Grant Staff	Toledo	ANS Conference call	5				
2002	9	11		Hageman	Sea Grant Staff	Put-In-Bay	ANS Conference call	5				
2002	9	11		Williams	Sea Grant Staff	Cleveland	ANS Conference call	5				
2002	9	11		Snyder	Sea Grant Staff	Port Clinton	ANS Conference call	5				
2002	9	12		Lichtkoppler	CMNH Mentor Marsh Board	Mentor	Marsh Mgt. / Land Use Issues	15				
2002	9	12		Lucente	NW Ohio Econ. Dev. Association	Toledo	NORED Mtg.	42				
2002	9	12		Williams	Cuyahoga River Valley tour	Cleveland	ISG site pre for development	90				
2002	9	12		Williams	Executive Tour	Cleveland	Business Development	16				
2002	9	12		Williams	Executive Tour	Cleveland	Business Development	16				
2002	9	13	15	Hageman	Friends of Stone Lab Board	Gibraltar Island	Annual Homecoming	22				
2002	9	13		Lichtkoppler	Lake Erie Coastal Ohio	Elyria	Coastal Tourism LSCO MGT	5				
2002	9	13		kelch	osu fall faculty meeting	columbus	faculty issues/concerns					x
2002	9	13		Hageman	Int'l. Assoc. Amusement Park Operators	Gibraltar Island	Facilities Tour	60				
2002	9	14		Hageman	Open House	Gibraltar Island	Facilities Tour	430				
2002	9	14		Hageman	Open House	S. Bass Lighthouse	Facilities Tour			180		
2002	9	14		Hageman	Friends of Stone Lab	Gibraltar Island	Annual Meeting	40				
2002	9	16	19	Lichtkoppler	Extension Educators	Traverse City, MI	National Extension Tourism Conf	110				
2002	9	16		Hageman	Avon H.S.	Gibraltar Island	Aquatic Science Workshop			26		
2002	9	16		Hageman	Anharst Steele H.S.	Gibraltar Island	Aquatic Science Workshop			100		
2002	9	16		Hageman	Phasants-Forever Board	Oak Harbor	Monthly Meeting					3
2002	9	16		Williams	PET	Cleveland	Pre Employment	12				
2002	9	17	18	Hageman	Bellefontaine H.S.	Gibraltar Island	Aquatic Science Workshop			12		
2002	9	17		kelch	elyria lions club	elyria	lake ente update presentation	43				
2002	9	17		Hageman	Elderhostel - V	Gibraltar Island	Aquatic Science Workshop			30		
2002	9	17		Hageman	Bataan Memorial Elementary	Gibraltar Island	Aquatic Science Workshop			44		
2002	9	17		Williams	ITEC show	Brookpark	Business Retention					
2002	9	17		Williams	CB Commercial	Cleveland	Business Attraction	4				

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2002	9	17		Williams	Dike 14 public mtg	Cleveland	Land use	60				
2002	9	17		Williams	downtown office crisis	Cleveland	Business Retention	33				
2002	9	17		Williams	TBZ	Cleveland	Business attraction	12				
2002	9	17		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Development	15				
2002	9	18		Hageman	Genoa H.S. German Club	Gibraltar Island	Facilities Tour			x		
2002	9	18		Hageman	Chapter 074, Ducks Unlimited	Put-in-Bay	Annual Fundraiser Banquet			23	110	
2002	9	18		Williams	Northcoast Growth alliance	Cleveland	Business retention	5				
2002	9	18		Lucette	Ottawa County Officials	Oak Harbor	Ottawa County BRE Task Force N	16	x			
2002	9	19		Hageman	St. Vincent De Paul, 8th. Grade	Gibraltar Island	Aquatic Science Workshop			29		
2002	9	19		Snyder	NW District Office Staff	Findlay	District Staff Meeting	13				
2002	9	19		Snyder	NW District Evaluation Team	Findlay	Inservise Planning	5		x		
2002	9	20	21	Hageman	Assoc. of Diving Contractors	Stone Laboratory	Conference			40		
2002	9	20		kelch	extension in-service mtg	wooster	volunteer screening workshop				x	
2002	9	20		Hageman	McCormick 5th. Grade	Gibraltar Island	Facilities Tour			131		
2002	9	20		Williams	Business Resource Panel	Cleveland	Business Retention	16				
2002	9	20		Williams	Pet	Cleveland	Graduation of students	12				
2002	9	20		Snyder	Ottawa County Fifth Grade Students	Oak Harbor	Aquatic Science	550				
2002	9	21		Hageman	Heidelberg Ichthyology Class	Gibraltar Island	Fish Trawl/Labs			7		
2002	9	21		Hageman	Girl Scout Troop #926	Gibraltar Island	Aquatic Science Workshop			11		
2002	9	21		Hageman	Black River M.S.	Gibraltar Island	Aquatic Science Workshop			17		
2002	9	23	24	Hageman	Brecksville H.S.	Gibraltar Island	Aquatic Science Workshop			16		
2002	9	23		Lichtkoppler	OSU Extension Staff	Painesville	Office Mgt	12				
2002	9	23		Lucette	Lucas County Staff	Toledo	On-Site Diversity Review	14				
2002	9	23		Hageman	Rosanne Forner	Gibraltar Island	Distance Learning Filming			3		
2002	9	23		Hageman	West Holmes H.S.	Gibraltar Island	Aquatic Science Workshop			17		
2002	9	24		Lichtkoppler	Agency Officials	Mentor	SAMP / MARC Waterstnd Mgt.	8				
2002	9	24		kelch	conference call: 03 district pond inserv	elyria	planning for 2003 pond clinic				x	
2002	9	24		Lucette	Variety of Public Officials	Cleveland	Urban Land Use Video Conference	40				
2002	9	24		Hageman	Gilbsburg M.S.	Gibraltar Island	Facilities Tour			104		
2002	9	24		Hageman	Elderhostel-VI	Gibraltar Island	Aquatic Science Workshop			30		
2002	9	24		Williams	Video feed from Portland	Cleveland	economic development	48				
2002	9	25	26	Hageman	The Wellington School 7th. Grade	Gibraltar Island	Aquatic Science Workshop			59		
2002	9	25		Lichtkoppler	ARP Coordinating	Ashtabula	ARP Mgt	15				
2002	9	25		Lichtkoppler	ARP Project	Ashtabula	APR Project	14				
2002	9	25		kelch	Iorain div. Visitors bureau board mtg.	Iorain	tourism, relocation, budgets				x	
2002	9	25		kelch	NE district P&T committee	wooster	review/recommend P&T applicants				x	
2002	9	25		Hageman	Portage School 6th. Grade	Gibraltar Island	Aquatic Science Workshop			46		
2002	9	25		Snyder	Sandusky Co. Fourth Grade Students	Fremont	Aquatic Science	240				
2002	9	26		Lichtkoppler	LE Steelheaders	Cleveland	Steelhead Survey	12				
2002	9	26		Lucette	CBS Corridors Coalition	Toledo	CBS Corridors Coalition Mtg.	20				
2002	9	26		Williams	Heidman Steel ***	Cleveland	Business Expansion	16				
2002	9	26		Williams	AMS***	Cleveland	Business Expansion	4				
2002	9	27	28	Hageman	Milford Jr. High	Gibraltar Island	Aquatic Science Workshop			72		
2002	9	27		Hageman	St. Marys of the Falls 8th. Grade	Gibraltar Island	Aquatic Science Workshop			19		
2002	9	27		Snyder	Fisher Business College	OSU Campus	Program Overview	16				
2002	9	30		Williams	National Issue Forum	Cleveland	Stakeholder mtg.	8				
2002	9	30		Snyder	Lake Erie Briffer Team	Findlay	End-of-Grant Evaluation	13				
2002	9	31		Williams	Interior Automotive Site Visit***	Medina/Lorain/summit	Business Attraction	5				
2002	10	1	2	Hageman	Mary Bridgeman / Columbus Dispatch	Gibraltar Island	Aquatic Science Workshop					XX
2002	10	1	2	Hageman	Worthingway M.S. / Worthington	Gibraltar Island	Aquatic Science Workshop	66				
2002	10	1		kelch	Lorain City Extension Adv Comm mtg	elyria	sea grant overview, programs	29				
2002	10	2	4	Hageman	Columbus School for Girls	Gibraltar Island	Aquatic Science Workshop	64				
2002	10	2		Snyder	LECBA & Ohio Div. Wildlife	Port Clinton	Artificial Reef Development	6				
2002	10	2		kelch	odm/dow & osp meeting	port clinton	western basin art reef mtg	8				
2002	10	2		Williams	lakefront Planning issue forum	Cleveland	Sea Grant	36				
2002	10	3	4	Lichtkoppler	Tourism Professionals	Kirtland	Lake Erie Coastal Ohio	75			x	
2002	10	3		Hageman	Coastal Ohio	Huron	Lake Erie Eco Tourism				55	

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2002	10	3		Williams	Cuyahoga RAP social Committee	Peninsula	Sea Grant	12				
2002	10	4		Hageman	Franklin Elementary / Elvira	Gibraltar Island	Aquatic Science Workshop			37		
2002	10	4		Hageman	Deb Bogard/Dempsey M.S. / Delaware	Gibraltar Island	Facilities Tour	2				
2002	10	4		Hageman	Paul & Joan Stromberg/Karen Jennings	Gibraltar Island	Buckeye Island Hop Prep.			3		
2002	10	4		Williams	Agent's retreat	Cleveland	Osu Staff	6				
2002	10	5	6	Hageman	O.S.U. Alumni	Gibraltar Island	Buckeye Island Hop Retreat			41		
2002	10	5		Hageman	Owens Community College / Toledo	Gibraltar Island	Aquatic Science Workshop			25		
2002	10	7		Hageman	Bay H.S. / Bay Village	Gibraltar Island	Aquatic Science Workshop			25		
2002	10	8	9	Hageman	Rocky River M.S.	Gibraltar Island	Aquatic Science Workshop			46		
2002	10	8		Snyder	Dept. Extension Prom. & Tenure Com.	Columbus	Promotion & Tenure	12		x		
2002	10	8		Lichtkoppler	Dept. Extension Prom. & Tenure Com.	Columbus	Promotion & Tenure	12				
2002	10	8		Hageman	Put-in-Bay School	Gibraltar Island	Aquatic Science Workshop			22		
2002	10	8		kelch	osu extension sub comm mtg	columbus	faculty issues/concerns	5				
2002	10	8		Williams	Dike 14	Cleveland	Sea Grant	33				
2002	10	9	10	Hageman	Clintonville Academy	Gibraltar Island	Aquatic Science Workshop			34		
2002	10	9		Snyder	WDET Radio	Detroit, MI	Walleye & Perch Hatch Interview					XX
2002	10	9		Williams	ACIPS dinner	Independence	Business Retention	59				
2002	10	10	11	Hageman	Robinson Jr. High / Toledo	Gibraltar Island	Aquatic Science Workshop			33		
2002	10	10		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14				
2002	10	10		Hageman	Ravenna H.S.	Gibraltar Island	Aquatic Science Workshop			9		
2002	10	10		Lucente	NW Ohio Regional Econ. Dev. Association	Toledo	NORED Mtg.	45			x	
2002	10	10		Williams	First community certification	Brecksville	Business attraction/retention	15				
2002	10	11	12	Hageman	Granville M.S.	Gibraltar Island	Business attraction/retention			31		
2002	10	11	13	Hageman	O.S.U. Plankton Class	Gibraltar Island	Field Trip			12		
2002	10	11		Snyder	Sea Grant Staff	Port Clinton	Fisheries Extension Conf. Call	5				
2002	10	11		Hageman	Ohio Sea Grant Extension	Columbus	Conference Call					7
2002	10	11		kelch	OSU ag faculty council mtg	columbus	faculty issues/concerns	26				
2002	10	12		Hageman	Lin Wu / Mt. Union College	Peach Pt. Resch Lab	Zebra Mussel Specimens	1				
2002	10	14	16	Hageman	Hudson M.S. I	Gibraltar Island	Aquatic Science Workshop			42		
2002	10	14		Lucente	Great Lakes Commission	Gibraltar Island	Conference				14	
2002	10	14		Williams	Greg Davis, NW District Specialist	Bowling Green	Summer Visit	2	x			
2002	10	14		Snyder	CB Richard Ellis	Cleveland	Business Attraction	4				
2002	10	15		Lichtkoppler	Great Lakes Commission	Cleveland	Annual Commission Meeting			90		
2002	10	15		Lichtkoppler	Central Basin Steelheaders	Cleveland	Ohio Sea Grant			90		
2002	10	15		kelch	Directors Internal A/C mtg-K. Smith	Kirtland	Steelhead Survey	45				
2002	10	15		Lichtkoppler	Citizens	Cleveland	update director/faculty concerns	15				
2002	10	16	17	Hageman	Hudson M.S. II	Cleveland	SOLEC				400	
2002	10	16	18	Snyder	Outreach & Engagement Assembly	Gibraltar Island	Aquatic Science Workshop			38		
2002	10	16		Lucente	Great Grants, Great Funding Workshop	Columbus	Outreach Issues	35				
2002	10	16		Williams	CD Agent's mtg	Toledo	Networking in Government Grants	86	x			
2002	10	17		Snyder	U.S. Rep. Marcy Kaptur	Columbus	economic development	33				
2002	10	17		Snyder	Port Clinton Residents	Port Clinton	Water Issues	12				
2002	10	17		Lichtkoppler	Boaters	Port Clinton	Municipal Marina Presentation	23				
2002	10	17		Williams	Dike 14 public mtg	Grand River	GR Partnership	25				
2002	10	17		Hageman	Andrews School for Girls / Willoughby	Cleveland	Sea Grant	36				
2002	10	18	19	Hageman	O.S.U. Ottawa Co. Extension	Gibraltar Island	Aquatic Science Workshop			30		
2002	10	18		kelch	Steelhead Sur. clerk phone interviews	Gibraltar Island	Facilities Tour	9				
2002	10	19		Snyder	Michigan Charter Boat Ass'n	elvira	interview for clerk position	5				
2002	10	20		Hageman	Dr. Susan Fisher	Dundee, MI	Lake Erie Smallmouth	58				
2002	10	21	22	Hageman	Hilliard Tharp M.S. I	Columbus	Zebra Mussel Collection	1				
2002	10	21		Snyder	District Office Staff	Gibraltar Island	Aquatic Science Workshop			32		
2002	10	21		Hageman	Ohio Chapter American Fisheries Soc.	Findlay	District Office Conference	12				
2002	10	22	23	Hageman	Hilliard Tharp M.S. II	Reynoldsburg	Exec. Committee Mtg.				12	
2002	10	22		Snyder	Port Clinton Mayor's Core Group	Gibraltar Island	Aquatic Science Workshop			32		
2002	10	23	24	Hageman	Evangel Christian Acad. / Gahanna	Port Clinton	Transient Marina Development	19		x		
2002	10	23		Lichtkoppler	Citizens	Ashtabula	Aquatic Science Workshop			28		
2002	10	23				Ashtabula	Ashtabula River Partnership	16				

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2002	10	23		Lucente	NW District Office	Findlay	NW CD Program Planning Retreat	15				
2002	10	23		kelch	Iorain city visitors bureau board mtg.	Iorain	tourism, lake issues	20				
2002	10	24	25	Hageman	Highland H.S. / Medina	Gibraltar Island	Aquatic Science Workshop	35				
2002	10	24	25	Hageman	Dempsey M.S. / Delaware	Gibraltar Island	Aquatic Science Workshop			25		
2002	10	24		Snyder	District Extension Employees	Findlay	Volunteer Inservice				85	
2002	10	24		Snyder	Portage River Basin Council	Bowling Green	Quarterly Meeting	32				
2002	10	24		Lucente	CBS Corridors Coalition	Toledo	CBS Corridors Coalition Mtg.	21				
2002	10	24		kelch	WCOL radio Columbus phone interview	columbus	Lake Erie Dead Zone			50		XX
2002	10	25	26	Hageman	Jackson M.S. / Grove City	Gibraltar Island	Aquatic Science Workshop					
2002	10	25		Snyder	Sea Grant, ODNR, LEMTA	Port Clinton	Clean Marinas Conference call	6				
2002	10	25		Lucente	Jim Weidenheft, OSU Extension, Ottawa	Oak Harbor	Ottawa County BRE Project Analy	2	X			XX
2002	10	25		kelch	WEOH radio-elvira	elvira	Lake Erie Dead Zone					
2002	10	25		Snyder	Coastal Training Focus Group	Ashland	Coastal Issues	12				
2002	10	28		Lichtkoppler	OSU Extension	Ashland	Focus Group	12				
2002	10	28		Hageman	Great Lakes Envir. Finance Ctr.	Ashland	Lake Erie Tourism				12	
2002	10	28		Lucente	Great Lakes Environmental Finance Ctr.	Ashland	Focus Group Mtg.	12				
2002	10	28		kelch	osu-ext pond mgt seminar plan mtg	wooster	2003 pond seminar planning	8				
2002	10	29		kelch	Steelhead clerk training	elvira/cleveland	train, visit sites, techniques	1		X		
2002	10	30		Lichtkoppler	Citizens	Painesville	Coastal Management				12	
2002	10	30		Lucente	Jim Weidenheft, OSU Extension, Ottawa	Toledo	Ottawa County BRE Project Analy	2				
2002	10	30		kelch	Steelhead clerk training	elvira/cleveland	train, visit sites, techniques	1		X		
2002	10	31		kelch	Steelhead clerk training	elvira/cleveland	train, visit sites, techniques	1		X		
2002	11	4		Lucente	Lucas County Staff	Toledo	Office Conference	14		X		
2002	11	4		kelch	Power Point In-Service Training	wooster	power point training, education					
2002	11	5		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Meeting	21			X	
2002	11	5		Lichtkoppler	Citizens	Unionville	Sea Grant Advisory Committee		6			
2002	11	5		kelch	osu-ext pond mgt seminar plan mtg	elvira conf call mtg	2003 pond seminar planning	10				
2002	11	6		Snyder	Sea Grant, USFWS	Port Clinton	HACCP Training Conf. Call	7		X		
2002	11	6		Williams	NW District	Findlay	Community Dev. & Natural Resou	12	X			
2002	11	6		Williams	M/E Engineering, P.C**	Cleveland	Business Attraction	4				
2002	11	7		Lucente	OSU County Extension Agents	Columbus	Conflict Manag. & Dispute Resolu	17				
2002	11	8		Lucente	OSU County Extension Agents	Columbus	Conflict Manag. & Dispute Resolu	17				
2002	11	8		Williams	Imaging Sciences**	Cleveland	Business Development	5				
2002	11	9		Snyder	Lake Erie Charter Boat Association	Venice	Annual Meeting	79				
2002	11	12		Snyder	STRS	Bowling Green	STRS Counseling	2				
2002	11	12		kelch	LENSC Steelhead Seminar	bay village	steelhead angling seminar	125	X			
2002	11	13		Snyder	GLSGN ANS Team	Port Clinton	ANS Aquaria Conf. Call	8				
2002	11	13		kelch	lvb policy comm mtg	Iorain	visitor bureau issues	8	X			
2002	11	14		Lichtkoppler	Sea Grant Agents	Painesville	ANS PET Grant Conf Call	5				
2002	11	14		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	13				
2002	11	14		Lucente	NW Ohio Regional Econ. Dev. Associa	Toledo	NORED Mtg.	46				
2002	11	14		kelch	west cleveland walleye association	cleveland	fish contaminants	49				
2002	11	15		Snyder	Extension Administration	Findlay	Director's Message	80				
2002	11	15		Lichtkoppler	Executive Committee	Elvira	Lake Erie Coastal Ohio	5				
2002	11	15		Lucente	NW District Office	Findlay	NW District Fireside Chat and Car	65				
2002	11	16		Hageman	Bay Area Divers	Sandusky	Shipwrecks & SCUBA Banquet				100	
2002	11	17		Hageman	Pheasants-Forever State Exec. Bd.	Marion	State Chapter Mtg.				10	
2002	11	18		Lichtkoppler	Sea Grant Agents	Painesville	ANS PET Grant Conf Call	6				
2002	11	18		Williams	Mtg. With Tom Blaine	Wooster	Business Retention	2				
2002	11	18		Williams	PET	Cleveland	Pre employment training	23				
2002	11	19		Snyder	GLSGN Program Leaders Conf. Call	Port Clinton	Fisheries Extension Conf. Call	9				
2002	11	19		Lichtkoppler	Sea Grant Program Leaders	Painesville	ANS grants	9				
2002	11	19		Hageman	ODNR Watercraft	Cincinnati	View Workbooks				3	
2002	11	19		kelch	fin-feather-fur outfitters sports store	ashland	mini steelhead lecture/seminar	53		X		
2002	11	19		Williams	Call Center	Beachwood	Business Development	3				
2002	11	19		Williams	OSU's Bio tech forum	Cleveland	Program development	4				
2002	11	20		Hageman	Stone Lab Departments	Columbus	Fall Summary Meeting				17	

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2002	11	20		Lucente	Ann Moore, Toledo Area Chamber of C	Toledo	Leadership Academy 2003 Plann	2	x			
2002	11	20		Williams	Engineered Welded Blanks**	Lorain	Business Development	5		x		
2002	11	20		Williams	PET		Pre employment training	23				
2002	11	21		Snyder	Ohio Sea Grant Staff	Cleveland	ANS Conference call	6				
2002	11	21		Lichtkoppler	Sea Grant Agents	Port Clinton	ANS Mass Audience Conf Call	7				
2002	11	21		Lucente	Toledo Area Officials	Painesville	Toledo Technology Summit	70				
2002	11	21		Williams	State of Minority Health	Toledo	education					
2002	11	21		Lichtkoppler	Sea Grant Agents	Columbus	ANS PET Grant Conf Call	6				
2002	11	22		Williams	Polaris career center	Painesville	Pre for Sea Grant Program	2				
2002	11	22		Williams	PET	Berea	Pre employment training	23				
2002	11	25		Snyder	Department of Extension P&T Comm.	Port Clinton	P&T Conference Call	8	x			
2002	11	26		Lichtkoppler	Extension Faculty	Painesville	Promotion & Tenure Conf Call	8				
2002	11	26		Lucente	CBS Corridors Coalition	Toledo	CBD Corridors Coalition Mtg.	16				
2002	11	26		Williams	Economic Development Network Mtg	Cleveland	Zoning forum	43				
2002	11	27		kelch	lorain city visitors bureau board mtg	Lorain	tourism, lake issues	18				
2002	11	27		Williams	CVBG	Cleveland	Business attraction	5				
2002	12	2		Williams	PET	Cleveland	Pre employment training	23				
2002	12	3		Lucente	Ohio State University Extension Employ	Columbus	Recognition Conference	300				
2002	12	4		Williams	PET	Cleveland	Pre employment training	23				
2002	12	5		Snyder	Sea Grant, USFWS	Port Clinton	HACCP Training Conf. Call	8				
2002	12	5		Lucente	Lucas County Extension Advisory Cabine	Toledo	County Advisory Cabinet Meeting	16	x			
2002	12	6		Lucente	Jim Weidenheft, OSU Extension, Ottaw	Oak Harbor	Ottawa County BRE Project	2				
2002	12	9		Lucente	Dawn Malone, OSU BRE	Toledo	Conference Call/Ottawa County B	2	x			
2002	12	10		kelch	cleveland woods and water club	cleveland	dead zone presentation	63				
2002	12	10		Williams	Socio-economic work group	Cleveland	Cuyahoga Rap	8				
2002	12	11		Williams	PET	Cleveland	Pre employment training	23				
2002	12	12		Snyder	Lake Erie Buffer Team	Findlay	Annual Summary	16				
2002	12	12		Lucente	Lucas County Staff	Toledo	Office Conference	15	x			
2002	12	12		Lucente	Ottawa County BRE Task Force	Oak Harbor	Ottawa County BRE TaskForce M	18	x			
2002	12	12		Williams	National TBZ	Cleveland	Business Attraction	8				
2002	12	13		Lichtkoppler	Extension Faculty	Wooster	Update				89	
2002	12	13		Hageman	Lake Craf Corporation	Port Clinton	Order New Rowboats			3		
2002	12	13		Lucente	Planning and Evaluation Committee	Toledo	Conference Call for Planning & Ev	6				
2002	12	13		kelch	osu-extension directors fireside chat	wooster	extension faculty mtg/update				x	
2002	12	13		Williams	Fireside Chat	wooster	Extension Business				x	
2002	12	16		Snyder	Ohio Sea Grant Staff	Port Clinton	Fisheries Extension Conf. Call	8				
2002	12	16		Lichtkoppler	Ohio Sea Grant Staff	Painesville	Fisheries Extension Conf. Call	8				
2002	12	16		Hageman	Pheasants-Forever, Chapter 291	Oak Harbor	Monthly Bd. Mtg. / Bang. Planning				4	
2002	12	16		Lucente	Ohio Sea Grant Staff	Toledo	Conference Call for Fisheries Ext	8				
2002	12	16		kelch	osg agents/director conference call	elyria	sea grant issues planning				x	
2002	12	17		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Meeting	21				
2002	12	17		Snyder	GLSGN Fisheries Team	Port Clinton	Fisheries Extension Conf. Call	8				
2002	12	17		Lichtkoppler	Citizens	Mentor	MARCSAMP	9				
2002	12	17		kelch	submerged lands adv comm mtg	Lorain	concerns, issues, direction	20				
2002	12	18		Lichtkoppler	Citizens	Ashabula	Ashabula River Partnership	14				
2002	12	18		Lucente	Great Lakes Sea Grant Network	Toledo	Conference Call for GLSG Networ	10				
2002	12	19		Snyder	Ninth Grade Students	Fremont	Career Counseling	68				
2002	12	19		Lucente	CBS Corridors Coalition	Toledo	CBS Corridors Coalition Mtg.	18				
2002	12	20		Snyder	Northwest District Office Staff	Findlay	District Office Conference	20				
2002	12	20		Lichtkoppler	Executive Committee	Elyria	Lake Erie Coastal Ohio	6				
2002	12	20		Lucente	Northwest District Office Staff	Findlay	District Office Conference	20				
TOTALS								18340	16	5377	2208	37 Events

Extension Agent Activities 2003

Ohio Sea Grant Extension
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YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/NO.	CHAIR/NO.	ORGANIZE/NO.	PARTICIP/NO.	MASS MEDIA
2003	1	3		Lucente	Andy Lewis, Wisconsin Extension	Toledo	Conference Call- Leadership	2				
2003	1	3		Snyder	Extension District Office Staff	Findlay	Staffing Update	11		x		
2003	1	7		Kelch	OSU Ext. Cost Recovery Com. Mtg.	Columbus	departmental cost recovery				x	
2003	1	7		Kelch	OSU Ext. City, Advisory Com. Mtg.	Elyria	Sea Grant Updates	27				
2003	1	7		Lichtkoppler	Sea Grant Extension Staff	Painesville	Conf Call re: Fish Extension	3				
2003	1	7		Snyder	Sea Grant Extension Staff	Port Clinton	Conf Call re: Fish Extension	5		x		
2003	1	7		Williams	Smart Growth	Columbus	Smart Growth Team	5				
2003	1	7		Kelch	Sea Grant N. Central Advisory Com.	Elyria	Sea Grant Updates	18				
2003	1	8		Lichtkoppler	Sea Grant Staff	Painesville	conf Call re: Fish Extension PETS	7				XX
2003	1	8		Lichtkoppler	National Public Radio	Painesville	Lake Erie & Botulism					
2003	1	8		Snyder	Great Lakes Sea Grant Network	Port Clinton	Fish Extension Conference Call	7		x		
2003	1	8		Williams	Downtown Cleveland Partnership	Cleveland	Downtown office survey	26				
2003	1	8		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14				
2003	1	9		Lichtkoppler	North Coast Charter Captains	Grand River	Lake Erie Fisheries	45			42	
2003	1	9		Lucente	NW Ohio Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.				26	
2003	1	13		Lucente	Ohio Extension Agents Association	Columbus	Board Mtg.					
2003	1	13		Snyder	Public Officials, citizens	Toledo	Leadership Academy	16	x			
2003	1	13		Williams	Ohio ANS Task Force	Columbus	2002 Update, 2003 Initiatives	15		x		
2003	1	13		Hageman	OEA	Columbus						9
2003	1	14		Lichtkoppler	Ohio Sea Grant Extension	Columbus	Staff Meeting					
2003	1	14		Lichtkoppler	USGE Staff	Columbus	Annual Banquet Planning	13				
2003	1	14		Snyder	Sea Grant Staff	Columbus	Massachusetts Program Planning	6		x		
2003	1	14		Williams	Sea Grant Extension Staff	Columbus	Downtown office survey	5				
2003	1	14		Hageman	Phasants Forever Board	Oak Harbor	Radio Interview Re: Ice Fishing Opportunities					XX
2003	1	16		Hageman	Downtown Cleveland Partnership	Cleveland	Winter on Put-in-Bay/Stone Lab					XX
2003	1	16		Lichtkoppler	Ohio Sportsman Radio Audience	Columbus	Shamrock Development Public He	45				
2003	1	16		Snyder	WOSU Radio Audience	Painesville	Staff Meeting	12				
2003	1	16		Williams	OEA, Citizens	Findlay						
2003	1	16		Kelch	Extension District Office Staff	Cleveland	Sea Grant exhibit, education					XX
2003	1	17	26	Kelch	City Club	Cleveland	Lake Erie Dead Zone & angling	100				
2003	1	17		Lichtkoppler	Mid-America Boat Show	Cleveland	conf call re: PETS ANS Grant	7				
2003	1	17		Snyder	Great Lakes Sea Grant Staff	Painesville	Introduced Wildlife					XX
2003	1	17		Snyder	Fremont News-Messenger Interview	Fremont	Staff Development Committee	4				
2003	1	17		Kelch	Lake Erie Coastal Ohio	Sandusky	Fish Extension Conference Call	8		x		
2003	1	17		Lichtkoppler	GLSGN Program Leaders	Port Clinton	Lake Erie Dead Zone & angling	90				
2003	1	18		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	75				XX
2003	1	18		Lichtkoppler	Presentation-Mid America Boat Show	Cleveland	Sea Grant Information Booth					
2003	1	18		Kelch	Cleveland Boat Show Patrons	Cleveland	Lake Erie Dead Zone & angling	85				XX
2003	1	19		Snyder	Presentation-Mid America Boat Show	Cleveland	Sea Grant Information Booth					
2003	1	19		Kelch	Cleveland Boat Show Patrons	Cleveland	Lake Erie Dead Zone & angling	110				
2003	1	20		Lucente	Presentation-Mid America Boat Show	Cleveland	Leadership Academy	16	x			
2003	1	20		Hageman	Public Officials, citizens	Toledo	Ice Fishing Feature, Travel Ideas					XX
2003	1	21		Kelch	Subscribers to Ohio News Network	Put-in-Bay	Lake Erie Dead Zone & angling	60				
2003	1	21		Lucente	Presentation-Mid America Boat Show	Cleveland	Conference Call- Leadership	2		x		XX
2003	1	21		Snyder	Don Lacy, OSU Extension	Toledo	Sea Grant Information Booth					
2003	1	21		Williams	Cleveland Boat Show Patrons	Cleveland	Business Development	6				
2003	1	21		Lichtkoppler	Lloyd Daniels Development Group	East Cleveland	Business Development	6				
2003	1	21		Williams	Unity MFG Group	Cleveland	Tourism Issues and Planning				x	
2003	1	21		Kelch	Lorain City, Visitors Bureau Bd. Mtg.	Lorain	Lake Erie Dead Zone & angling	45				
2003	1	22		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	80				
2003	1	22		Kelch	Presentation-Mid America Boat Show	Cleveland	Web Page Development	2		x		
2003	1	22		Lucente	Christina McManus, OSU Extension	Toledo	Lake Erie Dead Zone & angling	2				
2003	1	23		Kelch	Presentation-Mid America Boat Show	Cleveland	Sea Grant Information Booth	40				XX
2003	1	23	26	Lichtkoppler	Cleveland Boat Show Patrons	Cleveland						

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2003	1	23		Lucente	Public Officials, citizens	Toledo	Stormwater Mgmt. Conference	15	x	x		
2003	1	23		Williams	Storm Water Program	Lake County offices	Sea Grant	10				
2003	1	23		Williams	PET Testing	Cleveland	Pre employment training	25				
2003	1	24		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	50				
2003	1	24		Williams	PET Testing	Cleveland	Pre employment training	25				
2003	1	25		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	70				
2003	1	25		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	45				XX
2003	1	25		Lucente	Cleveland Boat Show Patrons	Cleveland	Sea Grant Information Booth					
2003	1	26		Kelch	Presentation-Mid America Boat Show	Cleveland	Lake Erie Dead Zone & angling	50				
2003	1	27		Lucente	Public Officials, citizens	Toledo	Leadership Academy	16	x	x		XX
2003	1	27		Snyder	Sandusky Register Interview	Sandusky	Lake Levels			x		XX
2003	1	28		Snyder	Mayor's Core Group	Port Clinton	Transient Marina Development	17		x		XX
2003	1	29		Snyder	WCPN Radio Interview	Cleveland	Lake Levels					
2003	1	29		Snyder	John Rohrer Retirement	Columbus	OSU Extension				150	
2003	1	30		Lichtkoppler	OSU Extension Staff	Painesville	Dana Evaluation	4				
2003	1	30		Williams	Cuyahoga Rap	Brecksville	Sea Grant					
2003	1	31		Lichtkoppler	OSU Extension Staff	Painesville	Wait Evaluation	4				
2003	1	31		Williams	Offset Printing	Brecksville	Business Development	2				
2003	2	3		Lucente	Lucas County Staff	Toledo	Office Conference	12				
2003	2	3		Lucente	Public Officials, citizens	Toledo	Leadership Academy	16	x	x		
2003	2	3		Snyder	Sea Grant Extension Staff	Port Clinton	Fish Extension Conference Call	5				
2003	2	3		Snyder	Bassmasters Magazine Interview	Port Clinton	Gobies in Lake Erie					
2003	2	4		Kelch	Lorain Cty. Visitors Bureau sub-com.	Lorain	Bureau policy and tourism issues	8				
2003	2	4		Kelch	Sea Grant Extension Staff	Elyria	Conf Call Winter Lecture				x	
2003	2	4		Lucente	Ottawa County	Oak Harbor	Business Retention & Expan.	2		x		
2003	2	4		Snyder	ANS HACCP Committee	Port Clinton	Massachusetts Program Planning	7				
2003	2	4		Snyder	Sea Grant Extension Staff	Port Clinton	Winter Lecture Conference Call	4				
2003	2	4		Williams	North Coast Growth alliance Team mtg	Cleveland	economic development	10				XX
2003	2	5		Kelch	WCPN Public Radio Interview	Cleveland	Lake Erie Dead Zone Concerns				x	
2003	2	6		Kelch	Sea Grant Extension Staff	Elyria	Fish Extension Conference Call					
2003	2	6		Lichtkoppler	Sea Grant Staff	Painesville	Conf Call re: Fish Ext Grant	4				
2003	2	6		Lucente	Jerry Thomas, OSU Extension	Toledo	PPST Visit	2		x		
2003	2	6		Snyder	Sea Grant Extension Staff	Port Clinton	Fish Extension Conference Call	4				
2003	2	6		Williams	ACE Construction****	Cleveland	Business Development	2				
2003	2	7		Kelch	Sea Grant Extension Staff	Elyria	Fish Extension Conference Call	4			x	
2003	2	7		Lichtkoppler	Sea Grant Extension Staff	Painesville	Fish Extension Conference Call	4				
2003	2	7		Lucente	Slate Senators, Reps, Extension	Toledo	Legislative Visit/Tour Lucas Co.	12				
2003	2	7		Snyder	Sea Grant Extension Staff	Port Clinton	Fish Extension Conference Call	4				
2003	2	7		Williams	Interslate Diesel Service**	Cleveland	Business Development	2				
2003	2	7		Kelch	Sea Grant Extension Staff	Elyria	Fish Extension Conference Call				x	
2003	2	10		Lichtkoppler	Sea Grant Staff	Painesville	Conf Call re: Grants ANS ? Fish e	4				
2003	2	10		Lucente	Greg Davis, OSU Extension	Toledo	PPST Visit	2		x		
2003	2	10		Lucente	GL Sea Grant Network	Toledo	Conference Call- GLSGN Conf.	10				
2003	2	10		Lucente	Public Officials, citizens	Toledo	Leadership Academy	16	x	x		
2003	2	10		Snyder	Sea Grant Extension Staff	Port Clinton	Fish Extension Conference Call	4				
2003	2	10		Williams	PET Goals	Cleveland	Pre employment training	20				
2003	2	11		Lucente	Jim Wiedenheft, OSU Extension	Toledo	Conference Call- BRE Mtg.	2		x		
2003	2	11		Williams	Cuyahoga Rap	Peninsula	Sea Grant	12				
2003	2	12		Hageman	Dana Oleskiewicz	Sandusky	OSU Extension Watershed Conference			3		
2003	2	12		Snyder	Ohio ANS Sreening Committee	Columbus	2003 Initiatives	7				
2003	2	12		Williams	Pat Company Visit	Cleveland	Pre employment training	20				
2003	2	13		Kelch	Westlake Sportsmans Club	Westlake	Lake Erie Dead Zone Presentation	65				
2003	2	13		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	15				
2003	2	13		Lucente	NW Ohio Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.				42	
2003	2	13		Lucente	Hans Rosebrook, First Energy	Toledo	Last Patrol Museum Project	4				
2003	2	14		Kelch	Sea Grant Extension Staff	Elyria	Fish Extension Conference Call				x	
2003	2	14	16	Lichtkoppler	Anglers	Eastlane	Eastlake Fishing Symposium					XX

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2003	2	14		Snyder	Great Lakes Sea Grant Network	Port Clinton	Fishery Leadership Institute Call	6				
2003	2	14		Snyder	Sea Grant Extension Staff	Port Clinton	Fish Extension Conference Call	4				
2003	2	14		Williams	Limet Inc.	Cleveland	Business Development	2				
2003	2	17		Lucente	Public Officials, citizens	Toledo	Leadership Academy	16	x	x		
2003	2	17		Williams	Pet-Budget	Cleveland	Pre employment training	20				
2003	2	18		Kelch	Governors SLAC Mtg.	Cleveland	shipwreck, UMW preserve issues	19				
2003	2	18		Williams	Marc-IT	Cleveland	Business Development	5				
2003	2	19		Kelch	OSUE Directors Internal A/C mtg.	Columbus	Extension Dept. Issues/concerns	4			x	
2003	2	19		Lichtkoppler	OSU Extension Staff	Painesville	Dave Evaluation	4				
2003	2	19		Williams	Ext. Solicitation Tr	Cleveland	Business Development	12				
2003	2	20		Kelch	Fin-Feather-Fur Outfitters Store	Ashland	Steelhead Education Seminar	142				
2003	2	20		Lichtkoppler	ARP Ashtabula River Partnership	Ashtabula	ARP Cleanup	18				
2003	2	20		Snyder	Extension District Office Staff	Findlay	Staff Meeting	14				
2003	2	20		Williams	Spencer Forge	Medina	Business Development	4				
2003	2	21		Kelch	Sea Grant Extension Staff	Ashland	Sea Grant Staff Mtg.	8			x	
2003	2	21		Lichtkoppler	Sea Grant Extension Staff	Ashland	Sea Grant Staff Mtg.	8				
2003	2	21		Lucente	Sea Grant Extension Staff	Ashland	Sea Grant Staff Mtg.	8				
2003	2	21		Snyder	Sea Grant Extension Staff	Ashland	Sea Grant Staff Mtg.	8				
2003	2	21		Williams	Sea Grant	Columbus	Sea Grant	10				
2003	2	21		Williams	Black Bass Anglers Assoc.	Cleveland	Sea Grant	21				
2003	2	21		Lucente	Public Officials, citizens	Toledo	Leadership Academy	16	x	x		
2003	2	24	26	Snyder	USFWS ANS-HACCP Training	Hadley, MA	ANS-HACCP Certification					XX
2003	2	24		Snyder	Columbus Dispatch interview	Columbus	Lake Erie Fishing Outlook					
2003	2	25		Kelch	Lorain Civ. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	16				
2003	2	26		Lucente	Ann Moore, Toledo Chamber Comm.	Toledo	Leadership Academy	2	x	x		
2003	2	27		Kelch	District Pond In-Service Conf Call	Elyria	pond in-service planning				x	
2003	2	27		Lucente	CBS Corridor Coalition	Toledo	Executive Mtg.				14	
2003	2	28		Lichtkoppler	LEGO Lake Erie Coastal Ohio	Old Woman Creek	Ex Board meeting	5				
2003	2	28		Lucente	NW District	Findlay	Program Impact Planning In-Serv	28	x	x		
2003	2	28		Williams	EDN Storm water program	Orange	economic development	48				
2003	3	2		Williams	National Mtg week	Chicago	Business Development	4				
2003	3	3		Kelch	Lake Erie Nature & Science Center	Bay Village	Steelhead Education Seminar	140				
2003	3	3		Lucente	Public Officials, citizens	Toledo	Leadership Academy	16	x	x		
2003	3	4		Hageman	Visions to Stone Lab Winter Lecture	Columbus	FOSL Stone Lab Winter Lecture					
2003	3	4		Kelch	Stone Lab Winter Lecture	Columbus	Lake Erie Steelhead Angling Ed.	100				
2003	3	4		Lucente	Maumee RAP PO&E Team	Toledo	Outreach & Ed. Mtg.	5			200	
2003	3	4		Snyder	Stone Lab Winter Lecture	Columbus	Lake Erie Fishing Techniques	100				
2003	3	5		Williams	PET	Cleveland	Pre employment training	10				
2003	3	6		Lucente	Ohio BRE Team	Columbus	BRE Analysis Workshop	8				
2003	3	6		Williams	Succession Planning	Cleveland	Business Development	26				
2003	3	7		Lucente	Gl. Sea Grant Network	Cleveland	Conference Call- GLSGN Conf.	10				
2003	3	8		Hageman	22nd Ohio Charter Captains Conf.	Toledo	Charter Business Management	162			375	
2003	3	8		Hageman	Members-Pheasants Forever Chap291	Sandusky	Annual Banquet					
2003	3	8		Kelch	22nd Ohio Charter Captains Conf.	Sandusky	Contaminants in Lake Erie Fish	162				
2003	3	8		Lucente	22nd Ohio Charter Captains Conf.	Sandusky	Charter Business Management	162	x			
2003	3	8		Snyder	22nd Ohio Charter Captains Conf.	Sandusky	Charter Business Management	162				
2003	3	8		Lucente	22nd Ohio Charter Captains Conf.	Sandusky	Charter Business Management	2	x	x		
2003	3	10		Lucente	Jim Wiedenheit, OSU Extension	Genoa	BRE Business Visits	2	x	x		
2003	3	10		Lucente	Public Officials, Citizens	Toledo	Leadership Academy	16	x	x		
2003	3	10		Williams	PET	Cleveland	Pre employment training	10				
2003	3	11		Kelch	Great Lakes Sea Grant Network	Cleveland	GLFLI conference call/planning				x	
2003	3	11		Lichtkoppler	GRP Grand River Partners	Elyria	GLFLI conference call/planning					
2003	3	11		Lichtkoppler	Sea Grant Staff	Jefferson	Partnership Quarterly Meeting	24				
2003	3	11		Lucente	Sea Grant Staff	Painesville	ANS GLFLI Grant	7				8
2003	3	11		Snyder	Great Lakes Sea Grant Network	Toledo	Conference Call- GLSG Fish.					
2003	3	11		Williams	Interstate Diesel Service	Port Clinton	Fishery Leadership Institute Call	8				
2003	3	11		Lucente	Cathy Miller, Toledo CVB	Cleveland	Business Development	4				
2003	3	12		Lichtkoppler	Mentor Marsh Board	Toledo	2003 West. LE Waterfront Guide	2	x	x		
2003	3	13		Lichtkoppler		Mentor	Marsh Management	13				

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2003	3	13		Lichtkoppler	Lake County Ext. Adv. Comm.	Painesville	OSU Extension Sea Grant Update	20				
2003	3	13		Williams	Extension fund development	Cleveland	Fund development	3				
2003	3	14		Hageman	Stone Lab Research Committee	Columbus	Stone Lab Research Endowment				6	
2003	3	14	23	Kelch	American Canadian Sport Show	Cleveland	Sea Grant exhibit, education					XX
2003	3	14		Snyder	OSU Extension - NW District	Findlay	Homeland Security Inservice				28	
2003	3	15		Kelch	American Canadian Sport Show	Cleveland	Lake Erie Dead Zone & angling	90				
2003	3	15	6, 20, 22 & 23	Lichtkoppler	Cleveland Sports Show Patrons	Cleveland	Sea Grant Information Booth					XX
2003	3	16		Snyder	Cleveland Sports Show Patrons	Cleveland	Sea Grant Information Booth					XX
2003	3	17	20	Hageman	Applicants for Stone Lab Employment	Columbus	Interviews for Spring/Summer '03			22		
2003	3	17		Kelch	American Canadian Sport Show	Cleveland	Lake Erie Dead Zone & angling	75				
2003	3	17		Lucente	Public Officials, Citizens	Toledo	Leadership Academy	16	x			
2003	3	17		Williams	OEA	Columbus	Extension					
2003	3	17		Williams	PET	Cleveland	Pre employment training	12				
2003	3	18		Kelch	American Canadian Sport Show	Cleveland	Lake Erie Dead Zone & angling	40				
2003	3	18		Lichtkoppler	MARC Mentor Area Regional Coalition	Mentor	Watershed Protection	9				XX
2003	3	18		Lucente	Cleveland Sports Show Patrons	Cleveland	Sea Grant Information Booth					
2003	3	18		Snyder	Mayor's Core Group	Port Clinton	Transient Marina Development	19		x		
2003	3	19		Snyder	Cleveland Sports Show Patrons	Cleveland	Sea Grant Information Booth					XX
2003	3	19		Williams	Highland Equipment	Cleveland	Business Development	3				
2003	3	20		Lucente	Dawn Malone, OSU Extension	Toledo	Conference Call- Sea Grant Prop	2	x			
2003	3	20		Snyder	Extension District Office Staff	Findlay	Staff Meeting	11				
2003	3	20		Williams	CD Quarterly mtg.	Wooster	Extension	8				
2003	3	21		Hageman	FOSL Scholarship Committee	Columbus	2003 Stone Lab Scholarship Awards				7	
2003	3	21		Hageman	Ohio Chapter American Fish. Society	Reynoldsburg	Executive Committee Meeting				9	
2003	3	21		Lichtkoppler	LECO Lake Erie Coastal Ohio	Old Woman Creek	Full Board Meeting	9				XX
2003	3	21		Lucente	Cleveland Sports Show Patrons	Cleveland	Sea Grant Information Booth					
2003	3	21		Snyder	Lake Erie Coastal Ohio	Old Woman Creek	Full Board Meeting	9				XX
2003	3	22		Snyder	Cleveland Sports Show Patrons	Cleveland	Sea Grant Information Booth					XX
2003	3	23		Hageman	Cleveland Sports Show Audiences	Cleveland	Ohio Sea Grant Display- L. Erie Info					XX
2003	3	23		Lucente	Cleveland Sports Show Patrons	Cleveland	Sea Grant Information Booth					XX
2003	3	24		Hageman	Ohio Rep. Chris Redfern	Sandusky	Legislators Visit of Aug 14-15			4		
2003	3	24		Lucente	Public Officials, citizens	Toledo	Leadership Academy	16	x			
2003	3	25		Snyder	Ohio Envirothon	Ottawa Nat. Wild. Ref.	Planning Committee Meeting	21				
2003	3	26		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	14				
2003	3	26		Lichtkoppler	ARP Ashtabula River Partnership	Ashtabula	Project Coordination	14				XX
2003	3	26		Snyder	Maumee Mirror Interview	Maumee	2003 Walleye Outlook					XX
2003	3	27		Kelch	WECOL Radio Interview	Elyria	Lake Erie Dead Zone Issues					
2003	3	27		Lucente	OSU Exten. NW District	Findlay	Ottawa County BRE Project	5				
2003	3	28		Snyder	Rochester Inst. Tech. Video Interview	Port Clinton	Lake Erie Monster Documentary					XX
2003	3	29		Snyder	Western Basin Charter Boat Assoc.	Dundee, MI	2003 Lake Erie Update	22				
2003	3	31		Lucente	Don Lacy, OSU Extension	Lorain	Power Point Pres.-Leadership	2		x		
2003	4	1		Kelch	Central Basin Charterboat Assn. Mtg.	Lorain	Lake Erie Dead Zone & angling	27				
2003	4	1		Lichtkoppler	OSU Extension Faculty	Columbus	P&T		10			
2003	4	1		Snyder	Port Clinton News Herald Interview	Port Clinton	Mayfly Outlook					XX
2003	4	1		Hageman	Bill Schultz	Gibraltar Island	Project Learning Tree Pre-Tour	3				
2003	4	2		Kelch	South Cuyahoga Sportsmans Assn.	Cleveland	Pond & lake mgt. education	65				
2003	4	2		Lichtkoppler	Agency officials, citizens, SG Staff	Buffalo, NY	Botulism Workshop				70	
2003	4	2	3	Lucente	Wisconsin Comm. Leadership Conf.	Wisconsin Rapids, WI	Leadership Presentation	150		x		
2003	4	2	5	Snyder	Rotary Club Members	Bowling Green	Lake Erie Update	40				
2003	4	3		Snyder	Certified Crop Advisors	Oak Harbor	Lake Erie Buffer Program	14				
2003	4	4		Lucente	Lucas County Staff	Toledo	Staff Mtg.	12				
2003	4	7		Kelch	Sea Camp Planning Mtg.	Columbus	planning for 20th Sea Camp	18				
2003	4	8		Lucente	Ottawa County BR&E Project	Port Clinton	Business Visits	15		x		
2003	4	8		Hageman	Aquatic Science Instructors	Findlay, Ohio	Hooked on Fishing, Not on Drugs				25	
2003	4	9		Kelch	South Cuyahoga Sportsmans Trustees	Cleveland	pond & lake mgt. education	22				
2003	4	9		Lucente	D. Kravbill, D. Malone, OH BR&E	Toledo	Conference Call- S.G. Pre-Prop.	3		x		
2003	4	10		Hageman	Stone Lab Partners	Put-in-Bay, Ohio	Spring Planning Meeting				18	

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2003	4	10		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	13				
2003	4	10		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.				42	
2003	4	11		Kelch	OSU Ag Faculty Council Mtg.	Columbus	Faculty Issues, university senate	27				
2003	4	11		Lucente	Ottawa County BR&E Project	Oak Harbor	Business Visits	12		x		
2003	4	11		Hageman	College of Wooster	Gibraltar Island	Aquatic Science Workshop	46		18		
2003	4	14		Hageman	Lake High School, Uniontown	Gibraltar Island	Aquatic Science Workshop	46				
2003	4	14		Lucente	Greg Davis, OSU Extension	Findlay	SPSS Data Analysis-Leadership	2		x		
2003	4	14		Snyder	Portage Elementary Students	Port Clinton	Hooked on Fishing - Not Drugs	53				
2003	4	15	18	Hageman	Ryan Seckstaedler	Gibraltar Island	Shadow, Tiffin H.S.	1				
2003	4	15		Kelch	Lorain Cty. Bass Busters	Elyria	Lake Erie fishery update	35				
2003	4	15		Lichtkoppler	INE Ohio SG Committee	Unionville	Sea Grant Update	7				
2003	4	15		Lichtkoppler	Citizens	Cleveland	Lake Erie Update	6				
2003	4	15		Snyder	Mayor's Core Advisory Group	Port Clinton	Transient Marina Development	17				
2003	4	16		Hageman	Melanie Mark	Gibraltar Island	Shadow, Sandusky M.S.			1		
2003	4	16		Hageman	South Amherst M.S.	Gibraltar Island	Aquatic Science Workshop			34		
2003	4	17		Kelch	District Pond In-Service planning mtg.	Wooster	pond in-service planning	14				
2003	4	17		Lichtkoppler	Anglers	Fairport	Lake Erie update	44				
2003	4	17		Lucente	Ottawa County BR&E Project	Oak Harbor	Business Visits	10		x		
2003	4	17		Snyder	District Extension Staff	Findlay	Extension Update	12				
2003	4	22		Lucente	Allen County Chamber of Commerce	Lima	Leradership Academy Present.	5		x		
2003	4	23		Hageman	Lakota M.S., Amosden	Gibraltar Island	Aquatic Science Workshop			33		
2003	4	23	25	Hageman	Sewickley M.S., Pittsburgh, PA	Gibraltar Island	Aquatic Science Workshop	62				
2003	4	23		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	18				
2003	4	23		Kelch	ODNR Public Hearing KUP	Put-in-Bay, Ohio	Underwater Preserve Hearing				x	
2003	4	23		Hageman	State Rep. Chris Redfern	Put-in-Bay, Ohio	Legislative Visit Planning Meeting				9	
2003	4	24		Kelch	Fin-Feather-Fur Outfitters Store	Ashtand	L.Eire Fishery update/seminar	127				
2003	4	25		Hageman	Pheasants Forever State Council	Findlay, Ohio	Roadside Mowing				8	
2003	4	26	27	Hageman	Friends of Stone Lab	Gibraltar Island	Spring Work Weekend				24	
2003	4	26		Hageman	Village of Put-in-Bay	Put-in-Bay Town Hall	Dedication of Town Hall Photo's	90				
2003	4	26	30	Lichtkoppler	Sea Grant Staff	Galveston, TX	Sea Grant Week				120	
2003	4	26	29	Hageman	Mills School I, Sandusky	Gibraltar Island	Aquatic Science Workshop			47		
2003	4	29	30	Hageman	Mills School II, Sandusky	Gibraltar Island	Aquatic Science Workshop			43		
2003	4	29		Snyder	Fullon County Farm Pond Owners	Fayette	Pond Management Techniques	38				
2003	4	30		Kelch	North Coast Bass Anglers Club	Avon Lake	Lake Erie Fishery Update	25				
2003	4	30		Lucente	Ottawa County BR&E Project	Oak Harbor	Business Visits	14		x		
2003	4	30		Snyder	Ohio High School Students	Ottawa NWR	Ohio Envirothon	220				
2003	5	1	2	Hageman	Mills School IV, Sandusky	Gibraltar Island	Aquatic Science Workshop			48		
2003	5	1	10	Kelch	Promotion/Tenure Vita Review-chairma	Elyria	review/comment on vitas for PIT		x			
2003	5	2		Hageman	Kenwood Elementary, Bowling Green	Gibraltar Island	Aquatic Science Workshop			71		
2003	5	2	4	Hageman	O.S.U. Plankton Class	Gibraltar Island	Aquatic Science Workshop			28		
2003	5	2		Kelch	USCAE Public Hearing, dredging	Lorain	Lorain Port Authority, dredging				x	
2003	5	2		Snyder	Longnecker Trout Farm	Castalia	Aquaculture Development	3				
2003	5	3		Hageman	O.S.U. Geology Class	Gibraltar Island	Aquatic Science Workshop			15		
2003	5	5		Hageman	Meadowlawn School I, Perkins Twp	Gibraltar Island	Aquatic Science Workshop	55				
2003	5	5	6	Hageman	Mills School V, Sandusky	Gibraltar Island	Aquatic Science Workshop			44		
2003	5	5		Lucente	Lucas County Staff	Toledo	Staff Mtg.	12				
2003	5	5		Snyder	Jefferson Elementary Students	Port Clinton	Hooked on Fishing - Not Drugs	61				
2003	5	6		Hageman	Meadowlawn School II, Perkins Twp	Gibraltar Island	Aquatic Science Workshop			55		
2003	5	6	7	Hageman	Mills School VI, Sandusky	Gibraltar Island	Aquatic Science Workshop			47		
2003	5	6		Kelch	Kelleys Island 4-H Camp work day	Kelleys Island	Maintain/repair Sea Camp gear				x	
2003	5	6		Williams	Ed Barker, Comm. Wealth Ventures	Cleveland	Business Development	2				
2003	5	7		Hageman	Meadowlawn School III, Perkins Twp	Gibraltar Island	Aquatic Science Workshop			55		
2003	5	8		Hageman	Meadowlawn School IV, Perkins Twp	Gibraltar Island	Aquatic Science Workshop			55		
2003	5	8	9	Hageman	West Carrollton M.S.	Gibraltar Island	Aquatic Science Workshop			42		
2003	5	8		Kelch	West Cleveland Walleye Assoc. Mtg.	Cleveland	Lake Erie Update/Fisheries	35				
2003	5	8		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	12				
2003	5	8		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.				42	

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2003	5	9		Hageman	Mt. Gilead H.S. Nat'l Honor Society	Gibraltar Island	Facilities Tour			10		
2003	5	9		Hageman	Ohio Chapter American Fisheries Soc	Columbus	Wetlands Workshop II	29		x		
2003	5	9		Lucente	Ohio Chapter American Fisheries Soc	Columbus	Wetlands Workshop II				29	
2003	5	9		Snyder	Ohio Chapter American Fisheries Soc	Columbus	Wetlands Workshop II				29	
2003	5	10		Hageman	Muskingum College	Gibraltar Island	Facilities Tour			15		
2003	5	12	13	Hageman	Woodside M.S., Ft. Wayne, IN	Gibraltar Island	Aquatic Science Workshop			29		
2003	5	13		Hageman	St. Clement School, North Royalton	Gibraltar Island	Facilities Tour			66		
2003	5	13		Hageman	Eldernotel I	Gibraltar Island	Aquatic Science Workshop	25				
2003	5	13	14	Hageman	Worthington Christian H.S.	Gibraltar Island	Aquatic Science Workshop	14		19		
2003	5	13		Kelch	Lorain City Extension Office Conf.	Elyria	Lake Erie Dead Zone update			x		
2003	5	13		Lucente	Greg Davis, OSU Extension	Findlay	Proposal Development-Leader.	2				
2003	5	13		Williams	Web site development Jeff Beebe	Cleveland	Extension	3				
2003	5	13		Williams	Social-economic work group	Peninsula	Sea Grant	12				
2003	5	14		Hageman	Westside Montessori, Toledo	Gibraltar Island	Aquatic Science Workshop			50		
2003	5	14	17	Hageman	Bloom-Carroll H.S.	Gibraltar Island	Aquatic Science Workshop			52		
2003	5	14	15	Lichtkoppler	Students (4th, 5th & 6th grade)	Ashtabula	Aquatic Exotics ANS Waterway A	90				
2003	5	14		Williams	Agent's staff mtg	Cleveland	Extension	6				
2003	5	14		Williams	National TBZ	Cleveland	Business Development	12				
2003	5	15		Kelch	Lorain Cty. Visitors Bureau sub-comm	Lorain	Policy sub-committee mtg.	8				
2003	5	15		Williams	PIET	Cleveland	Pre employment training	10				
2003	5	16		Hageman	O.S.U., Lima, Reaching out to Youth	Gibraltar Island	Aquatic Science Workshop			27		
2003	5	16		Hageman	State Rep. Chris Redfern	Gibraltar Island	Legislative Visit Planning Meeting			17		
2003	5	16		Lucente	Ottawa County BR&E Project	Put-In-Bay	Business Visits	16		x		
2003	5	16		Snyder	Lutz Elementary Students	Fremont	Science Fair Judging	125				
2003	5	17	18	Hageman	O.S.U. Res. Hall	Gibraltar Island	Leadership Retreat			8		
2003	5	18		Kelch	Sportsmans Gun&Reel Club	Lorain	Lake Erie Update/angling	27				
2003	5	19		Hageman	All Saints Catholic School, Rossford	Gibraltar Island	Aquatic Science Workshop			32		
2003	5	19	20	Hageman	Perry/McCord M.S., Worthington	Gibraltar Island	Aquatic Science Workshop			78		
2003	5	19		Lucente	Ohio Extension Agents Assoc.	Columbus	OEAA Board Mtg.				24	
2003	5	19		Williams	OEAA	Columbus						
2003	5	20		Hageman	Eldernotel II	Gibraltar Island	Aquatic Science Workshop			25		
2003	5	20	21	Hageman	Toledo Public School Horizon Program	Gibraltar Island	Aquatic Science Workshop			50		
2003	5	20		Lucente	Ottawa County BR&E Project	Oak Harbor	Task Force Mtg.	10		x		
2003	5	21		Hageman	Oregon City Gifted & Talented	Gibraltar Island	Aquatic Science Workshop			22		
2003	5	21	22	Hageman	Laurel Elen., Shaker Hills	Gibraltar Island	Aquatic Science Workshop			50		
2003	5	22		Hageman	John Moses	Gibraltar Island	Facilities Tour	3				
2003	5	22		Hageman	Englewood Elementary	Gibraltar Island	Aquatic Science Workshop			22		
2003	5	22	23	Hageman	Erwine M.S., Akron	Gibraltar Island	Aquatic Science Workshop			44		
2003	5	22		Kelch	Lorain Port Authority	Lorain	Harbor and waterfront planning m	12			x	
2003	5	22		Lucente	CBS Corridors Coalition	Toledo	CBS Corridors Coalition Mtg.				14	
2003	5	22		Snyder	Great Lakes Fisheries Leadership Inst.	Port Clinton	Planning Conference Call	8				
2003	5	22		Williams	Issue forum	Cleveland	Blo Foods forum	5				
2003	5	22		Williams	Cuyahoga Rep	Peninsula	Sea Grant	15				
2003	5	23		Hageman	Barb Roth	Gibraltar Island	Facilities Tour	8				
2003	5	23		Williams	Inservise-Technology update	Wooster	OSU Extension					
2003	5	27		Hageman	Immaculate Conception, Bellevue	Gibraltar Island	Aquatic Science Workshop			72		8
2003	5	27		Hageman	OSU Sea Grant Staff	Port Clinton	Program Planning					
2003	5	27		Kelch	OSU Sea Grant Staff	Port Clinton	Program Planning	8				8
2003	5	27		Lucente	OSU Sea Grant Staff	Port Clinton	Program Planning					
2003	5	27		Lucente	Ottawa County BR&E Project	Oak Harbor	Communications Planning Mtg.	8		x		
2003	5	27		Snyder	OSU Sea Grant Staff	Port Clinton	Program Planning	8		x		
2003	5	27		Williams	Put-In-Bay Facility & Guests	Port Clinton	Program Planning	8				
2003	5	28		Hageman	Whiteford M.S., Ottawa Lake, MI	Gibraltar Island	Student Presentations				10	
2003	5	28		Hageman	Miamisburg City School	Gibraltar Island	Aquatic Science Workshop			66		
2003	5	28	29	Hageman	Lorain Cty. Visitors Bureau Bd. Mtg.	Gibraltar Island	Aquatic Science Workshop			46		
2003	5	28		Kelch	ARP Meetings (Project, Coordinating)	Lorain	Tourism Issues and Planning	22				
2003	5	28		Lichtkoppler		Ashtabula	Ashtabula River Cleanup	34				

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2003	5	28		Lucente	NW District Leadership Roundtable	Findlay	Leadership Roundtable Mtg.	25				
2003	5	28		Snyder	Toledo Blade Interview	Port Clinton	Largemouth Bass Populations					XX
2003	5	28		Snyder	Columbus Dispatch Interview	Port Clinton	Lake Erie History					XX
2003	5	28		Williams	EDN Strategic Mgt consult Video Conf	Westlake		40				
2003	5	29		Hageman	Springfield South H.S.	Gibraltar Island	Aquatic Science Workshop			6		
2003	5	29	30	Hageman	Jones M.S., Hilliard	Gibraltar Island	Aquatic Science Workshop			36		
2003	5	29		Kelch	Central Basin Charterboat Assn. Mtg.	Lorain	Proposed fishery regs, update	18				
2003	5	29		Lichtkoppler	Sea Grant & Agency Staff	Columbus	SG Preproposal Review Team	9				
2003	5	29		Snyder	Sea Grant & Agency Staff	Columbus	SG Preproposal Review Team	9				
2003	5	30		Hageman	Jones Jr High, Toledo	Gibraltar Island	Aquatic Science Workshop			33		
2003	5	30		Hageman	Lake High School, Millbury	Gibraltar Island	Aquatic Science Workshop			19		
2003	5	30		Hageman	Elyria Northwood	Gibraltar Island	Facilities Tour	54				
2003	5	30		Hageman	Jay Payne	Gibraltar Island	Facilities Tour	3				
2003	5	30		Hageman	Project Learning Tree Nat'l Conference	Gibraltar Island	Facilities Tour	99				
2003	5	30		Hageman	Central State University, Wilberforce	Gibraltar Island	Aquatic Science Workshop			10		
2003	5	30		Hageman	Grizzel M.S. Dublin	Gibraltar Island	Aquatic Science Workshop			82		
2003	6	2		Hageman	Put-In-Bay Chamber of Commerce	Put-In-Bay	Underwater Clean-up Mtg				8	
2003	6	3		Hageman	Terra Community College, Fremont	Gibraltar Island	Facilities Tour			48		
2003	6	3		Hageman	Eldershofel III	Gibraltar Island	Aquatic Science Workshop			19		
2003	6	3	5	Hageman	Buckeye Valley M.S., Delaware	Gibraltar Island	Aquatic Science Workshop			47		
2003	6	3		Lucente	Toledo Chamber of Commerce	Toledo	Leadership Academy Present.	15		x		
2003	6	3		Williams	Downtown partnership	conference	Cleveland	15				
2003	6	4		Hageman	O.S.U. Lorain Co. Extension Staff	Gibraltar Island	Aquatic Science Workshop	15				
2003	6	4		Kelch	Extension Office Retreat-Stone Lab	Put-In-Bay	Group leader, education	17				
2003	6	5		Kelch	Sea Camp Planning Mtg.	Elyria	cont call-camp planning	7				XX
2003	6	5		Kelch	WZMW radio interview-Dan Armitage	Columbus	Lake Erie Fishing					
2003	6	5		Lucente	Lucas County Advisory Cabinet	Toledo	Sea Grant Projects	16				
2003	6	5		Snyder	Clear Channel Radio Interview	Port Clinton	Pain Awareness in Fish		19			XX
2003	6	5		Williams	Made in America-entrepur seminar	Seminar	Cleveland					
2003	6	6		Hageman	Our Lady of Mt. Carmel, N. Royalton	Gibraltar Island	Facilities Tour			35		
2003	6	6		Hageman	Pearl Road Elem. Parma	Gibraltar Island	Aquatic Science Workshop			55		
2003	6	6		Hageman	Columbus Athletic Club	Catawba Island	Judge Waileye Tournament	90				
2003	6	6		Williams	CD outreach conference	Mtg	Cleveland	8				
2003	6	8		Hageman	EEOB 125	Gibraltar Island	Stone Lab Orientation	13				
2003	6	8	11	Lichtkoppler	Sea Grant Staff	Burlington, VT	GL SG Network Meeting	50			80	
2003	6	8	11	Lucente	GLSG Network Mtg.	Burlington, VT	Network Meeting					
2003	6	8	11	Snyder	Great Lakes Sea Grant Network	Burlington, VT	Network Conference	150				
2003	6	10		Williams	Business Excel McDonalds	Business Dev	Cleveland	18				
2003	6	11		Hageman	Kent State/Central State Universities	Gibraltar Island	Aquatic Science Workshop			7		
2003	6	11		Kelch	OSUE Northwest District	Columbus	Extension Dept. Issues/concerns	15				
2003	6	11		Williams	OSUE Directors Internal A/C mtg.	OSU Business	Cleveland	6				
2003	6	12		Hageman	Agt Mtg	Gibraltar Island	Facilities Tour			12		
2003	6	12		Hageman	Girl Scout Troop 1225, Columbus	Elyria	Lake Erie fishery update/angling					XX
2003	6	12		Lichtkoppler	WEOI Radio Interview	Mentor	Marsh Management	15				
2003	6	12		Lucente	Mentor Marsh Board	Toledo	NORED Mtg.			42		
2003	6	12		Williams	NW OH Regional Econ. Dev. Assoc.	Forum	Cleveland					
2003	6	12		Hageman	City Club	Gibraltar Island	Workshop Planning Mtg			5		
2003	6	13		Snyder	O.S.U. Watershed District Agents	Findlay	Applied Research Inservice			18		
2003	6	13		Hageman	OSUE Northwest District	Gibraltar Island	Stone Lab Orientation	35				
2003	6	15		Kelch	EEO 126, Geo 107, Nat 611	Lagrange	angling, fish prep, cleaning edu.	35				
2003	6	16		Hageman	Issac Walton League Handicap Day	Gibraltar Island	Facilities Tour	4				
2003	6	16		Lichtkoppler	Dick Reinhold	Painesville	Lake Erie Update	21				
2003	6	16		Lucente	Exchange Club	Columbus	OEA Mtg.			26		
2003	6	16		Kelch	Ohio Extension Agents Assoc.	Columbus	university senate issues	8				
2003	6	17		Lichtkoppler	Ag. Faculty Council sub-comm. Mtg	Mentor	SAMP work	9				
2003	6	17		Snyder	MARC	Whitehouse	Pond Management Techniques	32				
2003	6	17		Williams	business Excel McDonalds	Business Dev	Cleveland	18				

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2003	6	18		Lucente	Fred Snyder, OSU Sea Grant	Port Clinton	Mentoring Activities				2	
2003	6	18		Snyder	District Extension Staff	Findlay	Extension Update	11				
2003	6	19		Hageman	Visitors to Guest Lecture	Gibraltar Island	Dr. Hardendorf, Shipwrecks			52		
2003	6	19		Lucente	C. Van Sickle, C. Bailey, Toledo CH.	Toledo	Leadership Academy Planning	3				
2003	6	19		Snyder	Toledo Blade Interview	Port Clinton	Mayfly Update			x		
2003	6	20		Hageman	Linda Jones, Young Scholars Program	Gibraltar Island	Facilities Tour	2				XX
2003	6	20		Kelch	Ag. Faculty Council sub-comm. Mtg	Columbus	university senate issues	4				
2003	6	20		Lichtkoppler	Lake Erie Coastal Ohio	Toledo	Coastal Tourism Development	15				
2003	6	20		Snyder	Coastal Ohio Board Meeting	Toledo	Administrative Update	15				
2003	6	22		Hageman	Term One Students	Gibraltar Island	Stone Lab Orientation	52				
2003	6	23		Hageman	State Rep. Chris Redfern	Gibraltar Island	Legislative Visit Planning Meeting			8		
2003	6	23		Hageman	Petrask	Gibraltar Island	Facilities Tour			6		
2003	6	23		Lucente	NC OH Regional Econ. Dev. Assoc.	Clyde	NCOREDA Mtg.	4				XX
2003	6	23		Snyder	Sandusky Register Interview	Port Clinton	Mayfly Update			x		
2003	6	23	26	Williams	NPE	Business Dev	Chicago					
2003	6	24		Hageman	Dr. Jane Forsyth	Bowling Green	Provide Transportation to Stone Lab				2	
2003	6	24		Hageman	Joan Marks, Bedford	Gibraltar Island	Facilities Tour			4		
2003	6	24		Kelch	Elyria Rotary Club presentation	Elyria	Lake Erie Dead Zone, angling	37				
2003	6	24	25	Lichtkoppler	Scientists & Agency Officials (IAGLR)	Chicago, IL	SG Outreach & Ohio GAP	42				
2003	6	24		Lucente	Ohio NEMO Program- Focus Group	Huron	NEMO Focus Group	20			x	
2003	6	24		Williams	business Excel McDonalds	Business Dev	Cleveland	18				4
2003	6	25		Hageman	Dr. Larry Capitini	Gibraltar Island	Animal Protocol Inspection					
2003	6	25		Hageman	Put-in-Bay Committee	Gibraltar Island	Ohio Bicentennial Events at Put-in-Bay			8		
2003	6	25		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	14				
2003	6	25		Lucente	Jerry Thomas, OSU Extension	Toledo	PPST Visit				2	
2003	6	25		Lucente	Ottawa County BR&E Announcement	Port Clinton	Announcement Mtg.	20		x		
2003	6	25		Snyder	Press. Elected Officials, ODNR	Port Clinton	Fish Ohio Day on Lake Erie					XX
2003	6	26		Hageman	Visitors to Guest Lecture	Gibraltar Island	Dr. Forsyth, What Rocks Reveal					
2003	6	26		Hageman	Ottawa Nat'l Wildlife Refuge	Gibraltar Island	Aquatic Science Workshop	15				
2003	6	26		Kelch	GM Retired Mgt. Workers presentation	Lorain	Lake Erie update, Dad Zone	55				
2003	6	26		Lichtkoppler	ARP Meetings (Project, Coordinating)	Ashtabula	Ashtabula River Cleanup	19				
2003	6	26		Lucente	BGSU Graduate Class	Bowling Green	Econ. Dev. In Western Lake Erie	10		x		
2003	6	26		Williams	business Excel McDonalds	Business Dev	Cleveland	18				
2003	6	27		Hageman	O.S.U. Wooster Police, Craig Propp	Gibraltar Island	Facilities Tour	1				
2003	6	28		Kelch	NWTF Women in the Outdoors Day	Medina	angling, fish prep, cleaning edu.	95				
2003	6	29		Hageman	EEO 522	Gibraltar Island	Stone Lab Orientation	7				
2003	6	30		Williams	German Rec.	Business Dev	Akron	11				
2003	*4/5	30	1	Hageman	Mills School III, Sandusky	Gibraltar Island	Aquatic Science Workshop			50		
2003	7	1		Williams	Lorain Chamber	Lorain	Business Dev.					XX
2003	7	2		Snyder	WKSU Radio (Kent, OH) interview	Port Clinton	Lake Erie Erosion					
2003	7	2		Williams	Astro Model Dev	Eastlake	company visit	3				
2003	7	3		Hageman	Sea Grant Agents, ODNR Staff	Sandusky	2004 Fishing Regulations	9				
2003	7	3		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Dr. Tom Bridgeman, "Lake Victoria"			36		
2003	7	3		Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. Rockwell, "USEPA L. Erie Research"			43		
2003	7	3		Lucente	Sea Grant Agents, ODNR Staff	Sandusky	2004 Fishing Regulations	9				
2003	7	3		Snyder	Sea Grant Agents, ODNR Staff	Sandusky	2004 Fishing Regulations	9				
2003	7	3		Williams	Web site training	Mentor	education					
2003	7	5	10	Kelch	20th Annual Ohio 4-H Sea Camp	Kelleys Island	Lake Erie Education teaching	80		x		
2003	7	5		Lichtkoppler	Citizens	Mentor	Marsh Management	8				
2003	7	6		Kelch	20th Annual Ohio 4-H Sea Camp	Kelleys Island	Lure making, fish I.d., biology	80				
2003	7	7		Hageman	Sally Miller / Sue Dorrance	Gibraltar Island	Prepare for Plant Pathology Class			4		
2003	7	7		Kelch	20th Annual Ohio 4-H Sea Camp	Kelleys Island	Snorkelling, shipwreck history	80				
2003	7	7		Lucente	Don Lacy, OSUE	Toledo	Local Govt. Leadership Dev.	2	x			
2003	7	8		Kelch	20th Annual Ohio 4-H Sea Camp	Kelleys Island	angling techniques, aquatic bio.	80				
2003	7	8		Lichtkoppler	MARC /SAMP	Mentor on the Lake	angling techniques, aquatic bio.	9				
2003	7	8		Williams	Columbus-Tax Credit committee	Columbus	Planning					
2003	7	8		Kelch	20th Annual Ohio 4-H Sea Camp	Kelleys Island	fish cleaning, fish prep., handling	80				

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2003	7	9		Snyder	Associated Press Interview	Port Clinton	Bait & Tackle Stores					XX
2003	7	9		Williams	Agt. Mtg.	Cleveland	OSU Extension Mtg.	5				
2003	7	10		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Jeff Tyson, "2004 Fishing Regulations"			30		
2003	7	10		Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. David Smith, "Ohio Aquaculture"			47		
2003	7	10		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.				44	
2003	7	10		Snyder	Sea Grant Network Conference Call	Port Clinton	Gt Lke Fish Ldrshp Inst.			8		
2003	7	10		Williams	Business Excel	Greene County	Business Dev.	4				
2003	7	12		Hageman	Kent State Univ. Geology Department	Gibraltar Island	Facilities Tour			20		
2003	7	12		Hageman	Julie Ship	Gibraltar Island	Facilities Tour			5		
2003	7	13		Hageman	EEQ 692	Peach Point Rsch Lab	Ichthyoplankton Workshop	10				
2003	7	14		Hageman	Jake Housh, O.S.U.	Stone Lab	Stone Lab Virtual Tour	1				
2003	7	15		Hageman	Westerville North H. S.	Gibraltar Island	Distance Learning Program, "Fish	10				
2003	7	15		Kelch	Governors SLAC Mtg. sub-committee	Lorain	emergency mtg./concerns/issues	10				
2003	7	15		Lichtkoppler	Lake Erie Protection Fund	Cleveland	Preproposal Review Team	15				
2003	7	15	19	Lucente	Assoc. of Leadership Educators Conf.	Anchorage, AK	Leadership Educators	65				
2003	7	16		Hageman	Ohio Chap American Fisheries Society	Columbus	Aquatic Habitat Committee	6			6	
2003	7	16		Lichtkoppler	City Officials	Mentor	Shamrock Development & Mentor	4				
2003	7	16		Lichtkoppler	City Officials	Painesville	Shamrock Development & Mentor	2				
2003	7	17		Hageman	Cope Family	Gibraltar Island	Facilities Tour					
2003	7	17		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Jason Porter, "Microbes in Lake Erie"			37		
2003	7	17		Hageman	Visitors to Guest Lecture	Gibraltar Island	Dr. Gail Krantzberg, "Role of JG"	42				
2003	7	17		Kelch	Cleveland Fishing Association	Cleveland	ANS update, fishery concerns	45				
2003	7	17		Williams	Legislative visits	OSU Ext.	Cleveland	4				
2003	7	18		Williams	Retention calls company visits	Cleveland	Business Dev.					
2003	7	20		Kelch	Sportsmen's Gun&Reel Club	Lorain	Fish Contaminants, safety	34				
2003	7	20	24	Lucente	Comm. Dev. Society Conf.	Ithaca, NY	Comm. Dev. Society Conf.	210				
2003	7	22		Kelch	Managing Ponds: Resource In-Service	Wooster	Fish Facts, Fish Habitat	80		x		
2003	7	22		Snyder	Managing Ponds: Resource In-Service	Wooster	Pond Ecology	80				
2003	7	22		Williams	Downtown partnerships	Cleveland	Business Dev.	18				
2003	7	23		Kelch	Managing Ponds: Resource In-Service	Wooster	ANS Control, Small Scale Aquac.	80		x		
2003	7	23		Lichtkoppler	College Students & Teachers	Lake Erie Coastline	Coastal Geology (Dr. Kissek's Ch	9				
2003	7	24		Hageman	Term II Students	Gibraltar Island	Stone Lab Orientation	11				
2003	7	24		Hageman	COSI (Toledo)	Gibraltar Island	Aquatic Science Workshop	15				
2003	7	24		Kelch	Steelhead Research Survey Mgt	Painesville	Steelhead survey data mtg.	2				
2003	7	25		Hageman	George Wagner	Gibraltar Island	Facilities Tour			3		
2003	7	25		Hageman	Campbell Family	Gibraltar Island	Facilities Tour			2		
2003	7	27		Hageman	EEQ 125w08	Gibraltar Island	Stone Lab Orientation			13		
2003	7	28		Hageman	Ohio Sea Grant Staff	Columbus	Sea Grant updates/planning	10			8	
2003	7	28		Kelch	Ohio Sea Grant Staff	Columbus	Sea Grant updates/planning	10				
2003	7	28		Lichtkoppler	Ohio Sea Grant Staff	Columbus	Sea Grant updates/planning	10				
2003	7	28		Lucente	Ohio Sea Grant Staff	Columbus	Sea Grant updates/planning	10				
2003	7	28		Snyder	Ohio Sea Grant Staff	Columbus	Sea Grant updates/planning	10				
2003	7	28		Williams	Ohio Sea Grant Staff	Columbus	Sea Grant updates/planning	10				
2003	7	28		Williams	PET	Cleveland	Business Dev.	32				
2003	7	30	2-Aug	Hageman	Photography Students	Gibraltar Island	Ian Adams Photo Workshop			7		
2003	7	30		Kelch	Lorain City, Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	14				
2003	7	30		Williams	McDonalds	Cleveland	Business Dev.					
2003	7	31		Hageman	Environthon Students	Gibraltar Island	Facilities Tour			7		
2003	7	31		Hageman	Visitors to Guest Lecture	Gibraltar Island	Ian Adams, "Ohio: A Bicentennial Portrait"			46		
2003	7	31		Hageman	Visitors to Guest Lecture	Gibraltar Island	Dr. David Horn, "Island Butterflies"			60		
2003	7	31		Lucente	Toledo Area Metro. Council of Govt.	Puk-In-Bay	Legislative Meeting	125				
2003	7	31		Williams	Green Bldg Lorain	OSU Ext.	Cleveland	3				
2003	8	1		Hageman	Lorain County Community College	Gibraltar Island	Aquatic Science Workshop			16		
2003	8	1		Kelch	Aqua Amigos Dive Club	Cleveland	Underwater preserves update	27				
2003	8	2	3	Hageman	State Chapter, Pheasants Forever	Warren	Summer Meeting				24	
2003	8	4		Hageman	Dave Emeling	Gibraltar Island	Facilities Tour			5		
2003	8	4		Kelch	Lorain Rotary Club	Lorain	Lake Erie Dead Zone	39				

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2003	8	4		Williams	Staff Mtg	Growth Assoc.	Cleveland					
2003	8	4		Williams	PET	Cleveland	Business Dev.					
2003	8	5		Hageman	Stone Lab Partners	Columbus	Courier Run			10		
2003	8	5		Kelch	Lake Erie Nature & Science Center	Bay Village	New OSG Exhibit-Dead Zone					XX
2003	8	5	6	Lichtkoppler	GLERL ECO Forecasting	Ann Arbor, MI	Ecological Forecasting Discussion	21				
2003	8	5		Williams	Doing what is necessary	Cleveland	workshop					
2003	8	6		Hageman	Dave Frederick	Gibraltar Island	Facilities Tour			6		
2003	8	6		Williams	Sustainable Bldg.	Huron	workshop					
2003	8	7		Hageman	G.L. Ecosystem Resch Consortium	Gibraltar Island	Annual Summer Meeting				31	
2003	8	7		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Jennifer Morgan, "Phragmites"			42		
2003	8	7		Hageman	Visitors to Guest Lecture	Gibraltar Island	Roger Knight, "Lake Erie Fish Mgmt"			53		
2003	8	7		Kelch	Westlake Sportsmans Club	Westlake	Lake Erie angling, update	65				
2003	8	7		Lichtkoppler	Port Sub-committee	Cleveland	Sea Grant Outreach	35				
2003	8	7	8	Williams	AAPA HARBORS	Cleveland	conference					
2003	8	8		Hageman	OSU Extension, West Division	Gibraltar Island	Office Conference			14		
2003	8	8		Hageman	Boy Scout Troop #369, Columbus	Gibraltar Island	Facilities Tour			15		
2003	8	8		Lucente	West District Office	Gibraltar Island	Strategic Planning Retreat	20				
2003	8	10		Hageman	EEO 125w10, EEO 693	Gibraltar Island	Stone Lab Orientation	23				
2003	8	10	16	Snyder	EEOB 125w10, EEO 693	Stone Lab	Aquatic Biology, 3 credit hours	50	x			
2003	8	11		Hageman	Linda Heyl & Potential Donors	Gibraltar Island	Facilities Tour	4				
2003	8	11		Lichtkoppler	Fish Tumor Subcommittee	Painesville	Fish Tumors Conf Call	6				
2003	8	11		Williams	PET	Cleveland	Business Dev.					
2003	8	12		Hageman	Dr. Oliver, Heidelberg College	Gibraltar Island	Facilities Tour	3				
2003	8	12		Kelch	Vermilion Lions Club	Vermilion	Lake Erie Dead Zone	35				
2003	8	12		Kelch	Lorain City Extension Pond Seminar	Elyria	pond mgt education, biology	45				
2003	8	12		Lucente	Marion County Extension Office	Marion	Local Govt. Leadership Program	2	x		x	
2003	8	13		Hageman	Put-In-Bay Nature Camp	Gibraltar Island	Facilities Tour / Activities				18	
2003	8	13		Kelch	Lorain City, Visitors Bureau Sub-comm	Lorain	LCVB Policy Issues	8	x			
2003	8	13		Williams	AGT, MTG	Cleveland	Agent Meeting					
2003	8	14		Hageman	Ohio Legislators	Gibraltar Island	Facilities Tour / Activities				175	
2003	8	14		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Don Guy, "Beach Nourishment"				30	
2003	8	14		Hageman	Visitors to Guest Lecture	Gibraltar Island	John Kleberg, "Jay Cooke"				42	
2003	8	14		Lichtkoppler	Ohio Legislators	Put-In-Bay	Lake Erie issues, ANS	50				
2003	8	14		Lucente	Ohio Legislators	Put-In Bay	Lake Erie issues, ANS	50				
2003	8	14		Williams	Ohio Legislators	Put-In Bay	Lake Erie issues, ANS	50				
2003	8	18		Hageman	Joan Marks	S.B. Island Lighthouse	Lighthouse Tour	2				
2003	8	18		Lichtkoppler	Researchers	Painesville	Coastal Erosion	4				
2003	8	18		Williams	PET	Cleveland	Business Dev.	25				
2003	8	19		Hageman	Stone Lab Staff	Columbus	2004 Stone Lab Curriculum				5	
2003	8	19		Hageman	Stone Lab Partners	Columbus	Courier Run				8	
2003	8	19		Lichtkoppler	MARC /SAMP	Mentor-on-the-Lake	Program Planning	8				
2003	8	19		Snyder	Coastal Ohio	Port Clinton	Board & Staff Devel. Comm.	5				
2003	8	20		Kelch	WFOI Radio Interview	Elyria	Toxic Algae, angling					XX
2003	8	21		Hageman	Jim Blue, Anchor, WNWVO TV News	Gibraltar Island	Microcystis Bloom	45				XX
2003	8	21		Kelch	Fin-Feather Fur Outfitters Store	Ashland	Lake Erie perch/malimouth sem			x		
2003	8	21		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	11				
2003	8	21		Lucente	Carolyn Shermbeck, Toledo CVB	Toledo	Lake Erie West Guide	2				
2003	8	21		Snyder	West District Staff	Findlay	District Staff Meeting	12				
2003	8	21		Williams	Inservice Grantsmanship	Columbus	Leadership					
2003	8	21		Hageman	Ohio Chapter American Fisheries Society	Peach Point Resch Lab	Summer Meeting			25		
2003	8	22		Lichtkoppler	Lake Erie Coastal Ohio	Elyria	Ex Comm Meeting	5				
2003	8	22		Snyder	Ohio Sen. Randy Gardner	Lakeside	Lake Erie Issues Tour	5				
2003	8	23		Hageman	Dan Hall	Gibraltar Island	Facilities Tour			11		
2003	8	24		Hageman	Ohio E.P.A. District Office	Bowling Green	Supplies, PIB Underwater Clean-up			2		
2003	8	25		Hageman	OSU Resident Life	Gibraltar Island	Stone Lab Orientation	53				
2003	8	25		Kelch	Cleveland Fishing Association	Cleveland	Lake Erie update	39				
2003	8	25		Lucente	Greg Davis, West District	Findlay	Leadership Development Paper	2				

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2003	8	25		Lucette	ODNR Coastal Zone Mgmt.	Sandusky	Grant Review Team Mtg.	8				
2003	8	25		Williams	PET	Cleveland	Business Dev.	25				
2003	8	26		Hageman	Curtis Meyer	Gibraltar Island	Facilities Tour	3				
2003	8	26		Hageman	Tom Izod	Gibraltar Island	Video Footage of Stone Lab	1				
2003	8	26		Hageman	Sea Grant Extension	Put-In-Bay	Conf. Call Re: GLFLI				5	
2003	8	26		Williams	Business Excel Team Mtg.	Columbus	Business Dev.	11				
2003	8	27		Lichtkoppler	ARP Meetings (Project, Coordinating)	Ashtabula	Ashtabula River Cleanup	24				
2003	8	27		Lichtkoppler	ARP Annual Meeting	Ashtabula	Ashtabula River Cleanup	35				
2003	8	27		Lucette	John Patterson, Monroe, MI CVB	Monroe, MI	Lake Erie West Guide	3	x	x		
2003	8	28	29	Hageman	OSU Extension, West District	Gibraltar Island	Ohio Watershed Leadership Work	55			14	
2003	8	28		Lichtkoppler	CSU Coastal Training	Old Woman Creek NERR	Coastal Training Initiative					
2003	8	28		Lucette	CBS Corridors Coalition	Toledo	Committee Mtg.	18				
2003	8	28		Snyder	CSU Coastal Training	Old Woman Creek NERR	Coastal Training Initiative				14	
2003	8	28		Williams	CSU Coastal Training	Old Woman Creek NERR	Coastal Training Initiative				14	
2003	8	29		Hageman	Great Lakes Commission	Gibraltar Island	Summer Meeting			12		
2003	8	29		Hageman	Genoa H.S. German Club	Gibraltar Island	Exchange Student Tour	11				
2003	9	2	3	Hageman	Hilliard Station I, Hilliard	Gibraltar Island	Aquatic Science Workshop				32	
2003	9	3	4	Hageman	Hilliard Station II, Hilliard	Gibraltar Island	Aquatic Science Workshop				33	
2003	9	3		Lichtkoppler	GLSGN Program Leaders	Painesville	Aquatic Science Workshop	9				
2003	9	3		Lucette	ODNR Coastal Zone Mgmt.	Toledo	Conference Call	1				
2003	9	3		Snyder	GLSGN Program Leaders	Port Clinton	Conference Call	9				
2003	9	4	5	Hageman	Hilliard Station III, Hilliard	Gibraltar Island	Aquatic Science Workshop			42		x
2003	9	4		Kelch	Aquaculture visit	New London	visit prawn/crayfish farm					
2003	9	4		Lucette	ODNR Coastal Zone Mgmt.	Toledo	Review Grants	1				
2003	9	4		Williams	Friends of Lake Erie	Cleveland	Sea Grant	34				
2003	9	5	7	Hageman	Friends of Stone Lab Board	Gibraltar Island	Annual Meeting				16	
2003	9	5		Kelch	OSUE Directors Internal A/C mtg.	Columbus	Extension Dept. Issues/concerns	15				
2003	9	5		Lucette	ODNR Coastal Zone Mgmt.	Toledo	Review Grants	1				
2003	9	5		Williams	Company site visits	Summit Co.	Business Dev.	3				
2003	9	6		Hageman	Visitors of Open House	Gibraltar Island	Gibraltar Island Open House	900				
2003	9	6	7	Hageman	Friends of Stone Lab	Gibraltar Island	Homecoming Weekend	52				
2003	9	8		Hageman	Portage Elementary School, Gypsum	Gibraltar Island	Aquatic Science Workshop				55	
2003	9	8	9	Hageman	Grace Brethren Home School, Galena	Gibraltar Island	Aquatic Science Workshop				13	
2003	9	8		Kelch	Lorain County Extension Office	Elyria	New OSG Exhibit-Dead Zone					XX
2003	9	8		Lucette	LeAnn Harbaum, Monroe, MI CVB	Monroe, MI	Lake Erie West Guide	3	x	x		
2003	9	8		Williams	OSU All Staff mtg	OSU	Cleveland	28				
2003	9	9		Hageman	Ohio Sea Grant Extension	Port Clinton	Staff Meeting				8	
2003	9	9		Hageman	Bataan School, Port Clinton	Gibraltar Island	Aquatic Science Workshop				43	
2003	9	9		Hageman	Jonathan Alder H.S., Plain City	Gibraltar Island	Aquatic Science Workshop				25	
2003	9	9	10	Lichtkoppler	Sea Grant Staff Mtg.	Port Clinton	Program Planning	8				
2003	9	9		Snyder	Sea Grant Staff Mtg.	Port Clinton	Program Planning				8	
2003	9	9		Williams	Sea Grant Art mtg	Sea Grant	Port Clinton	9				
2003	9	10		Hageman	Eldersheim IV, Put-In-Bay	Gibraltar Island	Aquatic Science Workshop				28	
2003	9	10	11	Hageman	Katie Lynch, OSU Art Dept.	Gibraltar Island	Art Project Reconnaissance	3				
2003	9	10	11	Hageman	Columbus Jewish Day School, New Alb	Gibraltar Island	Aquatic Science Workshop				15	
2003	9	10		Kelch	Promotion/Tenure Vita Review-cha	Elyria	final review of candidate vitas		x	x		
2003	9	10		Snyder	Marina Managers, Gen. Public	Sandusky	Clean Marinas Booth					XX
2003	9	10		Williams	OSU art mtg	OSU	Cleveland	5				
2003	9	11	12	Hageman	Bexley M.S., Columbus	Gibraltar Island	Aquatic Science Workshop				42	
2003	9	11		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	12				
2003	9	11		Lucette	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	44				
2003	9	12	14	Hageman	Great Lakes Fisheries Commission	Gibraltar Island	Fisheries Conference	28				
2003	9	12	14	Kelch	Great Lakes Fisheries Leadership Inst.	Put-In-Bay	GLFI educational conference	30			x	
2003	9	12	14	Lichtkoppler	GLFI Workshop	Stone Lab	Fisheries Mtg.	24				
2003	9	12	13	Snyder	Ohio's Great Lakes Fish. Ldrship Inst.	Stone Lab	Fisheries Leadership Training	25			x	
2003	9	12		Williams	Business Excel team mtg.	Columbus	Business Dev.	2				
2003	9	14		Kelch	Great Lakes Fishery Leadership Inst.	Put-In-Bay	Fish Contaminants, ANS issues	30			x	

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2003	9	15		Hageman	Ottawa Co. Farm Services Agency	Gibraltar Island	Conference				15	
2003	9	15		Hageman	Volunteers for Clean Up	Put-in-Bay	11th Put-in-Bay Underwater Clean-up				163	
2003	9	15		Hageman	Pheasants Forever Board	Oak Harbor	Monthly Meeting	11				
2003	9	15	17	Hageman	The Wellington School, Columbus	Gibraltar Island	Aquatic Science Workshop				62	x
2003	9	15	24	Kelch	Interview Team: Lor. Cty. Extension	Elyria	Aquatic Science Workshop				27	
2003	9	16		Hageman	Elderhostel V, Put-in-Bay	Gibraltar Island	Aquatic Science Workshop				116	
2003	9	16		Hageman	Lake Erie Is. Chap., Ducks Unlimited	Put-in-Bay	Annual Fundraising Banquet					
2003	9	16		Lichtkoppler	Sea Grant Committee	Unionville		3				
2003	9	17	18	Hageman	Evangel Christian Academy, Gahanna	Gibraltar Island	Aquatic Science Workshop				37	
2003	9	18		Hageman	St. Mary's of the Falls, Onsted Falls	Gibraltar Island	Aquatic Science Workshop				24	
2003	9	18	19	Hageman	Dempsey M.S., Delaware	Gibraltar Island	Aquatic Science Workshop	41				
2003	9	18	19	Hageman	Bellevue H.S., Bellefontaine	Gibraltar Island	Aquatic Science Workshop				8	
2003	9	18		Kelch	Fin-Feather-Fur Outfitters Store	Ashland	Lake Erie Fall Walleye seminar	45			x	
2003	9	18		Snyder	West District Staff	Findlay	District Staff Meeting	11				
2003	9	19	20	Hageman	Milford Jr. High, Milford	Gibraltar Island	Aquatic Science Workshop				24	
2003	9	20		Hageman	Boy Scout Troop #77, Westlake	Gibraltar Island	Facilities Tour				20	
2003	9	20		Hageman	Boy Scout Troop #253, Kent	Gibraltar Island	Facilities Tour				25	
2003	9	22	23	Hageman	The Andrews School, Willoughby	Gibraltar Island	Aquatic Science Workshop				41	
2003	9	23	25	Hageman	The Wellington School, Columbus	Gibraltar Island	Aquatic Science Workshop				55	
2003	9	23		Hageman	Elderhostel VI, Put-in-Bay	Gibraltar Island	Aquatic Science Workshop				21	
2003	9	23		Hageman	Bruce Leach, Bio-Sci Library	Gibraltar Island	Fall Stone Lab Library Maintenance				2	
2003	9	23		Lucente	Christine Bailey, Toledo Chamber	Toledo	Leadership Academy Planning	2	x			
2003	9	23		Snyder	Sandusky County 4th Grade Students	Fremont	Aquatic Biology	170				
2003	9	23		Williams	Economic Dev. Network	Brecksville	Business Dev.	55				
2003	9	24		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	19				
2003	9	24		Lichtkoppler	ARP Meetings (Project, Coordinating)	Ashabula	Ashabula River Cleanup	16				
2003	9	24		Lucente	Ken Weiffaert, CBS Corridors Coalition	Toledo	BR&E Project for CBS Corridors	2				
2003	9	24		Lucente	Michelle Gligore, Toledo Bot. Garden	Toledo	NW OH Greenhouse Industry	2				XX
2003	9	24		Snyder	www.walleyecentral.com	Fremont	Online Lake Erie Q&A					
2003	9	25		Hageman	Franklin Elementary, Elyria	Gibraltar Island	Aquatic Science Workshop				34	
2003	9	25	26	Hageman	Highland H.S., Medina	Gibraltar Island	Aquatic Science Workshop				35	
2003	9	25		Kelch	Interview Team: Lor. Cty. Extension	Elyria	Interview, hire secretary	15				
2003	9	25		Williams	Cuyahoga Rap	Peninsula	Sea Grant	12				
2003	9	26		Hageman	Lakota M.S., Amsteden	Gibraltar Island	Aquatic Science Workshop	31				
2003	9	26		Lichtkoppler	Lake Erie Coastal Ohio (ex Comm & Fu	Geneva	Coastal Tourism	12				XX
2003	9	26		Snyder	Lake Erie Coastal Ohio	Geneva	Coastal Tourism	12				
2003	9	26		Williams	BREI board mtg	Columbia, SC	Business Dev.	8				
2003	9	28	28	Kelch	Sportsmans Gun&Reel Club	Lorain	Lake Erie Fall Angling	24				
2003	9	29		Hageman	West Holmes H.S., Millersburg	Gibraltar Island	Aquatic Science Workshop				17	
2003	9	29	30	Hageman	Brecksville H.S., Broadview Hts	Gibraltar Island	Aquatic Science Workshop				19	
2003	9	30	*10/01	Hageman	Worthingway M.S., Worthington	Gibraltar Island	Aquatic Science Workshop				68	
2003	9	30		Lichtkoppler	Ohio Sea Grant Review Panel	Columbus	Sea Grant Proposal Review Team	9				
2003	9	30		Snyder	Ohio Sea Grant Review Panel	Columbus	Sea Grant Proposal Review Team	8				
2003	10	1		Hageman	Worthingway M.S. / Worthington	Gibraltar Island	Aquatic Science Workshop				68	
2003	10	1	3	Hageman	Columbus School for Girls	Gibraltar Island	Aquatic Science Workshop	49				
2003	10	1		Williams	Smart Growth committee	Community Economic	Columbus					
2003	10	2		Hageman	St. Vincent DePaul / Elyria	Gibraltar Island	Aquatic Science Workshop				28	
2003	10	3		Hageman	Brad Troller / Wanda Schirkev	Gibraltar Island	Cooke Castle Tour	3				
2003	10	3		Hageman	OSU Extension, Tuscarawas Co.	Gibraltar Island	Facilities Tour	8				
2003	10	3		Hageman	Meadowlawn School / Perkins Twp.	Gibraltar Island	Aquatic Science Workshop				29	
2003	10	3	4	Hageman	Mt. Union College / Alliance OH	Gibraltar Island	Field Trip	6				
2003	10	3	4	Lichtkoppler	Anglers	Erie, PA	Great Lakes Fishery Leadership Institute	45				
2003	10	3		Williams	PET - Sponsors mtg	Business Dev	Cleveland					
2003	10	4	5	Hageman	Buckeye Island Hop	Gibraltar Island	Work Weekend	40				
2003	10	4		Williams	Northeast Ohio's waterways	Sea Grant	Cleveland					
2003	10	5		Hageman	Black Swamp Conservancy	Put-in-Bay	Bass Island Conservation	20				7
2003	10	6		Hageman	Amherst Steele / Amherst OH	Gibraltar Island	Aquatic Science Workshop				53	

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2003	10	6		Kelch	Promotion/Tenure Vita Review Mtg.	Elyria	P&T committee, vita review	7	x		x	
2003	10	6		Lucente	Lucas County Staff	Toledo	Office Conference	10				
2003	10	7		Hageman	Meadowlawn School / Perkins Twp.	Gibraltar Island	Aquatic Science Workshop				51	
2003	10	7	9	Kelch	Promotion/Tenure Chair Responsibility	Elyria	compose, review, edit letters		x		x	
2003	10	7		Lichtkoppler	OSUE Faculty	Columbus	Promotion & Tenure Committee	9				
2003	10	7		Lucente	Jim Wiedenheft, Ottawa County Ext.	Toledo	Ottawa County BR&E Program	2			x	
2003	10	7		Snyder	Mayor Brown's Core Committee	Port Clinton	Municipal Marina Development	22			x	
2003	10	8	9	Hageman	Rocky River M.S. / Rocky River, OH	Gibraltar Island	Aquatic Science Workshop	6			45	
2003	10	8		Lichtkoppler	Sea Grant Agents & PIJAC	Painesville	Aquatic Science Workshop	2				
2003	10	8		Lucente	Dawn Malone, OH BR&E Initiative	Toledo	CASCC BR&E Project Prop.	2			x	
2003	10	8		Snyder	Leadership Ottawa County	Oak Harbor	Lake Erie Issues Update	16				
2003	10	8	10	Hageman	Robinson Jr. High / Toledo, OH	Gibraltar Island	Aquatic Science Workshop	12			19	
2003	10	9		Lichtkoppler	Clean Marina Board	Huron	Clean Marinas Program Devel.	44				
2003	10	9		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	12				
2003	10	9		Snyder	Clean Marinas Board	Huron	Clean Marinas Program Devel.	12				
2003	10	10		Hageman	Bo Zhang, OSU Engineer	Stone Lab	Building Renovations				4	
2003	10	10	11	Hageman	Granville M.S. / Granville, OH	Gibraltar Island	Aquatic Science Workshop				18	
2003	10	10	12	Hageman	OSU Plankton Class	Gibraltar Island	Field Trip				14	
2003	10	10		Kelch	OSU Ag Faculty Council Mtg.	Columbus	Faculty Issues, university senate	25				
2003	10	11	12	Hageman	Little Princesses / Columbus, OH	Gibraltar Island	Aquatic Science Workshop				17	
2003	10	13		Hageman	Avon High School / Avon, OH	Gibraltar Island	Aquatic Science Workshop				49	
2003	10	13	15	Hageman	Hudson M.S. I	Gibraltar Island	Aquatic Science Workshop				39	
2003	10	13	16	Lichtkoppler	OSUE Faculty	Painesville	Journal Article Rewrite	3				
2003	10	13		Lucente	Fred Snyder, OSU Sea Grant	Port Clinton	Mentoring Activities	2				
2003	10	15	17	Hageman	Hudson M.S. II	Gibraltar Island	Aquatic Science Workshop				37	
2003	10	16		Kelch	Westlake Sportsmans Club	Westlake	Lake Erie update, fall angling	54				
2003	10	16		Lucente	Ohio Development Association	Columbus	ODA Summit	95				
2003	10	16	17	Lucente	Mid-West Ed. Research Assoc.	Columbus	Conference Presentation	220				
2003	10	17		Hageman	Owens Community College / Toledo	Gibraltar Island	Aquatic Science Workshop				3	
2003	10	17		Snyder	OSUE District Staff	Findlay	Office Conference	11				
2003	10	20		Hageman	Pheasants Forever, Chapter 291	Oak Harbor	Monthly Board Meeting	3				
2003	10	20	21	Hageman	Hathaway Brown / Shaker Hts, OH	Gibraltar Island	Aquatic Science Workshop				77	
2003	10	20		Snyder	OFAA Committees	Columbus	Professional Improvement	35				
2003	10	21		Kelch	Central Basin Charterboat Assn. Mtg.	Lorain	Lake Erie dead zone	37				
2003	10	21		Lichtkoppler	MARC Members	Mentor on the Lake	Special Area Management Plan	7				
2003	10	21		Lichtkoppler	Mentor City Council	Mentor	SAMP Update	12				
2003	10	21		Lucente	Jim Wiedenheft, Ottawa County Ext.	Toledo	Business Mtg.	2				
2003	10	21		Williams	H&L Nonwoven DEAL TEAM MTG	Business Dev	Cleveland	5				
2003	10	22	23	Hageman	Hilliard Tharp M.S. I	Gibraltar Island	Aquatic Science Workshop				44	
2003	10	22		Lichtkoppler	ARP Board	Ashtabula	Ashtabula River Cleanup	20				
2003	10	22		Williams	Water & Soil	Sea Grant	Valley View	2				
2003	10	23	24	Hageman	Hilliard Tharp M.S. II	Gibraltar Island	Aquatic Science Workshop				44	
2003	10	23		Kelch	Midview Middle School Biology classes	Grafton	ANS, Dea Zone presentation	86				
2003	10	23		Lucente	Cherry, Bancroft Summit CC Coal.	Toledo	Business Retention and Exp.	15				
2003	10	27	28	Hageman	Jackson M.S. / Grove City	Gibraltar Island	Aquatic Science Workshop	8			66	
2003	10	27		Lichtkoppler	Sea Grant Agents & PIJAC	Painesville	Aquatic Science Workshop					
2003	10	29		Kelch	Lorain City, Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	16				
2003	10	29		Snyder	West District Applied Research Comm.	Port Clinton	Program Planning	4			x	
2003	10	30		Lichtkoppler	OSUE Agents	Ravenna	URS Reporting	12				
2003	10	30		Williams	International Business Reception	Business Dev	Columbus	66				
2003	10	31		Williams	Smart Growth committee	Education	Columbus					
2003	11	2	7	Lucente	Sea Grant Smart Growth Conference	Washington, D.C.	Sea Grant CD Agents	42				
2003	11	3		Lichtkoppler	Painesville City Council	Painesville	SAMP Update		14			
2003	11	3		Snyder	Mayor Brown's Core Committee	Port Clinton	Municipal Marina Development	18			x	
2003	11	4		Hageman	OSU Extension, West District	Findlay	Fireside Chat, Update					190
2003	11	4		Snyder	West District Faculty & Staff	Findlay	OSUE Fireside Chat					150
2003	11	5		Lichtkoppler	Clean Ohio Council NE Dist.	Chardon	Mentor Marsh TNC Proposal	25				

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2003	11	5		Lichtkoppler	NOAA Coastal Mgt Eval Team	Cleveland	Ohio Coastal Mgt Program Eval	9				
2003	11	5		Williams	Lunch Bill McClung John Cong	Ext	Cleveland	2				
2003	11	6		Kelch	Lorain Cty. Bass Busters	Elyria	smallmouth bass, goby issue	27				
2003	11	6		Williams	H&L Nowoven	Business Dev	Cincinnati	5				
2003	11	11		Hageman	Stark Co. Power Squadron	Hartsville	Stone Laboratory Research	48				
2003	11	12		Kelch	Grafton Kiwanis Club	Grafton	Dead Zone presentation	34				
2003	11	12		Lichtkoppler	Sea Grant Agents & PIJAC	Painesville	Aquarium ANS Grant / Survey	5				
2003	11	12		Lucente	Noble Lansford, Oklahoma State U.	Toledo	Conference Call	2				
2003	11	12		Snyder	ODNR Division of Watercraft Conf.	Toledo	Aq. Invasives - Impacts & Control	300				
2003	11	13	13	Kelch	Sea Camp Planning Mtg.	Columbus	2004 sea camp planning	13				
2003	11	13		Lucente	NW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	40				
2003	11	14		Kelch	OCES In-Service, Fireside chat	Wooster	extension update, issues				x	
2003	11	14		Lichtkoppler	OSUE North Dist Faculty & Staff	Wooster	OSUE Update				65	
2003	11	14		Williams	Fireside chat	Ext	Wooster					
2003	11	17		Hageman	Pheasant Forever, Chapter 291	Oak Harbor	Monthly Board Meeting	6				
2003	11	17		Kelch	Lorain Cty. Visitors Bureau sub-comm	Lorain	LCVB Policy Issues	8	x			
2003	11	17		Williams	Junior Achievement	Cleveland	Education	29				
2003	11	17		Williams	staff mtg @ Growth	Cleveland						
2003	11	18		Kelch	Ohio Sea Grant Staff	Huron	Staff Meeting	8				
2003	11	18		Lichtkoppler	Ohio Sea Grant Staff	Huron	Staff Meeting	8				
2003	11	18		Lucente	Ohio Sea Grant Staff	Huron	Staff Meeting	8				
2003	11	18		Snyder	GLSGN - AIS-HACCP Committee	Port Clinton	2004-2005 Programs	7		x		
2003	11	18		Williams	Ohio Sea Grant Staff	Huron	Staff Meeting	8				
2003	11	18		Williams	CIRI Industrial Roundtable	Cleveland	Business Devel.	12				
2003	11	18		Williams	Ohio Sea Grant Staff	Huron	Staff Meeting	8				
2003	11	19		Hageman	Ohio Chap. American Fish. Soc.	Hebron	Executive Committee Meeting				10	
2003	11	19		Lichtkoppler	GL Sea Grant Program Leaders	Painesville	Great Lakes SG Network	8				
2003	11	19		Lucente	Community Development State Staff	Columbus	CD Quarterly Mtg.	10				
2003	11	19		Snyder	GLSGN - Program Leaders Conf. Call	Port Clinton	Great Lakes Program Planning	8				
2003	11	19		Williams	CD Quarterly mtg	Ext	Columbus	8				
2003	11	20		Lucente	Jerry Thomas, West District Director	Toledo	Conference Call	2				
2003	11	20		Lucente	Ann Moore, Toledo Chamber	Toledo	Business Mtg.	2				
2003	11	20		Snyder	OSUE District Staff	Findlay	Office Conference	12				
2003	11	20		Williams	Cuyahoga Rap	Richfield, OH	Sea Grant	4				
2003	11	21		Lichtkoppler	Lake Erie Coastal Ohio	Elyria	Coastal Tourism	2				
2003	11	21		Lucente	Megan Agv. NOAA	Toledo	Conference Call	2				
2003	11	24		Williams	Junior Achievement	Education	Cleveland	28				
2003	11	25		Kelch	GM Retired Mgt. Workers presentation	Elyria	fish consumption advisory update	47				
2003	11	25		Lucente	OSU Extension	Shelby County	Vita Workshop	22				
2003	11	25		Williams	Business Excel	Planning	Columbus	2				
2003	11	25		Williams	H&L Nowoven	Business Dev	Cleveland	5				
2003	11	26		Hageman	Dr. Orlando Sarnelle/ Steve Hamilton	Stone Lab	Research Opportunities	2				
2003	11	28		Lucente	OSUE Smart Growth Committee	Toledo	Conference Call	10				
2003	12	1		Lichtkoppler	Sea Grant Agents & PIJAC	Painesville	Aquarium ANS Grant / Survey	6				
2003	12	1		Williams	Junior Achievement	Education	Cleveland	28				
2003	12	2		Williams	CD quarterly mtg.	Presentation	Wooster	12				
2003	12	3		Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism Issues and Planning	14				
2003	12	4		Hageman	Ohio Chap. American Fish. Soc.	Hebron	Student Research Forum				5	
2003	12	4		Lucente	Lucas County Advisory Cabinet	Toledo	Advisory Cabinet Mtg.	16				
2003	12	5		Lichtkoppler	Lake County Officials	Mentor	Emergency Planning				25	
2003	12	5		Lucente	Dean Monske, Oregon Econ. Dev.	Oregon	BR&E Mtg.	2				
2003	12	9		Kelch	OSUE In-service, Go Bucks Conference	Wooster	extension update, issues				x	
2003	12	9		Lichtkoppler	Grand River Partners	Jefferson	Partnership update	24				
2003	12	9		Lucente	OSU Extension	Bowling Green	GO BUCKS Conference	45				
2003	12	9		Snyder	OSUE Go Bucks Conference	Columbus	State Updates				135	
2003	12	9		Lichtkoppler	OSU Faculty & Staff Recognition Brunch	Columbus	Service Award				125	
2003	12	10		Kelch	Lorain Cty. Visitors Bureau sub-comm	Lorain	LCVB Policy Issues	6	x			

Ohio Sea Grant Extension
1st, 2nd, 3rd 4th Quarters 2003
Combined Activities

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2003	12	11		Keich	West Cleveland Walleye Assn. Mtg.	Cleveland	ANS & Dea Zone	39				
2003	12	11		Lichtkoppler	North Coast Charter Captains	Grand River	Ohio Charter Survey Results	45				
2003	12	11		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	15				
2003	12	11		Lucente	NNW OH Regional Econ. Dev. Assoc.	Toledo	NORED Mtg.	40				
2003	12	12		Lucente	West District Staff	Findlay	Applied Research In-Service	14				
2003	12	12		Snyder	West District Faculty & Staff	Findlay	Applied Research Training	18		X		
2003	12	15		Lichtkoppler	Local County Officials	Mentor	Networking	6				
2003	12	15		Snyder	Mayor Brown's Core Committee	Port Clinton	Municipal Marina Development	18		X		
2003	12	15		Snyder	GLSGN - AIS-HACCP Committee	Port Clinton	2004-2005 Programs	7		X		
2003	12	15		Snyder	Toledo Sea Grant Ext Advisory Comm	Toledo	Sea Grant Program Overview	10				
2003	12	16		Lichtkoppler	Sea Grant Agents & PIJAC	Painesville	Aquarium ANS Grant / Survey	8				
2003	12	16		Lichtkoppler	MARC Members	Mentor on the Lake	Special Area Management Plan	9				
2003	12	17		Lichtkoppler	ARP Board	Ashabula	Ashabula River Cleanup	21				
2003	12	17		Lucente	Lucas County Sea Grant Adv. Comm.	Toledo	Advisory Committee Mtg.	15				
2003	12	18		Hagaman	Sea Grant Extension	Put-In-Bay	Strategic Plan, Conf. Call				8	
2003	12	18		Lichtkoppler	Ohio Sea Grant Agents	Painesville	Conf call Program Planning	9				
2003	12	18		Lucente	Lucas County Staff	Toledo	Office Conference	12				
2003	12	18		Lucente	Sea Grant Agents	Toledo	Conference Call	8				
2003	12	18		Snyder	OSUE District Staff	Findlay	Office Conference	13				
2003	12	18		Snyder	Ohio Sea Grant Staff Conf. Call	Port Clinton	Program Planning	7		X		
2003	12	19		Lucente	Gail Ritzler, Greg Davis, OSUE	Toledo	Performance Evaluation	3				
2003	12	19		Snyder	Coastal Ohio	Oak Harbor	Full Board Meeting	19				
2003	12	20		Keich	Great Lakes Historical Asso. & MAST	Vermilion	Underwater Preserve Issue	72				
2003	12	22		Snyder	GLSGN Conference Committee	Port Clinton	Conference Initiation call	9				
TOTALS								13446	142	5331	2018	