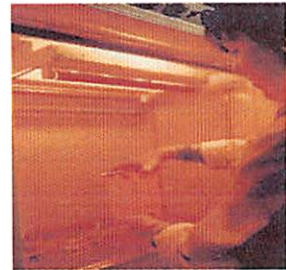




Sea Grant

Ohio Sea Grant College Program



RESEARCH EDUCATION OUTREACH



Ohio Sea Grant College Program
Progress Report 2001 - 2002



Jeffrey M. Reutter, Ph.D, Director
Final Report
OHSU-TB-064



Ohio Sea Grant College Program Progress Report 2001 - 2002

OHIO SEA GRANT

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OHSU-TB-064
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Ohio Sea Grant College Program Progress Report 2001-2002



CONTENTS

Program Highlights

Appendices

Appendix A: Program Funding

Appendix B: Institutions Involved

Appendix C: Projects Supported, Publications and Presentations from Projects

Appendix D: Communications

Publication Series & Distribution

Web Site

Newsletter

Media Relations and Coverage

Collaboration and Special Projects

Appendix E: Extension

Accomplishments

Activities

Program Highlights from 2002

This has been a great year for the program, but a year where the economy created serious challenges for the State of Ohio, The Ohio State University, and our endowments.

Enrollment at Stone Laboratory. During the summer of 2002, a total of 199 students from 22 colleges and universities and 51 high schools took college courses at Stone Laboratory, up from 185 students from 18 colleges and 40 high schools in 2001. Since 1990, students from 88 colleges and universities and 302 high schools have taken college courses at Stone Laboratory. With the assistance of the FOSL we were able to award 49 scholarships (up from 32 in 2001) totaling \$17,736 (new record) in 2002. Included in this total were 7 scholarships awarded 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 162 groups and 5,288 participants in 2001, and 153 groups and 5755 participants (new record) in 2002.

Research. During 2002, 23 investigators and 53 students and technicians from 15 agencies and universities worked on 22 research projects at Stone Laboratory. During 2001-2002 Ohio Sea Grant supported 25 large research projects and 13 development fund projects at 13 universities and agencies. During 2001-2002 Sea Grant scientists produced 59 publications and 154 scientific presentations, and supported 22 graduate students.

Celebrations and Losses. In 2002 we celebrated the 25th anniversary of the Ohio Sea Grant College Program and the 20th anniversaries of both the founding of the Friends of Stone Laboratory and Ohio Sea Grant's first State Legislature/Congressional Day on Lake Erie. We mourned the loss of Dr. Walter Carey, former Associate Director of Stone Laboratory, and Franz T. Stone, a strong supporter of Stone Laboratory and the son of Julius Stone, who donated Gibraltar Island to Ohio State University in 1925.

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 this year, 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 should arrive during 2003. **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 early 2003.

Web Site and Electronic Reports. Our web site (www.sg.ohio-state.edu) was significantly improved in 2001 and 2002 to make it more useful to students, teachers, scientists, elected officials, and the general public. 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, and in 2002 it had 1,623,916 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 Research Endowments. Clearly 2002 was a banner year for our fundraising efforts and the creation of new research/education endowments. Two new research/education endowments totaling approximately \$1 million were created and another totaling approximately \$1 million is nearing completion.

Selected 2001 Highlights

ANS Report. In March 2001 we completed a national update of all Sea Grant research and outreach projects through 2000. The outstanding report contains information on 22 aquatic nuisance species reported by 24 Sea Grant programs around the country. It is available from this office and in PDF format at our web site.

Twine Line Award. 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."

Stone Lab Publications Award. The Stone Laboratory Brochure and Flier took first place in the brochures category during the publications competition at Sea Grant Week 2001.

20th Anniversary Ohio Charter Captains' Conference. 2001 was the 20th anniversary of the Ohio Charter Captain's Conference. This conference was started in 1981 by Sea Grant District Extension Specialist, Fred Snyder. It is the largest charter conference in the country. In 2002, 256 licensed captains and 10 speakers attended. A survey of the attendees indicated that as a result of participating in these conferences, 71 % indicated they had improved the profitability of their businesses, 85 % had changed their business practices, and 95 % had implemented improved business practices.

20th Anniversary at Cleveland Shows. 2001 was our 20th consecutive year of hosting a booth, providing educational material, and surveying participants at the Cleveland Boat Show and the American/Canadian Outdoor Show. Our booth space in these shows has always been donated by the show management because they recognize the value of our participation and they wish to do their part to assist us with our educational mission.

Cooke Castle. Roof and window replacement were completed in 1998. In 1999 the State Legislature appropriated a second \$500,000 to continue our renovation of Jay Cooke's Castle at Stone Laboratory on Gibraltar Island. This mansion was constructed in 1865 and has been designated a "National Historic Landmark." Using the second appropriation, all exterior renovations were completed in 2001 including the construction of two porches. When renovated, the Castle will be used as an educational conference facility for corporate groups and decision-makers within the region. The focus will be on Lake Erie research and management. We are now trying to raise approximately \$2.5 million dollars to totally renovate the interior.

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.

- In February 2001 and 2002 we hosted the third and fourth Sea Grant/Stone Laboratory Winter Lecture Series in Columbus. These programs focused on shipwrecks in Lake Erie and aquatic research conducted at the Columbus Zoo and Aquarium.
- In June 2001 we hosted our first Lake Erie Institute for Newly Elected Officials. Ten offices were represented.
- In July 2001, we co-hosted a special Put-in-Bay Legislative Day developed by State Representative Chris Redfern with the village of Put-in-Bay and a number of other sponsors. Over 45 State Representatives and Senators attended.
- In July 2001 we lead a special field trip to Stone Laboratory and Perry's Monument from the Coastal Zone 2001 Conference in Cleveland. The conference leadership said it was the best field trip at the Conference.
- 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 August 2001 we hosted the Fourth Annual Stone Laboratory Open House with the Friends of Stone Laboratory and the Lake Erie Commission. Over 800 people attended the all day event. The program was repeated in September 2002 with over 650 in attendance.
- In September 2002 we hosted the Annual Meeting of the International Association of Amusement Parks and Attractions at Stone Laboratory.

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. This year Felix Martinez a Ph.D. candidate in The Ohio State University department of Evolution, Ecology and Organismal Biology was selected as a Knauss Fellow. He will begin his year in Washington on 1 February 2003.

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. 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 Board of Oceans and Atmospheres of NASULGC. In October 2001 he was elected President-Elect of the National Association of Marine Laboratories. In October 2001 he began a one-year term as chair of the Grant-Making Committee of the Great Lakes Protection Fund. In August 2002 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.

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 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.

Program Plans

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

- 1) Raise funds to complete the renovation of Cooke's Castle.
- 2) Raise funds to further renovate the Stone Laboratory Research Building.
- 3) Raise funds to construct new faculty/research housing at Stone Laboratory.
- 4) Raise funds for research and scholarship endowments.
- 5) Improve the Sea Grant Reporting system in preparation for the 2005 Program Assessment Team Visit and revise the Strategic Plan to follow the pattern of the NOAA Strategic Plan.
- 6) Continue to lead efforts with GLERL to develop a Great Lakes Observation and Forecasting System as part of IOOS and GOOS including placement of a series of monitoring buoys around all of the Great Lakes.
- 7) Finalize plans for an artificial reef in the Western Basin of Lake Erie.
- 8) Develop markets and products from Sea Grant biotechnology, aquaculture and underwater welding research.
- 9) Continue to lead efforts to address the Lake Erie Dead Zone and the Lake Erie at the Millennium Network.
- 10) Complete plans and preliminary renovations of the Stone Laboratory Research Building.

The Future

While Lake Erie is clearly better than it was 30 years ago when the Cuyahoga River burned, it is not clean enough. In the past two years Ohio Sea Grant has lead efforts to understand the causes for the Lake Erie Dead Zone. 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)—2001 & 2002

Federal Sea Grant Funding

\$968,200	Omnibus 1 March 2001 (Grant No. NA86RG0053)
76,000	Knauss Fellows—Batish and Haltuch
38,000	Great Lakes Commission/Sea Grant Fellowship—Moore
50,000	Coastal Communities Initiative
15,000	One-Time ANS Report Assistance
16,000	Inflationary Adjustment
<u>34,969</u>	Two ANS Projects—Year 1 of 2—Fortner and Snyder
\$1,198,169	Subtotal 2001
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
<u>21,762</u>	US EPA—Distance learning from Stone Laboratory
\$1,602,251	Subtotal 2002
\$2,800,420	Total Federal 2001-02

Matching Support from Universities

\$ 589,201	2001 Sea Grant Omnibus
<u>19,968</u>	Two ANS Projects—Year 1 of 2—Fortner and Snyder
\$ 609,169	Subtotal 2001
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
<u>10,000</u>	LEPF—Millennium Report
\$ 837,164	Subtotal 2002
\$1,446,333	Total University Match 2001-02

State Line Item (1 July 2001 to 30 June 2003)

FY 02 281,940
FY 03 281,940
Total \$563,880

Ohio State University Support (Operating Budgets)

	<u>FY02</u>	<u>FY03</u>	<u>2-Year Total</u>
Sea Grant/CLEAR	\$154,482	\$163,403	\$317,885
Stone Laboratory	<u>264,628</u>	<u>265,980</u>	<u>530,608</u>
Total	\$419,110	\$429,383	\$848,493

Private Sector Contributions

\$25,000	Approximate total for our Legislative Leadership Institute on 9 June 2001 and the first Put-in-Bay Legislative Day on 19-20 July 2001
25,000	Approximate total for our 14 th State Legislature Day, 19 July 2002
10,000	Approximate value of booth space at boat shows and sport shows
2,100	Steelhead Trout Surveys (several clubs and parks)
500	Private donation to State Legislature/Congressional Day
822	Sandusky-Erie County Community Foundation—Legislator's Ed. Fund
<u>531</u>	Sandusky-Erie County Community Foundation—Education and Res. Fund
\$63,953	Total

Endowments

The market value of some of our endowments has suffered since reaching a high in August 2000. However, donations have been stronger than ever and two new endowments were created in 2002 and the total for deferred gifts to create endowments now exceeds \$3 million. The newly created endowments are The John L. Crites Research Fellowship at Stone Laboratory and The Franz T. Stone Laboratory Research Endowment 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 that will result in payments of approximately \$1 million to the endowment over the 30-year loan.

Capital Improvements and Equipment

\$ 500,000	State Legislature renovation Cooke Castle, 1999—Exterior completed 2001 (new porches and masonry repairs)
585,000	Renovation of space for main office in Columbus—1999—Completed and moved in May 2001
2,300,000	New sewer and water system for Stone Laboratory—Committed 2001, planning completed in 2002, construction planned for 2004
<u>348,000</u>	Equipment and Facilities Improvements for Stone Laboratory—Senator DeWine and NOAA—Funding arrived 2002
\$3,733,000	Total 2001-02

Scholarships at Stone Laboratory

\$13,005	32 Scholarships in 2001
<u>17,736</u>	49 Scholarships in 2002
\$30,741	Total 2001-02

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 2001-2002

**Table B-2: Home Institutions of College-Level Students
1986 - 2002**

**Table B-3: Home Institutions of Concurrent Enrollment
(High School Students) 1990 - 2002**

APPENDIX B

TABLE B-1 INSTITUTIONS INVOLVED—2001- 2002

Institutions are involved with the Ohio Sea Grant College Program in many different 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
Case Western Research University
Cleveland State University
Heidelberg College
Kent State University
Miami University
Ohio State University
Ohio Division of Geological Survey
Penn State University
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—2001-2002

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

Conducting Research at our Lake Erie Laboratory, Stone Laboratory--2002

Bowling Green State University
Cornell University
Heidelberg College
Miami University
Mount Union College
Northern Illinois University
Ohio EPA
Ohio State University
Penn State University
University of Georgia
University of Nebraska
USDA
Wittenberg University
Wright State University

TABLE B-2: Home Institutions of College-Level Students 1986-2002

YEAR	85	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02
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	21.1
InSTATE																	
Ashland Univ																	
Baldwin-Wallace College		2															
Bluffton College																	
*Bowling Green State Univ		2	1		2	1	2	3	2	2	4	1	3	6	4	13	3
Capital Univ																	
Case Western Reserve Univ				1													
Cedarville College																	
*Cincinnati State Tech&Comm Coll																	
*Cleveland State Univ		2	1	1			2	2					1	1			
College of Mount St. Joseph													1	2	1		
College of Wooster	1																
Columbus Coll Art & Design																	
*Columbus State Comm College																	
*Cuyahoga Community Coll						2	3	1	3		1				2		1
Defiance College																	
Denison University																	
Heidelberg College		2															
*Hocking Tech College	1																
John Carroll Univ																	
*Kent State Univ		1				1	2	1									
Lake Erie College		2			2	3	3		1	1		1	4		2		4
*Lakeland Community College																	
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																	
Oberlin College						1	1										
Ohio Northern Univ																	
*Ohio State University	33	51	49	58	74	77	89	122	107	101	110	114	113	125	89	109	2101
Ohio University		1	1	1	1	1	4	2	2	3			1		2	1	1
Ohio Wesleyan Univ																	
Otterbein College		1															
*Univ of Akron																	
*Univ of Cincinnati	1																
Univ of Dayton																	
*Univ of Findlay																	
*Univ of Toledo		2				1	5		2	1			2	2	3	1	1
Urbana Univ																	
Ursuline College																	
Wilmington College																	
Wittenberg Univ	1																
*Wright State Univ						1		1	1	1		1	2		1	1	
Xavier University								4	3	1	1	1	3	2	3	1	1
*Youngstown State Univ	2		1		1	2	2	2	1								

Superscript = number of workshop participants included in total
 * = state-assisted institution of Ohio

TABLE B-2: Home Institutions of College-Level Students 1986-2002

Continued

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

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2002

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02
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	-	-	-	-
Col Crawford HS, North Robinson	-	-	-	-	1	-	-	-	-	-	-	-	-
Columbian HS, Tiffin	-	-	-	1	1	-	-	-	-	-	-	-	-
Columbiana HS, Columbiana	-	-	-	1	-	-	-	-	-	-	-	-	-
Columbus Academy, Gahanna	-	-	-	-	-	-	-	1	-	-	1	-	1
Columbus Alternative HS, Columbus	-	-	1	2	-	1	9	2	1	-	1	-	-
Columbus Grove HS, Columbus Grove	-	-	-	-	-	-	-	1	-	-	-	-	-
Columbus School for Girls, Columbus	-	1	-	-	-	-	1	-	-	-	-	-	-
Copley HS, Copley	-	-	-	1	-	-	-	-	-	-	-	-	-
Coshocton HS, Coshocton	-	-	-	-	-	-	-	-	-	-	-	-	-
Crestview HS, Columbiana	-	-	-	-	-	-	-	-	-	1	-	-	-
Crestwood HS, Mantua	-	-	-	-	-	-	-	-	2	1	-	-	-
Crooksville HS, Crooksville	-	-	1	-	1	1	1	-	-	-	-	-	1
Danbury HS, Lakeside	-	-	-	-	-	-	-	-	-	-	-	-	-
Dayton Christian HS, Dayton	-	-	-	-	-	-	-	-	-	-	-	-	1
Defiance HS, Defiance	-	-	-	-	-	-	-	1	-	-	-	-	1
Dublin Coffman HS, Dublin	-	-	1	-	1	-	-	-	-	-	1	-	-
Dublin Scioto HS, Dublin	-	-	-	-	-	-	-	-	-	-	1	-	-
East HS, Columbus	-	-	-	-	3	1	3	1	1	-	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, Millford Center	-	-	-	-	1	-	-	-	-	-	-	-	-
Fairfield Union HS, Lancaster	-	-	1	-	-	-	-	-	-	-	-	-	-
Fairland HS, Proctorville	-	-	-	2	-	1	1	-	-	-	-	-	-
Fairview HS, Fairview Park	-	1	-	-	-	1	-	2	1	-	-	-	-
Fayetteville HS, Fayetteville	-	-	-	-	-	-	-	-	-	-	1	2	1
Federal Hocking HS, Stewart	-	-	1	-	1	-	-	-	1	-	-	-	-
Findlay HS, Findlay	-	-	-	-	-	-	-	1	-	-	-	-	-
Finneytown HS, Cincinnati	-	-	-	-	-	-	-	-	-	-	1	-	-
Firelands HS, Oberlin	-	2	1	-	-	1	-	-	-	-	-	-	-

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2002

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02
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
Fort Jennings HS, Fort Jennings	-	-	-	-	-	-	-	-	-	-	-	-	-
Franklin Heights HS, Columbus	-	-	-	1	1	-	-	-	-	2	-	-	-
Fremont Ross HS, Fremont	-	1	-	-	-	1	-	-	-	-	-	-	-
Galion HS, Galion	-	-	-	-	-	1	-	1	-	-	-	-	-
Gallia Academy HS, Gallipolis	-	-	-	-	-	1	1	-	-	-	-	-	-
Geneva Area HS, Geneva	1	3	-	-	-	-	-	-	1	2	2	1	-
Genoa Area HS, Genoa	-	-	2	1	-	-	-	-	-	-	-	-	-
Georgetown HS,	-	-	1	-	-	-	-	-	-	-	-	-	-
Gibsonburg HS, Gibsonburg	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-	-
Greenville HS, Greenville	-	1	-	-	-	-	-	-	-	-	-	-	1
Grove City HS, Grove City	-	-	-	-	-	-	-	-	-	-	-	-	-
Hamilton HS, Hamilton	-	-	-	-	-	-	1	1	-	-	-	-	-
Hawken HS, Gates Mills	-	1	-	-	-	-	1	-	-	1	-	-	-
Highland HS, Medina	-	-	-	-	-	-	-	-	-	-	-	-	-
Hilliard Darby HS, Hilliard	-	-	-	-	-	-	-	-	-	-	-	-	-
Hilliard Davidson HS beg '97 (Hilliard HS prior)	-	-	-	-	-	1	-	-	-	1	4	-	1
Hillsboro HS, Hillsboro	-	1	-	-	-	-	-	-	-	1	2	-	-
Holy Name HS, Parma Heights	-	-	-	-	-	-	-	-	-	-	-	-	-
Hudson HS, Hudson	-	-	-	-	-	-	-	1	-	-	-	-	-
Hughes Center HS, Cincinnati	-	-	-	-	-	-	1	-	-	-	-	-	-
Huron HS, Huron	-	-	-	-	-	-	-	1	-	-	-	-	-
Indian Hill HS, Cincinnati	-	-	1	1	-	2	-	-	-	-	-	-	-
Indian Valley HS, Gnadenhutten	1	-	2	-	-	-	-	-	-	-	-	-	-
Ironton HS, Ironton	-	1	-	-	-	-	-	-	-	-	-	-	-
J A Garfield HS, Garrettsville	-	-	1	-	-	-	-	-	-	-	-	-	-
James Ford Rhodes HS, Cleveland	-	-	-	-	-	-	-	-	-	-	-	-	-
Jewett-Scio Jr-Sr HS, Scio	-	-	-	-	-	-	-	-	1	-	-	-	-
John Glenn HS, New Concord	-	-	-	-	-	-	-	1	-	-	-	-	-
John Marshall HS, Cleveland	-	-	-	-	-	-	-	2	-	2	1	-	-
Kenton HS, Kenton	-	1	-	1	-	-	-	-	-	-	-	-	-
Kettering Fairmont HS, Kettering	-	-	-	-	1	-	-	-	-	-	-	-	-
Lake Braccock Secondary Sch, Burke VA	-	-	-	-	-	-	-	1	-	-	-	-	-

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2002

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02
Lake Ridge Academy HS, North Ridgeville	-	-	-	1	-	1	1	-	-	-	-	-	-
•Lakeshore HS, Stevensville MI	-	-	1	-	-	-	-	-	-	-	-	-	-
Lakewood HS, Lakewood	-	-	-	-	-	-	-	-	1	1	1	-	1
Lakota HS, Kansas	1	-	-	-	-	-	-	-	-	-	-	-	-
Ledgement HS, Thompson	-	-	-	-	-	-	-	-	-	-	1	-	-
Lehman HS, Sidney	-	-	-	-	-	-	-	-	-	-	-	-	-
Leipsic HS, Leipsic	-	-	-	-	-	-	-	1	-	-	-	-	-
Lexington HS, Lexington	-	-	-	-	1	-	-	1	-	-	1	-	-
Liberty Union HS, Baltimore	-	-	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	-	1
London HS, London	-	-	-	-	2	-	-	-	-	2	-	-	-
Lorain Catholic HS, Lorain	-	-	-	1	-	-	-	-	-	-	-	-	-
Lordstown HS, Warren	-	-	1	-	-	-	-	-	-	-	-	-	-
Loudonville HS, Loudonville	-	-	-	-	-	-	-	1	1	-	-	-	-
Louisville HS, Louisville	-	-	-	1	-	-	-	-	-	-	-	-	-
Loveland HS, Loveland	-	-	-	-	-	-	-	-	-	-	-	-	1
Lucas HS, Lucas	-	1	-	-	-	-	-	-	-	-	-	-	-
Lynchburg-Clay HS, Lynchburg	-	-	-	-	-	-	-	-	-	-	-	-	1
Madeira HS, Cincinnati	-	-	-	-	1	-	-	-	-	-	-	-	1
Madison HS, Madison	-	-	-	1	-	-	-	-	-	-	-	-	-
Madison HS, Mansfield	-	-	-	-	-	-	-	-	-	-	1	-	-
Magnificat HS, Rocky River	-	2	5	-	-	-	1	-	-	-	1	-	1
Mansfield HS, Mansfield	-	-	2	-	2	-	-	-	2	-	1	-	1
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	-	-	-	-	-	-	-	2	1	2	1	3	-
Marlington HS, Alliance	-	-	-	1	-	-	5	-	-	-	1	-	-
Marysville HS, Marysville	1	-	1	-	-	-	1	-	-	-	-	-	-
Maumee HS, Maumee	-	-	-	-	-	1	-	1	-	-	-	-	-
Maumee Val Country Day HS, Toledo	-	-	-	-	-	-	-	-	-	1	-	-	-
Mayfield HS, Mayfield	-	1	-	-	-	-	-	-	-	1	-	-	-
McAuley HS, Cincinnati	-	-	-	1	1	-	-	-	-	1	-	-	-
Meadowdale HS, Dayton	-	-	-	1	1	-	-	-	-	-	-	1	-
Medina HS, Medina	-	-	-	1	1	-	-	-	-	-	-	-	-
Miami Trace HS, Washington CH	-	-	-	-	-	-	-	1	-	-	1	-	-

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2002

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02
Put-in-Bay HS, Put-in-Bay	-	-	1	-	-	-	1	-	-	-	-	-	1
R.B. Chamberlin HS, Twinsburg	-	-	-	-	-	-	-	-	1	1	-	-	-
Ravenna HS, Ravenna	-	-	-	1	-	-	-	-	-	-	-	-	-
Revere HS, Richfield	-	-	1	-	-	-	-	-	-	-	-	-	-
Reynoldsburg HS, Reynoldsburg	-	-	-	-	-	1	-	-	1	1	-	-	-
Ridgewood HS, West Lafayette	-	-	-	-	-	-	-	-	-	-	1	-	-
Riverside HS, Degraff	1	-	-	-	-	-	-	-	-	-	-	-	-
Rocky River HS, Rocky River	-	-	-	-	-	-	-	-	-	3	2	1	2
Roosevelt HS, Kent	-	-	-	1	-	2	-	-	-	-	-	-	-
Ross HS, Hamilton	-	-	-	-	-	-	-	-	1	-	-	-	-
Rutherford B Hayes HS, Delaware	-	-	-	-	-	-	1	-	-	-	-	-	-
Seneca East HS, Attica	-	-	-	-	-	-	-	-	-	-	-	-	-
Seven Hills School HS, Cincinnati	-	-	-	-	-	-	-	1	-	-	-	-	1
Shelby HS, Shelby	-	-	-	-	-	-	-	-	1	-	-	-	-
Solon HS, Solon	1	-	-	-	-	1	-	1	2	-	-	1	1
South HS, Columbus	-	-	-	-	-	-	-	-	-	-	-	1	1
South Central HS, Greenwich	-	-	-	-	-	-	-	-	-	-	-	1	1
South Point HS, South Point	-	-	1	-	2	-	-	-	-	-	-	1	1
Southern Local Jr-Sr HS, Salineville	-	-	-	-	-	-	-	-	-	1	-	-	-
Springboro HS, Springboro	-	1	-	-	1	-	-	-	-	-	-	-	-
Springfield HS, Akron	-	-	-	1	-	-	-	-	-	-	-	-	-
Springfield North HS, Springfield	-	-	-	1	-	-	-	-	-	-	-	-	-
St Charles Preparatory HS, Columbus	-	-	-	-	-	-	-	-	-	1	2	1	-
St Clairsville HS, St Clairsville	-	-	-	-	-	-	1	1	1	1	-	-	-
St Francis De Sales HS, Columbus	-	-	-	-	1	-	-	-	1	1	-	-	-
St Ignatius HS, Cleveland	-	1	2	-	-	-	-	-	-	-	1	-	1
St John's Jesuit HS, Toledo	-	-	-	-	-	-	-	-	-	-	-	2	1
St Joseph Academy HS, Cleveland	-	-	2	-	-	-	-	-	1	-	-	-	-
St Joseph Central HS, Ironton	-	-	-	-	-	1	-	-	1	-	-	-	-
St Joseph HS, Fremont	-	-	-	-	-	-	-	1	1	-	-	-	-
St Thomas Aquinas HS, Louisville	-	-	-	-	-	-	-	-	-	1	-	1	-
St Ursula Academy, Toledo	-	-	1	-	-	-	-	-	-	-	-	-	-
Start HS, Toledo	-	-	-	-	-	-	-	-	-	-	-	-	-
Stebbins HS, Dayton	-	-	-	-	-	-	-	-	-	-	-	1	-
Streetsboro HS, Streetsboro	-	1	-	-	-	-	-	-	-	-	-	-	-
Strongsville HS, Strongsville	1	-	-	1	2	-	-	-	-	-	-	-	-
Swanton HS, Swanton	-	-	1	-	-	-	-	-	-	-	-	-	-
Sylvania Northview HS, Sylvania	-	-	-	-	-	1	-	-	-	-	-	-	-
Sylvania Southview HS, Sylvania	-	-	-	-	-	-	-	-	-	-	1	-	-
Taft HS, Cincinnati	-	-	-	-	-	-	-	-	-	-	-	-	-
Talawanda HS, Oxford	-	-	-	-	-	-	-	1	-	-	-	-	-
Tallmadge HS, Tallmadge	-	-	-	-	1	-	-	-	-	-	-	-	-
Thomas Worthington HS, Worthington	-	-	-	-	-	-	2	-	-	-	1	-	1

TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2002

YEAR	90	91	92	93	94	95	96	97	98	99	00	01	02
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
Cumulative # of All High Schools	19	61	101	140	163	179	198	224	248	262	278	289	302
Cumulative # of Out-of-State Schools	-	-	2	3	5	-	6	7	-	8	-	9	-

• = Out-of-State

APPENDIX C

Projects Supported

Table C-1: Ohio Sea Grant College Program Funded Projects 2000 - 2002

Table C-2: Ohio Sea Grant College Program Funded Projects 2002 – 2004

Table C-3: Development Fund Projects 2001 – 2002

Table C-4: Education Projects and Accomplishments 2002

Publications from Projects
(27 in 2001; 32 in 2002)

Presentations from Projects
(76 in 2001; 78 in 2002)

APPENDIX C

TABLE C-1

OHIO SEA GRANT COLLEGE PROGRAM RESEARCH PROJECTS 2000 – 2002

(Beginning 1 March 2000 unless otherwise noted)
(Random Order)

1. **R/NIS-3. Benthic-Pelagic Coupling: Community Responses to Round Goby Predation on Zebra Mussels** (to be completed with Development Fund dollars from the current award, i.e. 99-00)

- Jeffrey Miner, Bowling Green State University

Year 3: \$ = 22,900; M = 33,862

2. **R/LR-4. Genetic Characterization of Walleye Stocks Based on Mitochondrial and Nuclear DNA**

- Carol Stepien, Case Western Reserve University

Year 3: \$ = 45,628; M = 23,553

3. **R/OE-15. Development of a Robust Underwater Welding Process Using the "Smart Shroud" System for Permanent Offshore Structure Repairs**

- Chon L. Tsai, The Ohio State University

Year 1: \$ = 49,995; M = 28,460

Year 2: \$ = 49,998; M = 28,784

4. **R/LR-5. Genetic Structure of Smallmouth Bass Populations from Nuclear and Mitochondrial DNA Sequences** (to begin 1 March 2001)

- Carol A. Stepien, Case Western Reserve University

Year 1: \$ = 48,409; M = 24,472

Year 2: \$ = 49,245; M = 25,452

Year 3: \$ = 49,349; M = 26,469

5. R/NIS-7. Effects of Round Goby on Yellow Perch-Amphipod Interactions Within Zebra Mussel Colonies and Macrophyte Beds

- Maria J. Gonzalez, Wright State University

Year 1: \$ = 43,391; M = 22,132

Year 2: \$ = 47,579; M = 27,220

Year 3: \$ = 25,873; M = 16,666

6. R/BT-6. Heavy Metal Bioremediation Using Genetically Altered Biomass

- Richard Sayre, The Ohio State University

Year 1: \$ = 49,427; M = 38,851

Year 2: \$ = 48,958; M = 39,927

Year 3: \$ = 50,058; M = 41,013

7. R/PS-25. Advancing Tissue Residue-Based Risk Assessment: Field and Laboratory Tests of the Critical Body Residue Hypothesis

- Susan W. Fisher, The Ohio State University

Year 1: \$ = 47,821; M = 42,425

Year 2: \$ = 49,154; M = 33,974

8. R/ME-24. A Comparison of Recreation and Amenity Values in the Lake Erie Basin (to begin 1 March 2001 unless additional funding is received earlier)

- Brent Sohngen, The Ohio State University

Year 1: \$ = 39,694; M = 22,728

Year 2: \$ = 43,299; M = 24,559

9. R/ER-55. Modeling Smallmouth Bass Consumption of Round Goby in Lake Erie: Implications for Predator Growth and Contaminant Transfer

- Roy A. Stein, The Ohio State University

Year 1: \$ = 47,918; M = 28,485

Year 2: \$ = 47,976; M = 28,791

Year 3: \$ = 48,446; M = 27,677

10. R/CE-5. Monitoring Lake Level Changes Using Satellite Altimetry and GPS-Buoys

- C.K. Shum, The Ohio State University

Year 1: \$ = 49,987; M = 24,993

Year 2: \$ = 51,985; M = 25,993

Year 3: \$ = 54,064; M = 27,033

11. R/PS-26. Sonochemical Desorption of Mercury Laden Sediments

- Linda K. Weavers, The Ohio State University

Year 1: \$ = 49,745; M = 25,374

Year 2: \$ = 49,087; M = 25,078

Year 3: \$ = 49,539; M = 26,082

12. R/ME-25. Understanding the Links Between Policy and Patterns of Land Use Change in Urbanizing Watersheds: A Spatial Economic Model of Land Use Conversion

- Elena Irwin, The Ohio State University

Year 1: \$ = 35,446; M = 18,108

Year 2: \$ = 28,758; M = 14,959

13. R/CE-6. A Computational Fluid Dynamics Model for Wave Transformation and Breaking in the Surf Zone

- Thomas Lippmann, The Ohio State University

18 months: \$ = 99,747; M = 56,368

APPENDIX C

TABLE C-2

OHIO SEA GRANT COLLEGE PROGRAM FUNDED PROJECTS

1 March 2002- 29 February 2004

I. Economic Leadership

A. Advanced Technology for Commercial Products and Processes

1. Commercial Biotechnology

R/BT-6, **Continuing**, Heavy Metal Bioremediation Using Genetically Altered Biomass

Richard Sayre, Ohio State University

2. Environmental Technology

R/PS-31, **Continuing**, Advanced Treatment Process for the Removal of Cyanobacterial Toxins from Drinking Water

Harold Walker, Ohio State University

B. Seafood Production

1. Commercial Fisheries

R/LR-5, **Continuing**, Genetic Structure of Smallmouth Bass Populations from Nuclear and Mitochondrial DNA Sequences

Carol A. Stepien, Cleveland State University

2. Sustainable Aquaculture

R/BT-7, **Continuing**, A Combinatorial Approach to Vaccine Development for Fish

Richard Sayre, Ohio State University

C. Coastal Economic Development

1. Coastal Business Development

2. Coastal Recreation

R/ME-24, **Continuing**, A Comparison of Recreation and Amenity Values in the Lake Erie Basin

Brent Sohngen, Ohio State University

3. Marine Trades

R/ME-28, Estimating the Spatial and Temporal Benefits of Recreational Boating and Angling in the Lake Erie Basin

Timothy Haab, Ohio State University

II. Coastal Ecosystem Health and Public Safety

A. Coastal Ecosystems Health

1. Coastal Ecosystems

R/PS-28, Role of Detritivores in PCB Trophodynamics in the Western Basin of Lake Erie

Robert H. Findlay, Miami University

R/EM-22, Origin and Fate of the Organic Matter Exchanged Between Coastal Wetlands and the Great Lakes

Virginie Bouchard, Ohio State University

R/ER-60, Importance of the Microbial Food Web in C- Transfers Through the Base of the Food Web in Great Lakes Plankton Communities

Robert T. Heath, Kent State University

R/PS-29, Photodegradation of Agricultural Herbicides in Lake Erie Coastal Wetlands
Yu-Ping Chin, Ohio State University

R/NIS-7, Continuing, Effects of Round Goby on Yellow Perch-Amphipod Interactions Within Zebra Mussel Colonies and Macrophyte Beds

Maria J. Gonzalez, Miami University

R/ER-55, Continuing, Modeling Smallmouth Bass Consumption of Round Goby in Lake Erie: Implications for Predator Growth and Contaminant Transfer

Roy A. Stein, Ohio State University

2. Coastal and Great Lakes Habitats

R/PS-26, Continuing, Sonochemical Desorption of Mercury Laden Sediments

Linda K. Weavers, Ohio State University

R/SP-30, Sonochemical Desorption and Destruction of Contaminant Mixtures from Sediments

Linda K. Weavers, Ohio State University

3. Sustainable Development

R/EM-23, Developing a Spatial Watershed Model to Predict the Effects of Watershed Policies on Coastal Water Quality and Habitat Change

Jay F. Martin, Ohio State University

B. Public Safety

1. Coastal Hazards

R/CE-5, Continuing, Monitoring Lake Level Changes Using Satellite Altimetry and GPS-Buoys

C. K. Shum, Ohio State University

R/ES-7, Examining the Effects of Lake Water Level Variations on Sediment Resuspension

Diane L. Foster, Ohio State University

III. Education and Human Resources

A. Technically Trained Workforce

B. Environmental & Scientifically Informed Citizenry

1. Pre-College Education

E/TER-2, Expanding Delivery Modes for Education about Great Lakes Systems

Rosanne W. Fortner, Ohio State University

2. Informal Education

A/EP-1, Ohio Sea Grant Extension Program

Frank Lichtkoppler, Fred Snyder, and John Rohrer, Ohio State University

A/EP-4, Ohio Sea Grant Extension Program: Community Economic Development

Frank Lichtkoppler and Jeffrey M. Reutter, Ohio State University

C. Communications

M/P-2, Ohio Sea Grant Communications Program

Karen T. Ricker, Ohio State University

IV. Program Management

A. Program Administration

M/P-1, Ohio Sea Grant Program Management

Jeffrey M. Reutter, Ohio State University

B. Program Development

M/D-1, Ohio Sea Grant Program Development

Jeffrey M. Reutter, Ohio State University

APPENDIX C

TABLE C-3

Development Fund Projects 1-1-2001 to 12-31-2002

Project Number	Project Title	Initiation Date	Principal Investigator
A/AS-11-PD		2/1/2001	Donald McFeeters
	Aquaculture Health Issues Seminar and Panel Discussion		
R/ME-27-PD		4/1/2001	Leroy Hushak
	The Economic Importance of Nature-Based Tourism in Ohio's Lake Erie Tourism Industry: The Case of Ottawa and Erie Counties		
R/LR-6-PD		12/1/2001	John Farver
	Evaluation of Employing Trace Element Contents of Otoliths as a Natural Tag Using Lake Erie White Bass (<i>Morone chrysops</i>)		
R/EM-24-PD		1/1/2002	Daniel Oerther
	Preliminary Evaluation of a New Technique for Linking Picoplankton Community Structure with Function in Aquatic Environments		
R/PS-32-PD		1/1/2002	George Bullerjahn
	Molecular Assessment of the Potential for in situ PCB Bioremediation		
E/MP-3-PD		4/1/2002	Karen Ricker
	Lake Erie Shipwreck Diver Slates		
R/ER-64-PD		5/1/2002	Richard King
	Movement Patterns and Hibernation Sites of the Lake Erie water snake		
R/A-16-PD		5/1/2002	David Apsley
	Freshwater Shrimp Production in Southern Ohio		
R/ER-62-PD		5/1/2002	David Culver
	Great Lakes Limnology: Interactions among physics, chemistry, and biology in a large lake		
R/ME-29-PD		5/1/2002	Philip Xie
	Developing Industrial Heritage: A Case Study in Toledo and Waterville		
R/ER-61-PD		6/1/2002	Roy Stein
	Trophic transfer of heavy metals to top predators: Quantifying the role of non-native species		
R/ER-63-PD		9/1/2002	Craig Davis
	Wetland Renovation in East Harbor State Park, Lakeside-Marblehead, OH: Water Control		
R/CE-9-PD		10/1/2002	C. Shum
	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		

APPENDIX C

TABLE C-4

EDUCATION PROJECTS AND ACCOMPLISHMENTS – 2002

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
- Digital and field technologies for coastal environmental studies.
Sponsor: NSF Division of Undergraduate Education: Course, Curriculum & Lab Improvement; \$74,955, 04/15/2001-03/31/2004
- Development and assessment of environmental literacy.
Sponsor: OARDC, Hatch funds. \$1500/year. Final year of 5.

2. Products:

Ohio Sea Grant's *The Great Lake Erie* was a required text in two summer courses at Stone Laboratory: Digital and Field Techniques for Coastal Environment Studies, and Curriculum Development for Environmental Decision Making.

Dr. Garry MacKenzie, Geological Sciences at OSU, uses several ES-EAGLS individual activities with our permission in his course packet for Geology 100: Earth Systems I.

Internet development continued on two projects:

- Exotic Aquatics on the Move [<http://www.iisgcp.org/EXOTICSP/>]. Five new species were added to the information database for learners and teachers. The site was reorganized to emphasize the outreach content rather than internal project material as before.
- Alien Invaders: Teaching and Learning about Exotic Species [<http://earthsys.ag.ohio-state.edu/Alien/>] is the basis of an on-line course to be offered in Autumn 2003 for CEUs or workshop credit. It resides on the SNR server for easier access in development and course facilitation.

3. Graduate Education Projects:

Elizabeth Simmons, MS 2002. Teachers' perceptions of global climate change: A descriptive study using concept maps [used course products from Stone Lab 1995-2001]

Lisa Bircher, MS, 2002. Teachers' perceptions of the value of Stone Lab courses in their teaching.

Sara White, MS, 2002. Effect of participation in Stone Lab summer courses on high school students' environmental attitudes.

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

Course projects for NR 810 [Case Studies and Evaluation of Environmental Communication]:

- Middle school students' perceptions of science after participation in Stone Lab workshops
- High school teachers' uses of Stone Lab training and networking opportunities
- Focus group: Central Ohio teachers' views on needs and benefits of Stone Lab workshops for their students.

4. Publications

Fortner, R.W. and J.R. Corney, 2002. Great Lakes educational needs assessment: Teachers' priorities for topics, material and training. *Journal of Great Lakes Research*. 28(1): 3-14.

Fortner, R.W., J.R. Corney, and V.J. Mayer, in press. Student achievement as an outcome of inservice education using Standards-based infusion materials. NAAEE Monograph [research based on combined data from Eisenhower, Ohio Sea Grant, and Great Lakes Protection Fund projects]

Fortner, R.W. 2002. Cooperative Learning: A Basic Instructional methodology for Global Science Literacy. Chapter 6 in Mayer, V.J. (ed.), *Global Science Literacy*, Netherlands: Kluwer Pub, pp79-92.

Lee, H. and R.W. Fortner. 2001. Resources for teaching and learning about exotic species. ERIC Digest EDO-SE-0106.

Fortner, R.W. Aquatic resource education in school: Right tools for the job? Submitted to *Fisheries*.

Fortner, R.W. 2002. Voices for the Watershed (book review). *Journal of Environmental Education* 33(2): 40-41.

Dudley, J.E. & R.W. Fortner, 2002. Effect of participation in experiential EE programs on student attitude toward science. 2002 *Interpretive Sourcebook*, NAI, pp 89-90.

Fortner, R.W., C.J. Merry, Shuie-Shian Lin, H. Duan, 2002. Field study course for the people and tools of environment and engineering. *NAAEE Proceedings*. (CD-ROM)

5. Regional representation

A. For the BRIDGE, a cooperative internet project for marine and aquatic education sponsored by the National Marine Educators Association (NMEA) and the National Ocean Partnership Program (NOPP), Rosanne Fortner is the Great Lakes coordinator of BRIDGE materials. Presentations of BRIDGE resources were introduced to teachers/students in the following courses:

- (Nat Res 691) 12 junior and senior college students in an Internet Skills workshop for environmental education. One hour session in computer lab.
- Sixteen teachers taking Nat Res 814, Earth Systems Education, used the BRIDGE resources during labs accompanying lessons on coral reefs, El Niño, and plate tectonics (3 hours total).
- Demonstration for new MS students in all fields of natural resources, as part of an interactive "get-to-know-what-OSU-does" session (display and handouts).
- Graduate and undergrad students in computer lab for a course sponsored by NSF: Digital and Field Techniques for Coastal Environment Studies.
- Demonstration in graduate course for 12 upper elementary teachers in Cyprus: EDU 664: Integrating the Natural Sciences.
- One-hour computer lab workshop at the University of Cyprus for 11 primary teachers in EDU 665: Environmental Education.

B. For NSF's Digital Library for Earth Systems Education (DLESE), Rosanne Fortner serves as a contributor of materials to the K-12 section on water.

Publications from Projects
(27 in 2001; 32 in 2002)

Publications from Ohio Sea Grant Projects Published in 2001

Proj. Number	Initiation Date	Completion Date	Presentation
<u>A/EP-1</u>	9/1/1978	2/28/2006	Lichtkoppler, F.R. and Hushak, L. 2001. Environmental Awareness and Attitudes Ashtabula County Voters Concerning the Ashtabula River Area of Concern: 1996-1997. <i>Journal of Great Lakes Research</i> . 25 (3): 500-514.
<u>E/E-1</u>	9/1/1996	8/31/1998	Fortner, R.W. & Corney, J.R. 2001. Great Lakes educational needs assessment: Teachers' priorities for topics, material & training. Accepted by the <i>Journal of Great Lakes Research</i> . Fortner, R.W., Corney, J.R. & Mayer, V.J. 2001. Student achievement as an outcome of inservice education using Standards-based infusion materials. <i>Science Education</i> (in review).
<u>E/NIS-1</u>	9/1/1997	8/31/1999	ESCAPE Compendium of Classroom Activities. 2001. Great Lakes Education Network. IL-IN Sea Grant Publications: Purdue University. 40 activities in folder.
<u>E/NIS-2</u>	10/1/1999	9/30/2001	Goettel, R., et al. 2001. Exotic Species Compendium of Activities for Participation and Education (ESCAPE). Purdue University/IL-IN Sea Grant.
<u>E/TER-1</u>	3/1/1998	2/28/2000	Fortner, R.W. 2001. The right tools for the job: How can aquatic resource education succeed in the classroom? In: Fedler, A.J. (ed), <i>Defining best practices in boating, fishing, and stewardship education</i> . Alexandria, VA: Recreational Boating & Fishing Fndn, pp 49-60. Fortner, R.W., Zint, M. and Lee, J-Y, 2001. <i>Public knowledge and attitudes about Great Lakes fisheries and environment: A review of research</i> . East Lansing: Great Lakes Fisheries Trust. 93 pp.
<u>R/A-15-PD</u>	5/1/2000	4/30/2001	Babiak I., Dabrowski K. 2001. Chilled storage of rainbow trout gametes and fertilized eggs for embryonic cell transplantation purposes. <i>Journal of Fish Biology</i> (to be submitted).

R/CE-5

3/1/2000 2/28/2003

Urban, T., T. Pekker, B. Tapley, G. Kruizinga, and C. Shum. 2001. A multiyear comparison of wet troposphere corrections from TOPEX/Poseidon, ERS-1 and ERS-2 microwave radiometers and the European Centre for Medium-range Weather Forecasts model. *J. Geophys. Res.*, 106(C9), 19657-19669, September 15.

Cheng, K., C. Shum, S. Han, Y. Yi, and D. Martin 2001. Application of GPS-buoy water level instrument for radar altimeter calibration. IAG Symposium Series, 123, M. Sideris (eds), 367-372, Springer-Verlage Berlin Heidelberg.

Grejner-Brzezinska D., J. Kwon, and C. Shum. 2001. The Ohio State University IGS LEO/GPS Pilot Project: Status and Future Plans. *Navigation*, Vol. 49, No. 3, pp. 11-19.

R/ER-39

3/1/1997 4/30/2001

Whyte, R. and D. Francko. 2001. Dynamics of a Pioneer Population of Eurasian Watermilfoil (*Myriophyllum spicatum*). *Aquat. Plant Manage.* 39:136-139.

R/ER-46-PD

3/1/1997 8/31/1999

Whyte, R. and D. Francko. 2001. Dynamics of a Pioneer Population of Eurasian Watermilfoil (*Myriophyllum spicatum*) in a Shallow Lake Erie Wetland. *J. Aquat. Plant Manage.* 39:136-139.

R/ME-18-PD

4/1/1994 3/31/1996

Lichtkoppler, F.R. and Hushak, L. 2001. Ohio's 1998 Lake Erie Charter Fishing Industry. *Fisheries* 26(1)15-22.

R/ME-19

3/1/1998 2/28/2000

Murray, C., B. Sohngen, and L. Pendleton. 2001. Valuing Water Quality Advisories and Beach Amenities in the Great Lakes. *Water Resources Research.* 37(10) 2583 - 2590.

R/ME-25

3/1/2000 2/28/2002

Carrion, Carmen and Elena Irwin. 2001. Understanding the Spatial Pattern of Urban Sprawl in Medina County, Ohio. *Twinline*, May/June.

R/NIS-4-PD

5/1/1997 7/1/2000

Dillon, A.K. and C.A. Stepien. 2001. Genetic and biogeographic relationships of the invasive round (Neogobius melanostomus) and tubenose (Proterorhinus marmoratus) gobies in the Great Lakes versus Eurasian populations. *Journal of Great Lakes Research.* 27(3):267-280.

R/NIS-6-PD 3/1/1999 12/31/1999

Stepien, C.A., B. Morton, K.A. Dabrowska, R.A. Guarnera, T. Radja, and B. Radja. 2001. Genetic diversity and evolutionary relationships of the troglodytic "living fossil" *Congeria kusceri* (Bivalvia: Dreissenidae). *Molecular Ecology* 10:1873-1879.

Stepien, C.A. 2001. Research Review: The Origin of the Great Lakes Zebra Mussels (article by Jill E. Jentes, Ohio Sea Grant Communications). Twine Line Article, Ohio Sea Grant, July-August, p. 3.

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

Stepien, C.A., B. Morton, K.A. Dabrowska, R. A. Guarnera, T. Radja, and B. Radja. 2001. Genetic diversity and evolutionary relationships of the troglodytic "living fossil" *Congeria kusceri* (Bivalvia: Dreissenidae). *Molecular Ecology* 10: 1873-1879.

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

Stepien, C.A. and A.K. Dillon. 2001. Glacial refugia, colonization patterns, and nonindigenous population origins of the ruffe *Gymnocephalus cernuus* from mitochondrial and nuclear DNA sequences. *Molecular Ecology*, in review.

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

Li, R., K. Di and R. Ma. 2001. A Comparative Study on Shoreline Mapping Techniques. The 4th International Symposium on Coastal GIS, Halifax, NS, Canada, June 18-20.

Di, K., R. Ma. 2001. Deriving 3-D shorelines from high resolution IKONOS satellite images with rational functions. ASPRS Annual Conference, St. Louis, April 23-27.

Li, R., J.-K. Liu and Y. Felus 2001. Spatial Modeling and Analysis for Shoreline Change Detection and Coastal Erosion Monitoring. *Journal of Marine Geodesy*, Vol.24, No.1, pp.1-12.

R/PS-17 9/1/1996 8/31/1998

Grasman, K.A., and G.A. Fox. 2001. Associations between altered immune function and organochlorine contamination in young Caspian terns (*Sterna caspia*) of the Great Lakes, 1997-99. *Ecotoxicology* 10:101-114.

Grasman, K.A., and Whitacre, L.A. 2001. Effects of 3,3',4,4',5-pentachlorobiphenyl (PCB 126) on thymocyte surface marker expression and immune organ development in chicken embryos. *Journal of Toxicology and Environmental Health* 62:101-116.

R/ZM-9

9/1/1993 12/1/1997

Stepien, Carol A., Brian Morton, Kora A. Dabrowska, Ross A. Guarnera, Tonci Radja, and Biljana Raja. 2001. Genetic diversity and evolutionary relationships of the troglodytic "living fossil" *Congeria kusceri* (Bivalvia: Dreissenidae). *Molecular Ecology*. 10:1873-1879.

Total Number of Publications: 27

Publications from Ohio Sea Grant Projects Published in 2002

Proj. Number Initiation Date Completion Date Presentation

E/MP-3-PD

4/1/2002 9/30/2002

Guides to Lake Erie's historic shipwrecks: The Adventure, W. R. Hanna, and F. H. Prince. 2002. Columbus, OH: Ohio Sea Grant College Program. Publication OHSU-GS-020.

E/TER-1

3/1/1998 2/28/2000

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): 3-14.

R/A-16-PD

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, <http://piketon.osu.edu/aqua>

Tiu, L. and G. Wallat 2002. Freshwater Shrimp Production in Southern Ohio - Frequently Asked Questions. OSU South Centers Publication. <http://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.

Walnut Grove Farms Shrimp. 2002. Portsmouth Community Common, Sept. 4.

R/BT-6

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 *Chlamydomonas reinhardtii*. *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 *Chlamydomonas reinhardtii*: 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* 14:1-11.

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, 967-973.

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/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: 314-328.

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: 314-328.

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* 15:314-328.

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

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, pp.4451-4473, October, 2002.

Li, R., R. Ma, and K. Di. 2002. Digital Tide-coordinated Shoreline. *Marine Geodesy*, Vol. 25, pp. 27-36.

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-32-PD 1/1/2002 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* 15(2): 314-328.

Total Number of Publications: 32

Presentations from Projects
(76 in 2001; 78 in 2002)

Presentations from Ohio Sea Grant Projects Presented in 2001

Proj. Number	Initiation Date	Completion Date	Presentation
<u>A/EP-1</u>	9/1/1978	2/28/2006	<p>Snyder, F.L. 2001. Bioinvasive species effects upon the Lake Erie sport fishery. Coastal Zone 01, National Oceanic and Atmospheric Administration, Cleveland, Ohio.</p> <p>Lichtkoppler, F. 2001. Environmental Dredging and Economics: the Ashtabula River Partnership Example. 44th Conference of the International Association for Great Lakes Research, June 10-14, 2001. Green Bay, Wisconsin.</p> <p>Snyder, F.L. 2001. Preliminary findings of nontarget fish dispersal via live bait shipments. 109th Annual Meeting of The Ohio Academy of Science, Ada, Ohio.</p> <p>Lichtkoppler, F. 2001. Ashtabula River Partnership: A Model for Remedial Action and Mentor Lagoons: Community Stewardship of a Rare Coastal Resource. Coastal Zone 01 Conference. July 15-19, 2001. Cleveland, Ohio.</p>
<u>E/NIS-2</u>	10/1/1999	9/30/2001	<p>Goettel, R., P. Blanchard, and R.W. Fortner 2001. An odyssey of exotic species, Parts I and II. National Marine Educators Association Annual Meeting, Victoria, BC. July 20.</p>
<u>M/P-1</u>	9/1/1978	2/29/2004	<p>Reutter, J.M. 2001. "HB 316: Sport Fishing License Plate Supporting Ohio Sea Grant. House Agriculture and Natural Resources Committee. State House. Columbus, Ohio. 2 October.</p> <p>Reutter, J.M. 2001. Lake Erie: Pollution, the Dead Lake, Recovery, Walleye Capital of the World, and the Future. OSU Microbiology Course. Dr. Olli Tuovinen. 27 November.</p> <p>Reutter, J.M. 2001. Ohio Sea Grant College Program and Stone Laboratory. House Agriculture and Development Subcommittee of the Finance Committee. State House. Columbus, Ohio. 28 February.</p> <p>Reutter, J.M. 2001. Protecting and Restoring the Lake Erie Ecosystem: Ohio's Most Valuable Natural Resource. Testimony on Oil and Gas Drilling in Lake Erie. House Energy and Environment Committee. State House. Columbus, Ohio. 16 May.</p>

Reutter, J.M. 2001. The Changing Lake Erie Ecosystem: Past, Present, and Future. ASA Gray Keynote Lecture. Utica College of Syracuse University. Utica, New York. 19 March.

Reutter, J.M. 2001. The Changing Lake Erie Ecosystem: Past, Present, and Future. Ashland University Environmental Lecture Series. Ashland, Ohio. 22 February.

Reutter, J.M. 2001. University Research, Outreach, and Extension in an Era of Devolution. OSU Conference on Devolution and Policy. University Hilton. Columbus, Ohio. 17 April.

R/A-10

3/1/1998 2/29/2000

Londraville, R.L., and Duvall, C.S. 2001. Fish respond to murine leptin injections by increasing intracellular fat metabolism. Presented at the Annual meeting of the Society for Integrative and Comparative Biology. 1/3/01-1/7/01 Chicago, IL.

R/A-12

3/1/1998 2/28/2000

Dabrowski, K., J. Rinchar, M.A. Garcia-Abiado, and S. Czesny 2001. The first successful weaning of yellow perch *Perca flavescens* larvae in captivity. Book of Abstracts, Aquaculture 2001, January 21-25, 2001, Orlando Florida.

R/BT-6

3/1/2000 2/28/2003

Sayre, R.T. 2001. Applications of genetically engineered algae for agriculture. Department of Microbiology, Oregon State University, July 9.

Sayre, R.T. 2001. Applications of genetically engineered algae for environmental cleanup in Lake Erie. June 21, Stone Lab, Lake Erie.

Sayre, R.T. 2001. Applications of genetically engineered algae for environmental cleanup in Lake Erie. Legislature Day, June 9, Stone Lab, Lake Erie.

Sayre, R.T. 2001. Biological Engineering for Remediation. Lake Erie Millenium Conference. Windsor, Ontario, Canada, March.

Sayre, R.T. 2001. Genetic manipulation of heavy metal tolerance and binding capacity of the green alga, *Chlamydomonas reinhardtii*. Annual Meeting of Am. Phytopathol. Soc., Salt Lake City, UT August 27.

Sayre, R.T. 2001. Heavy metal tolerance in *Chlamydomonas* and its genetic manipulation. Lawrence Bogorad Symposium, Harvard University, July 28.

Sayre, R.T. 2001. Heavy metal tolerance in *Chlamydomonas* and its genetic manipulation. Rennsalsear Polytechnic University, Dept. Biology, September 10.

R/CE-5

3/1/2000 2/28/2003

Cheng, K., C. Shum, Y. Yi, S. Calmant, and D. Martin 2001. Absolute radar altimeter calibration using GPS water level measurements. APSG Sea Level Workshop/GLOSS GE7 Meeting, Univ. of Hawaii, Honolulu, Hawaii, April 23-27.

Zhao, C., C. Shum, Y. Yi, P. Luk, J. Finkelstein, J. Lillibridge, J. McMillan, and M. Rau 2001. GFO radar altimeter data product verifications and ocean circulation studies. IAG Scientific Assembly, Vistas for Geodesy in the New Millennium, Budapest, Hungary, September 2-7.

Ge, S., C. Shum, C. Zhao, S. Gutman, and K. Hocke. 2001. GPS limb-sounding retrieval of water vapor using ground based network and spaceborne data. International Association of Geodesy 2001 Scientific Assembly in Budapest, Hungary, September.

Shum, C., C. Kuo, Y. Yi and C. Zhao. 2001. Long-term global sea level change observed by altimetry and tide gauges. International Association of Geodesy 2001 Scientific Assembly in Budapest, Hungary, September.

Yi, Y., C. Kuo, C. Shum and C. Jekeli. 2001. Long-term Great Lakes water level changes observed by tide gauges and altimetry. International Association of Geodesy 2001 Scientific Assembly in Budapest, Hungary, September

Jekeli, C., and P. Dumrongchai. 2001. On monitoring vertical datums with satellite altimetry and tide gauge data on large lakes. International Association of Geodesy 2001 Scientific Assembly in Budapest, Hungary, September.

Cheng, K., C. Shum, Y. Yi, S. Calmant and D. Martin. 2001. Radar altimeter absolute calibration using GPS water level measurements. International Association of Geodesy 2001 Scientific Assembly in Budapest, Hungary, September.

Shum, C., D. Brzezinska, B. Hazelton, J. Kwon and C. Zhao 2001. The Ohio State University IGS LEO GPS pilot project and associate analysis center. IGS LEO Pilot Project Meeting, GFZ, Potsdam, Germany, February 6-8.

Shum, C., D. Brzezinska, S. Ge, B. Hazelton, Y. Yi, C. Zhao, M. Bevis, K. Hocke, J. Wickert, G. Jeffress, D. Martin, and M. Szabados. 2001. The use of GPS for measuring water vapor and sea level. Fifth Symposium on Integrated Observing Systems, Albuquerque, New Mexico January 15-19.

R/EM-21-PD

8/1/2000 7/31/2001

Fornes, W.L. and G. Matisoff 2001. A model for sediment biogeochemical cycling and internal chemical loading in the Great Lakes. 44th Conf. on Great Lakes Res., Green Bay, WI.

R/ER-39

3/1/1997 4/30/2001

Trexel, D. and D. Francko. 2001. Changes in plant community composition as a result of reduced water levels at Old Woman Creek NERR, Huron, OH. International Association of Great Lakes Research, Green Bay, WI.

Trexel, D. and D. Francko. 2001. Plant community responses to decreasing water levels at Old Woman Creek NERR, Huron, OH. Ecological Society of America, Madison, WI.

R/ER-48-PD

4/1/1998 3/31/2000

Martinez, F.A., C.L. Brown, and A.M. Palmas. 2001. Cortisol mediated movement in the sedentary coral reef fish *Dascyllus albisella*. 81st Annual Meeting of the American Society of Ichthyologists and Herpetologists. State College, Pennsylvania, USA, July.

R/LR-4

3/1/1998 8/31/2003

Stepien, C.A. 2001. Phylogeographic, population genetics, and systematic relationship patterns in percid fishes using nuclear and mitochondrial DNA sequences. Seminar at John Carroll University, October.

R/ME-24

3/1/2001 2/28/2003

Yeh, C., B Sohngen, T. Haab. 2001. Single Versus Multiple Objective Recreation Trips: A Split-Sample Multi-Site Analysis. Selected Paper presented at the Annual Meetings of the American Agricultural Economics Association, Chicago, IL, August.

R/ME-25

3/1/2000 2/28/2002

Carmen Carrion and Elena Irwin 2001. Linking Policies and Sprawl Patterns of Development: A Spatial Economic Model of Residential Land Use Change in Medina County, Ohio. Paper presented at the Regional Science Association International Meeting, Charleston, SC, November 16-17.

R/NIS-1

6/1/1995 5/31/1998

Stepien, C.A. 2001. Departmental seminar presentations on "Genetic Investigations of nonindigenous species invasions in the Great Lakes". Data from our investigations of the ruffe were presented at Cleveland State University in February 2001, the University of Toledo in March 2001, Case Western Reserve University in 1999, Ohio Wesleyan University in 1999, and the University of Florida, Gainesville in 1998.

Stepien, C.A., and A.K. Dillon. 2001. Genetic identity of the invasion of ruffe in the Great Lakes. Invited poster presentation given at the annual meeting of the Ohio Division of Wildlife in February.

Stepien, C.A., and A.K. Dillon. 2001. Population genetic variability and phylogeographic patterns of zebra and quagga mussels: Exotic invasions and the "leading edge" hypothesis. Oral research presentation given by Dr. Stepien at the symposium on nonindigenous species introductions in the Great Lakes, coordinated by Dr. Robert Heath, at Kent State University in April.

Stepien, C.A., and A.K. Dillon. 2001. Population genetic variability and phylogeographic patterns of zebra and quagga mussels: Exotic invasions and the "leading edge" hypothesis. Oral research presentations given by Dr. Stepien at the annual meetings of the Society for the Study of Evolution in Knoxville, Tennessee in June 2001 and at the annual meeting of the American Society of Ichthyologists and Herpetologists in July 2001 at Pennsylvania State University.

R/NIS-3

3/1/1998 2/28/2002

Miner, J.G., M.P. Bombich, A. Kireta, R.L. Lowe. 2001. Round goby effects in Lake Erie: short-term and long-term projections. Ecological Society of America, Madison, WI.

R/NIS-4-PD

5/1/1997 7/1/2000

Stepien, C.A. and A.K. Dillon. 2001. Genetic relationships of invasive gobies in the Great Lakes versus Eurasian populations. Poster presentation at the Society for Study of Evolution annual meeting held in June 2001 in Knoxville, Tennessee and at the American Society of Ichthyologists and Herpetologists annual meeting held in July 2001 at Pennsylvania State University.

Stepien, C.A. and A.K. Dillon. 2001. Genetic Relationships of the Round Goby Invasion of the Great Lakes. oral research presentation given by C. Stepien at the Ohio Division of Wildlife Annual meeting in Columbus, Ohio in February.

R/NIS-5-PD

9/1/1997 12/31/1997

Carol A. Stepien and Alison K. Dillon. 2001. Genetic Identity of the invasive ruffe *Gymnocephalus cernuus* in the Great Lakes: Invasive sources, genetic variation, and risk. Poster presentation at the Risk Analysis for Invasive Species Workshop, Society for Risk Analysis and the Ecological Society of America, Oct. 21-23 in Las Cruces, New Mexico.

C. Stepien 2001. Genetic investigations of nondigenous species invasions in the Great Lakes: Origins, genetic diversity, and spread patterns of dreissenid mussels, gobies, and the ruffe. Invited seminar presentation to GLERL, Great Lakes Environmental Research Laboratory, NOAA in Ann Arbor, Michigan on December 5.

C.A. Stepien and A.K. Dillon. 2001. Phylogeography of the ruffe *Gymnocephalus cernuus* (Percidae): Glacial refugia, the leading edge hypothesis and exotic introductions. Oral presentation by C. Stepien at Kent State University invited symposium on Water Quality in April 2001 and poster presentation at the Ohio Department of Natural Resources annual meeting in Columbus, Ohio in February.

R/NIS-6-PD

3/1/1999 12/31/1999

Stepien, C.A. 2001. Genetic investigations of exotic species introductions in the Great Lakes. Departmental seminars presented at Cleveland State University (February 2001) and University of Toledo (March 2001).

C. Stepien 2001. Genetic investigations of nondigenous species invasions in the Great Lakes: Origins, genetic diversity, and spread patterns of dreissenid mussels, gobies, and the ruffe. Invited seminar presentation to GLERL, Great Lakes Environmental Research Laboratory, NOAA in Ann Arbor, Michigan on December 5.

R/NIS-7

3/1/2000 2/28/2003

Jeter L, K. Kozak and M. J. González. 2001. Intraguild predation between exotic *Echinogammarus ischnus* and native *Gammarus fasciatus* in Western basin Lake Erie. Binational Conference: Lake Erie in the Millennium Progress and New Issues, Windsor Ontario, Canada, 28-29 March.

Kozak, K., and M. J. González. 2001. Effect of Inter-specific competition and fish on the spatial distribution of *Gammarus fasciatus* and *Echinogammarus ischnus*. Binational Conference: Lake Erie in the Millennium Progress and New Issues, Windsor Ontario, Canada, 28-29 March.

Gonzalez M. J. 2001. 2001. Effects of habitat modification by Zebra mussels and Fish predation on native and exotic amphipod population in Lake Erie. Department of Biological Sciences, University of Quebec, Montreal.

Gonzalez M. J. 2001. Effects of habitat modification by Zebra mussels and Fish predation on native and exotic amphipod population in Lake Erie. University of Oklahoma, Zoology Department.

R/NIS-108-SG

9/1/1997 8/30/1998

Stepien, C.A. 2001. Departmental seminar presentations on "Genetic Investigations of nonindigenous species invasions in the Great Lakes". Data from our investigations of the ruffe were presented at Cleveland State University in February 2001, the University of Toledo in March 2001, Case Western Reserve University in 1999, Ohio Wesleyan University in 1999, and the University of Florida, Gainesville in 1998.

C. Stepien 2001. Genetic investigations of nondigenous species invasions in the Great Lakes: Origins, genetic diversity, and spread patterns of dreissenid mussels, gobies, and the ruffe. Invited seminar presentation to GLERL, Great Lakes Environmental Research Laboratory, NOAA in Ann Arbor, Michigan on December 5.

Stepien, C.A., C.D. Taylor, and K.A. Dabrowska. 2001. Genetic variability and phylogeographic patterns of a nonindigenous species invasion: A comparison of exotic versus native zebra and quagga mussel populations. Oral presentation given by C. Stepien at the CSU Woodlake Field Station annual meeting in September.

C.A. Stepien and A.K. Dillon. 2001. Phylogeography of the ruffe *Gymnocephalus cernuus* (Percidae): Glacial refugia, the leading edge hypothesis and exotic introductions. Oral presentation at Kent State University invited symposium on Water Quality in April 2001 and poster presentation at the Ohio Department of Natural Resources annual meeting in Columbus, Ohio in February.

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

Stepien, C.A. and A.K. Dillon 2001. Genetic Identity of the Invasion of Ruffe in the Great Lakes. poster presentation at the Ohio Division of Wildlife annual meeting in Columbus, Ohio in February 2001.

Carol A. Stepien and Alison K. Dillon. 2001. Genetic Identity of the invasive ruffe *Gymnocephalus cernuus* in the Great Lakes: Invasive sources, genetic variation, and risk. Poster presentation at the Risk Analysis for Invasive Species Workshop, Society for Risk Analysis and the Ecological Society of America, Oct. 21-23 in Las Cruces, New Mexico.

C.A. Stepien. 2001. Genetic Investigations of Exotic Invaders in the Great Lakes. Departmental seminars given at Cleveland State University in February 2001 and at University of Toledo in March. given at Cleveland State University in February 2001 and at University of Toledo in March 2001.

C. Stepien. 2001. Genetic investigations of nondigenous species invasions in the Great Lakes: Origins, genetic diversity, and spread patterns of dreissenid mussels, gobies, and the ruffe. Invited seminar presentation to GLERL, Great Lakes Environmental Research Laboratory, NOAA in Ann Arbor, Michigan on December 5.

C.A. Stepien and A.K. Dillon 2001. Phylogeography of the ruffe *Gymnocephalus cernuus* (Percidae): Glacial refugia, the leading edge hypothesis and exotic introductions. Oral presentation **June 2001** at the Society for the Study of Evolution annual meeting held in Knoxville, Tennessee, in **July 2001** at the annual meeting of the American Society of Ichthyologists and Herpetologists at Pennsylvania State University. Also poster presentation at the CSU Woodlake Field Station annual meeting in **September 2001**.

R/NP-1

3/1/1998 5/30/2001

Li, R. 2001. A Comparative Study on Shoreline Mapping Techniques. PACON 2001, San Francisco, CA, July 9 - 11.

Li, R., R. Ma and K. Di 2001. Generation of Ortho-Images from Commercial High-Resolution Satellite Imagery. Presentation and abstract. The 20th International Cartographic Conference, Beijing, China, August 6-10, 2001.

R/PS-17

9/1/1996 8/31/1998

Grasman, K.A. 2001. Assessing immunological function in toxicological studies of fish-eating birds. Invited presentation in the symposium "Taking Physiology to the Field: Advances in Investigating Physiological Function in Free-living Vertebrates" at the 2001 meeting of the Society for Integrative and Comparative Biology, Chicago, IL, January 3-7, 2001.

Grasman, K.A. 2001. Thyroid function in herring gulls from PCB-contaminated Great Lakes sites. 2001 meeting of the Society for Integrative and Comparative Biology, Chicago, IL, January 3-7, 2001.

McNabb, F.M.A., R.J.R. McClearly, L.A. Fowler, C.M. Parsons, K.A. Grasman, and G.A. Fox. 2001. Thyroid function in polychlorinated biphenyl (PCB)-exposed avian embryos and chicks: Field-caught herring gulls and laboratory chickens. 14th International Congress of Comparative Endocrinology, Sorrento, Italy, 26-10 May.

R/PS-22

9/1/1996 8/31/1998

White E.M., Chin Y.P. 2001. Photochemical production of hydroxide radicals by dissolved organic matter. ASLO National Meeting, Albuquerque, NM.

R/PS-26

3/1/2000 2/28/2003

S. K. Chang and L. K. Weavers 2001. Sonochemical remediation of mercury on synthetic sediments. 22nd National Meeting of the American Chemical Society, Division of Environmental Chemistry, Chicago, IL, August 26-30.

S. K. Chang, Y. Lu, and L. K. Weavers 2001. The role of humic acid in the combined sonochemical desorption and transformation of contaminants from sediments. The Second Annual Symposium on Natural Organic Matter in Soils and Water, North Central Region, Columbus, OH, March 19-20.

R/PS-27-PD

6/1/2000 5/31/2001

Porter, J.A. and R.H. Findlay. 2001. Quantification of Polychlorinated Biphenyls Polycyclic Aromatic Hydrocarbons and Microbial Community Structure Using a Modified Lipid Extraction Protocol. Annual meeting of OBASM, Nashville, IN.

Porter, J.A. and R.H. Findlay. 2001. Modification of a Lipid Extraction Protocol for the Quantification of Polychlorinated Biphenyls, Polyaromatic Hydrocarbons and Microbial Community Structure. 9th Symposium for the International Society of Microbiology, Amsterdam, The Netherlands.

R/ZM-9

9/1/1993 12/1/1997

C. Stepien. 2001. Genetic investigations of nondigenous species invasions in the Great Lakes: Origins, genetic diversity, and spread patterns of dreissenid mussels, gobies, and the ruffe. Invited seminar presentation by C. Stepien to GLERL, Great Lakes Environmental Research Laboratory, NOAA in Ann Arbor, Michigan on December 5.

Stepien, C.A., C.D. Taylor, and K.A. Dabrowska. 2001. Genetic variability and phylogeographic patterns of a nonindigenous species invasion: A comparison of exotic versus native zebra and quagga mussel populations. Oral presentation given by C. Stepien at the CSU Woodlake Field Station annual meeting in September.

Stepien, Carol A. 2001. Population genetics of nonindigenous species invasions in the Great Lakes: DNA sequence variation and the "leading edge" hypothesis. Oral research presentations by Dr. Carol Stepien in invited departmental seminars at Cleveland State University in February 2001 and the University of Toledo in March 2001.

Total Number of Presentations: 76

Presentations from Ohio Sea Grant Projects Presented in 2002

Proj. Number Initiation Date Completion Date Presentation

E/NIS-3

10/1/2001 9/30/2003

Helen Domske, Robin Goettel, Pam Blanchard. 2002. ESCAPE from Exotics. NMEA.

M/P-1

9/1/1978 2/29/2004

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. Lakeside Women's Club. Lakeside, Ohio. 9 July.

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. 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 2/28/2003

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 Nebraska, November.

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.

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.

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.

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 17-19.

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 gauges 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, Ohio, 1-5 October.

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.

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.

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.

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

Chopakatla, 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-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, Canada, June 21.

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., Winnepeg, Alberta, Canada.

R/ER-55

3/1/2000 2/28/2003

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, Ohio, 14-15 February.

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, October.

Heath, R. T. 2002. Great Eating in the Great Lakes Ecosystem: A Big Story about Little Things. Biology Department, John Carroll Univ., November.

Heath, R. T. 2002. Importance of the microbial food web in C- and P-dynamics in the Laurentian Great Lakes. Dept. of Microbiology, University of Tennessee at Knoxville. November.

Heath, R.T. 2002. Senate Testimony before the Senate Subcommittee on Public Works and the Environment. (Sen. Voinovich presiding) Cleveland, OH. August.

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 City July.

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 CSU Graduate Symposium at the Cleveland Clinic in November. Poster is being revised for the coming Ohio Division of Wildlife annual meeting in Columbus, Ohio to be held in February 2003.

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, 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, October.

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. Columbus, OH.

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, March 14.

R/NIS-6-PD

3/1/1999 12/31/1999

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

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, 2002.

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, 2002.

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 GreatLakes. Invited Departmental seminar presentation given by C. Stepien to the Department of Biology, University of Akron, March 14.

Total Number of Presentations: 78

APPENDIX D

Communications

Publication Series & Distribution
Web Site
Newsletter
Media Relations and Coverage
Collaboration and Special Projects

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 communication efforts of our researchers, educators, and extension specialists through such products as newsletters, fact sheets, displays, conferences, and our web site.
- Interacting and collaborating with the communication efforts of the National Sea Grant College Program, regional Sea Grant networks, 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 2001 – December 2002.

- 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. Ohio Sea Grant publications are recognized for their quality and have been honored in award competitions. In 2001, the program newsletter, *Twine Line*, received 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 addition to this honor, the Stone Laboratory materials (brochure, flier, and poster) earned a *Blue Ribbon Award* (first place) among the 30 Sea Grant Programs in the category of "Brochures and Fact Sheets" at the 2001 Sea Grant Week conference.

Before adding items to a series (described below), each one is analyzed as to the audience, the message, 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.

- **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 January 2001 – December 2002. A complete list of all titles is also provided.

Table 1. Publications Produced by Ohio Sea Grant¹

	B	EP	FS	GS	N	PR	RS	TB	TS	TD	Total/Year
2001	4	-	-	1	6	1	10	7	-	6	35
2002	3	1	1	1	6	3	8	5	1	2	31
Total:	7	1	1	2	12	4	18	12	1	8	66

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)

Brochures

- B-051b Stone Laboratory Summer 2001 Course Brochure packet.
- B-059 Stone Laboratory Brochure (completely revised).
- B-059a Stone Laboratory Flier
- B-059b Stone Laboratory Poster
- 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)

Guides

- GS-019c 2002 Western Lake Erie Waterfront Guide to Public Waterfront Access, Charter Fishing, Marinas and Boat Excursions.
- GS-020 Guides to Lake Erie's historic shipwrecks: The Adventure , W. R. Hanna, and F. H. Prince

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, 12 issues were produced).

Public Relations

- PR-007 Lake Erie Programs at The Ohio State University: Media Coverage 2000.
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)

Reprint Series

- RS-258 Conservation Genetics of Freshwater Mussels: Comment on Mulvey et al.
RS-259 Geographic Information System (GIS) Analysis of Ecosystem Invasion: Exotic Mussels in Lake Erie.
RS-260 Intensive Culture of Walleye Larvae Produced Out of Season and During Regular Season Spawning.
RS-261 Ohio's 1998 Lake Erie Charter Fishing Industry.
RS-262 An Experimental Comparison of the Effects of Two Chemical Stressors on a Freshwater Zooplankton Assemblage.
RS-263 Spectral Transmittance of Lake Ice from 400-850nm.
RS-264 Genetic Diversity and Evolutionary Relationships of the Troglodytic "Living Fossil" *Congeria kusceri* (Bilvalvia: Dreissenidae).
RS-265 Flexible Energy Allocation in Zebra Mussels (*Dreissena polymorpha*) in Response to Different Environmental Conditions.
RS-266 Ascorbic Acid and Reproduction in Fish: Endocrine Regulation and Gamete Quality.
RS-267 Genetic and Biogeographic Relationships of the Invasive Round (*Neogobius melanostomus*) and Tubenose (*Proterorhinus marmoratus*) Gobies in the Great Lakes versus Eurasian Populations.
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 Zooplankton 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.

Technical Bulletins

TB-046 Aquatic nuisance species report: An update on Sea Grant Research and Outreach Projects 2000.

TB-053 Franz Theodore Stone Laboratory: Program Review.

TB-054 Heights, the Geopotential, and Vertical Datums.

TB-055 The Impact of Zebra Mussels on the Dynamics of Heavy Metals.

TB-056 Effectiveness of a Coastal Wetland in Reducing the Movement of Agricultural Pollutants into Lake Erie.

TB-057 2002-04 Implementation Plan for the Ohio Sea Grant College Program.

TB-058 Ohio Sea Grant College Program Progress Report 2000-2001

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.

Technical Summaries

TS-031 New Technology in Aquaculture for Raising Yellow Perch

Theses and Dissertations

TD-082 An Evaluation of the Economic Impacts of the Great Lakes Water Quality Initiative.

TD-083 Aquatic Insect Emergence in Three Lake Erie Wetlands.

TD-084 Determination of Photochemical Production of Hydroxyl Radical by Dissolved Organic Matter and Associated Iron Complexes in Natural Waters.

TD-085 Dynamic Ship Routing through Stochastic Spatially Dependent Ocean Currents.

TD-086 A Spatial Economic Model of Land Use Change.

TD-087 Dominance of *Phragmites australis* and Plant Community Composition in Three Wetland Sites in the East Harbor State Park, Ottawa County, Ohio.

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, selected businesses, organizations, and events such as the Lake Erie Marine Trades Association, Lake Erie Nature and Science Center Education, and the Ohio Sea Grant & Stone Laboratory Winter Lecture and Open House programs. 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 below shows the publication distribution for 2001–2002. Table 3 shows the different groups that requested materials for this time frame. Table 4 lists unique special events and collaborating agencies that requested “bulk” quantities of Ohio Sea Grant publications.

Table 2. Materials Distributed:	2001	2002
Fact Sheets ¹	22,754	34,345
Technical Publications ²	4,785	111
Education Publications	1,732	1,361
Guides	889	800
Brochures	7,134	3,761
Books	8	-
Videos	1	-
ID Cards (Eurasian Ruffe, Round Goby)	-	21,600
Stone Laboratory Materials:		
Fliers	21,417	27,866
Brochure	3,444	3,643
Posters ³	27,525	1,544
Total:	89,689	95,031

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 In 2001, posters were produced as tablets of 25 per pad and distributed as “tear off” poster pads. In 2002, individual posters were produced instead.

Table 3: Audiences Requesting Materials: January 2001 – December 2002¹

Audiences	Number of Requests	
	2001	2002
General public	232	148
Environmental organization/zoo/park/museum	19	26
K-12 student	16	5
K-12 Educator	30	68
University teacher	31	18
Government	37	7
Researcher	2	7
University student	9	6
Industry	6	1
Stone Laboratory Materials		
High school students	165	137
K-12 teachers	191	171
College students	364	214
College teachers	23	18
Others	37	27
Total:	1162	853

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

2001	2002
Ashland College	American Association for the Advancement of Science Conference
Cleveland Boat Show/Cleveland Sport Show	American Fisheries Society Annual Meeting
Coastal Zone 2001 Conference, Cleveland	Ashtabula Lighthouse Restoration Society
Columbus Sport Show	Circleville City Schools
Cuyahoga Congressional Assistants Tour	Cleveland Boat Show
Dayton Sport Show	Cleveland Sport Show
First Legislative Day at Put-in-Bay	Congressional/Legislative Day on Lake Erie
GLAERC meeting in Cleveland	Illinois Natural History Survey
Indiana Dunes Workshops	Indiana Dunes National Lakeshore
Lake Erie Conference 2001	Marion County Soil and Water Conservation District
Mansfield 2001 Science Materials Fair	Perry's Victory and International Peace Memorial
National Peace Corps Conference on Global Change	Michigan Sea Grant Extension
National Science Teachers Association Conference	Ohio Department of Natural Resources
New York Sea Grant Education Workshops	Ohio Lake Erie Commission
Ohio Legislature Hearings	Ohio Sea Grant and Stone Laboratory Winter Lecture
Ohio Sea Grant and Stone Laboratory Winter Lecture	Ohio Sea Grant Charter Captains Conference
Ohio Sea Grant Charter Captains Conference	Ohio University Library
Ohio Sea Grant Leadership Institute	Olentangy River Wetland Project
Ohio School Board Assoc Trade Show	Ottawa County Extension
Ohio State House Testimony	Minnesota Sea Grant
Ohio State University Biohio Expo	NJ Sea Grant Coast Day
Ohio State University Outreach and Engagement Conference	New York Sea Grant
Old Woman Creek Visitor Center	Stone Laboratory Open House
Perry's Victory and International Peace Memorial	University of Southern Mississippi
Piqua Soil and Water Conservation District	
Sea Grant Week 2001	
Stone Laboratory Open House	
Wright State University	
US EPA Large Lake Research Station	

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 in conjunction with the Director and Extension Program Coordinators, creates the content for the web pages and oversees 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 2001, the homepage for all Lake Erie Programs was redesigned so that new features could be easily seen and found on the site. In 2002, initial steps were taken to make the web site more accessible to people with disabilities (Section 508 accessible). (Note: the site is currently being revised to be more user-friendly; the new "look" will debut in early 2003).

In 2002, 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 will be 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.

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, 2000, 2001 and 2002. 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, and 1,623,916 hits for 2002. 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 5 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: 2001 and 2002

Hits and Users	2001	2002
Number of Successful Hits for Entire Site	988,631	1,623,916
Average Number of Hits Per Day	2,708	4,449
Number of Unique Users	43,520	76,516

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 2001 – December 2002

Fact Sheets

Boaters: Take Action against Zebra Mussels (FS-054)

Farm Pond Management Tips (FS-061)

Fish Smoked at Home (FS-032)

Lake Erie Water Quality: Past, Present and Future (FS-046)

Round Gobies invade North America (FS-065)

The Spiny Water Flea, *Bythotrephes cederstroemi*: Another Unwelcome Newcomer to the Great Lakes (FS-049)

Zebra Mussels in North America: The Invasion and its Implications (FS-045)

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

Publications Section

Related Links

Stone Laboratory Summer Courses

Current Events

Job Opportunities

From January 2001 – December 2002, 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 Website Visitors by Country: 2001 and 2002

2001	2002
United States	United States
Canada	Canada
United Kingdom	United Kingdom
Australia	Australia
Netherlands	Netherlands
Japan	Poland
Germany	Japan
France	Germany
Spain	France
Italy	Singapore

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.

Newsletter: *Twine Line*

Twine Line, a bimonthly eight-page newsletter geared towards the public, agencies, media, and elected officials, provides coverage about Lake Erie and Great Lakes issues and research. The year 2002 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 65 percent of the articles are written by the Associate Editor/Science Writer. Articles are also written by other staff members including the Communications Coordinator, Director, Extension staff, and Friends of Stone Lab members (35 percent).

Since the February 1993 issue, the Ohio Lake Erie Commission has funded Ohio Sea Grant Communications to include the four-page *North Coast Newsletter* in each issue of the eight-page *Twine Line*. The Ohio Lake Erie Commission represents the six 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, in November 1997 the Friends of Stone Lab newsletter (a volunteer group that supports Stone Laboratory) was incorporated into *Twine Line*. 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.

Newsletter Improvements and Award

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."

MEDIA RELATIONS AND COVERAGE

Reporters frequently request information on Lake Erie issues from Ohio Sea Grant. The Communications Coordinator has 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 and in 2002, 12 releases were distributed. Table 8 shows the news release list for this period.

Table 8: News Releases Distributed during 2001 and 2002 (Jan. – Oct.)

2001

Lake Erie Shipwrecks (1/30/01)
Space Still Available for Stone Laboratory Summer Classes (4/18/01)
Stone Laboratory Announces Summer Guest Lecture Series (6/1/01)
Lake Erie Shipwreck Research Center Add to its Shipwreck Database (6/8/01)
Research Finds Great Lakes Zebra Mussels Founded by Many Individuals (6/18/01)
Annual Stone Lab Open House (7/25/01)
New Lake Erie Artificial Reef Pictures Now On-Line (7/26/01)
Senator DeWine Supports Lake Erie and Stone Laboratory (10/1/01)
Steelhead Trout: Lake Erie's Best Kept Secret (12/4/01)

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)

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. For example, an article entitled "A New Means for Heavy Metal Removal in the Great Lakes" was featured in an Associated Press article and then various articles about this research appeared in 24 different papers and on the Environmental News Network, an on-line electronic news service.

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) and on local television newscasts. The following lists include articles and where they appeared for 2001 and 2002.

Ohio Sea Grant and Stone Laboratory in the Media 2001

January

- January 2001. "Zebras on the loose." WVIZ TV CLEVELAND.
- January 2001. "Artificial reefs...we've got the biggest." <http://www.lcvb.org/fishing/fishing2.shtml>.
- January 05, 2001. "Roundup." AKRON BEACON JOURNAL.
- January 17, 2001. "Wonder Quest." (readers ask questions...) USA TODAY.
- January 19, 2001. "Great Lakes Forecasting System recognized." OSU TODAY.
- January 25, 2001. "Lake Erie award." OSU ONCAMPUS.
- January 25, 2001. "Grant recipients." OSU ONCAMPUS.
- January/February. "Lake Erie's ice fishing returns." FISHWRAPPER.
- January/February. "Ohio Lake Erie Commission awards." FISHWRAPPER.
- January/February. "Aquatic nuisance species continue to spread." FISHWRAPPER.

February

- February 2001. "A cool start for LEMNet." OSU ENVISION.
- February 08, 2001. "Predation on smallmouth bass." OSU ONCAMPUS.
- February 08, 2001. "Chris Stanton on entomology." OSU ONCAMPUS.
- February 16, 2001. "Roundup." AKRON BEACON JOURNAL.
- February 18, 2001. "Thaw ending a great ice-fishing season." AKRON BEACON JOURNAL.
- February 22, 2001. "Lecture to explore Lake Erie shipwrecks." OSU ONCAMPUS.
- February 22, 2001. "Lake Erie water level trend and forecast." glin-announce@great-lakes.net.
- February 22, 2001. "AU to host environmental lecture." NEW LONDON RECORD.
- February 23, 2001. "Lower water levels predicted." SANDUSKY REGISTER.
- February 24, 2001. "Lower water levels predicted for Lake Erie." THE ASSOCIATED PRESS.
- February 24, 2001. "Lake Erie levels could drop." WNWO NEWS 24 TOLEDO.
- February 25, 2001. "Lower water levels predicted for Lake Erie." PORTCLINTONNEWSHERALD.
- February 25, 2001. "Lake Erie likely to lose a foot of water." AKRON BEACON JOURNAL.
- February 25, 2001. "Lake Erie's water level to drop." CANTON REPOSITORY.
- February 25, 2001. "Lake level expected to be lower." LORAIN MORNING JOURNAL.
- February 25, 2001. "Lake Erie level set to drop." WATERTOWN DAILY TIMES.
- February 26, 2001. "Programs during March about wildlife." THE PRESS.
- February 26, 2001. "Lake Erie shipwrecks explored." OSU NEWS MEDIA RELATIONS.
- February 26, 2001. "Lake Erie shipwrecks lecture scheduled." COLUMBUS DISPATCH.
- February 27, 2001. "Lake Erie level expected to be lower in summer." THE ASSOCIATED PRESS.
- February 27, 2001. "Address to explore Lake Erie shipwrecks." OSU LANTERN.

March

- March 2001. "Biologists lauded for zebra mussel research." FISHWRAPPER.
- March 2001. "March walleye can heat up spring." FISHWRAPPER.
- March 08, 2001. "Lake Erie boaters and water levels." THE PORT CLINTON BEACON.
- March 10, 2001. "Steelhead seminar." COLUMBUS DISPATCH.
- March 10, 2001. "Ohio to promote fishing and boating." LORAIN MORNING JOURNAL.
- March 19, 2001. "Underwater preserve building support." COLUMBUS DISPATCH.
- March 25, 2001. "Timing matters for Lake Erie anglers." DAYTON DAILY NEWS.
- March 29, 2001. "Experts warn of algae peril for Lake Erie." TOLEDO BLADE.
- March 29, 2001. "Lower water level may be continuing trend." THE PORT CLINTON BEACON.
- March 29, 2001. "Lake Erie update...interview with Jeff Reutter." CBCRADIO WINDSOR CANADA.
- March 31, 2001. "Lure of spring fishing." THE FREMONT NEWS MESSENGER.

April

Spring 2001. "Can smallmouths weather the storm." LAKE ERIE WALLEYE MAGAZINE.
Spring 2001. "Summer institutes for teachers." GREEN TEACHER MAGAZINE.
April 12, 2001. "Heavy metals." OSU ONCAMPUS.
April 16, 2001. "Exotic newcomers disrupt Great Lakes." CHICAGO TRIBUNE.
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Publishers List 2001

A

AKRON BEACON JOURNAL
ASSOCIATED PRESS

B

BEACON (THE)
BLACK SWAMP FIRELANDS TRADER GAZETTE
BUFFALO NEWS (NY)

C

CANTON REPOSITORY
CBC RADIO WINDSOR CANADA
CHICAGO TRIBUNE
CINCINNATI ENQUIRER
CLEVELAND PLAIN DEALER
COLUMBUS DISPATCH

D

YOUNGSTOWN DAILY BUSINESS JOURNAL
DAYTON DAILY NEWS
DETROIT NEWS

E

EARTHWATCH RADIO UNIVERSITY OF WISCONSIN
ERIE (PA) TIMES
EUREKALERT

F

FISHWRAPPER
FREMONT (OH) NEWS-MESSENGER

G

GREAT LAKES COMMISSION ADVISOR
GREAT LAKES INFORMATION NETWORK ANNOUNCE
GREAT LAKES ENVIRONMENTAL RESEARCH LABORATORY
GREAT LAKES RADIO CONSORTIUM
GREEN TEACHER MAGAZINE

H

I

J

JOURNAL GAZETTE (FORT WAYNE IN)

K

L

LAKE ERIE JOURNAL, OFFICAL GUIDE TO LAKE ERIE CIRLE TOUR
LAKE ERIE SAFEBOATING COUNCIL RESOURCE HANKBOOK
LAKE ERIE WALLEYE MAGAZINE
LORAIN (OH) MORNING JOURNAL

M

MAUMEE BAY (OH) PRESS

N

NEW LONDON RECORD

NEWS-HAROLD

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH SPOTLIGHT

O

OHIO DEPARTMENT OF NATURAL RESOURCES WATERCRAFT FACILITIES DIRECTORY

OHIO DEPARTMENT OF NATURAL RESOURCES PRESS RELEASE

OHIO LEGISLATIVE SERVICES COMMISSION

OHIO STATE UNIVERSITY AGRINATURALIST

OHIO STATE UNIVERSITY ALUMNI MAGAZINE

OHIO STATE UNIVERSITY AROUND THE GLOBE

OHIO STATE UNIVERSITY CENTER FOR MAPPING

OHIO STATE UNIVERSITY COLLEGE OF FOOD AG & ENVIRONMENTAL SCIENCE

OHIO STATE UNIVERSITY ENVIRON SCI

OHIO STATE UNIVERSITY ENVISION

OHIO STATE UNIVERSITY ESGP NEWSLETTER

OHIO STATE UNIVERSITY GIVING UPDATE

OHIO STATE UNIVERSITY LANTERN

OHIO STATE UNIVERSITY NEWS MEDIA RELATIONS

OHIO STATE UNIVERSITY ONCAMPUS

OHIO STATE UNIVERSITY RADIO PUBLICITY CAMPAIGN

OHIO STATE UNIVERSITY SCOREBOARD PUBLICITY CAMPAIGN

OHIO STATE UNIVERSITY SYNERGY MAGAZINE

OHIO STATE UNIVERSITY TODAY

OHIO STATE UNIVERSITY WOSU RADIO

P

PITTSBURGH (PA) POST GAZETTE

PORT CLINTON (OH) NEWS-HERALD

PRESS (THE)

PUT-IN-BAY (OH) GAZETTE

Q

R

S

SANDUSKY (OH) REGISTER

SENTINAL-TRIBUNE

SOUTH BEND (IN) TRIBUNE

T

TOLEDO (OH) BLADE

U

USA TODAY

UNITED STATES DEPARTMENT OF AGRICULTURE

UNITED STATES FISH AND WILDLIFE INSIDE REGION THREE

V

W

WATERTOWN DAILY TIMES (NY)
WALLEYE INSIDER MAGAZINE
WGTE RADIO TOLEDO (OH)
WILSON VERTICAL FILE INDEX
WNWO NEWS 24 TOLEDO (OH)
WTOL-TV NEWS AT FIVE TOLEDO (OH)
WV12 TV CLEVELAND (OH)

X

Y

YOUNGSTOWN (OH) DAILY BUSINESS JOURNAL

Z

Publishers List 2002

A

ACCE INFORMATION
AKRON BEACON JOURNAL
ASSOCIATED PRESS
AP WORLD STREAM

B

BEACON (THE) OTTAWA COUNTY
BLACK SWAMP FIRELANDS TRADER GAZETTE
BLOOMVILLE GAZETTE
BOAT OHIO
BUFFALO NEWS (NY)
BULLETINS FRONT RUNNER

C

CBC NEWS CANADA
CHICAGO TRIBUNE
CHRONICLE TELEGRAM
CINCINNATI ENQUIRER
CITY OF MENTOR COMMUNITY NEWS
CLEVELAND PLAIN DEALER
CLEVELAND SPORT AND OUTDOOR SHOW
COASTLINE OTTAWA CO BEACON
COLUMBUS DISPATCH
COLUMBUS ZOO
CRAINS CLEVELAND BUSINESS

D

DAILY BUSINESS JOURNAL YOUNGSTOWN
DAYTON DAILY NEWS
DETROIT FREE PRESS

E

EDMONTON JOURNAL
ENVIRONMENTAL SERVICES
ERIE (PA) TIMES NEWS
EUREKALERT
ENVIRONMENTAL NEWS NETWORK
ENVIRONMENTAL LAW INSTITUTE

F

FEDERAL DOCUMENT CLEARINGHOUSE
FIELD AND STREAM MAGAZINE
FISHWRAPPER
FREMONT (OH) NEWS-MESSENGER

G

GREAT LAKES DIRECTORY
GREAT LAKES INFORMATION NETWORK ANNOUNCE
GREAT LAKES ENVIRONMENTAL RESEARCH LABORATORY WEBPAGE & UPDATE
GREAT LAKES RADIO CONSORTIUM

H

HAMILTON JOURNAL NEWS

I

J

K

KNOXVILLE NEW SENTINEL
KELLEYS LIFE

L

LAKE COUNTY BUSINESS JOURNAL
LAKE ERIE COASTAL OHIO
LAKE ERIE SHORELINE
LAKE ERIE WALLEYE MAGAZINE
LAKELAND BOATING
LAKELINE
LAKESIDER
LAKE FRONT NEWS
LITTORAL DRIFT
LORAIN (OH) MORNING JOURNAL

M

MICHIGAN STATE UNIVERSITY EXTENSION
MICHIGAN GOVERNMENT
MID AMERICA BOATING
THE MIRROR MICHIGAN BOOTH NEWSPAPERS

N

NEWS MESSENGER
NATIONAL SEA GRANT COLLEGE PROGRAM
NOAA THE INFORMER
NSTA REPORTS

O

OHIO STATE UNIVERSITY OFFICE OF AGRICULTURE & ENVIRONMENTAL &
DEVELOPMENTAL ECONOMICS
OHIO GAME AND FISH
OHIO GAME AND FISH
OHIO STATE UNIVERSITY BIO-OHIO
OHIO STATE UNIVERSITY COLLEGE OF FOOD AG & ENVIRONMENTAL SCIENCE
OHIO STATE UNIVERSITY GIVING UPDATE
OHIO STATE UNIVERSTIY LANTERN
OHIO STATE UNIVERSITY LAKE COUNTY EXTENSION
OHIO STATE UNIVERSITY ONCAMPUS
OHIO STATE UNIVERSITY SCHOOL OF NATURAL RESOURCES

P

PORT CLINTON (OH) NEWS-HERALD
PRESS (THE) EASTERN MAUMEE BAY PRESS
PUT-IN-BAY (OH) GAZETTE
PUT-IN-BAY INSIDER

Q

R

ROS COMMON COUNTY HERALD
RFD NEWS

S

SANDUSKY (OH) REGISTER
SEA GRANT NEWS AND NOTES
SENTINAL TRIBUNE BOWLING GREEN (OH)
SOUTH BEND (IN) TRIBUNE

T

TOLEDO (OH) BLADE
TRADER GAZETTE

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UNITED STATES GLINPO ACTIVITIES REPORT
UNITED STATES NEWSWIRE URBANA DAILY CITIZEN
UNISCI
UPPER ARLINGTON NEWS

V

W

WALLEYE CENTRAL
WALLEYE INSIDER MAGAZINE
WASTE MANAGEMENT TECH NEWS
WISCONSIN UNDERWATER HERITAGE
WTOL-TV NEWS AT FIVE TOLEDO (OH)
WOIO ACTION NEWS HERALD
WJW-TV FOX 8 CLEVELAND
WCPN PUBLIC RADIO CLEVELAND

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Z

Collaboration and Special Projects

From January 2001 – December 2002, 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 (this event has been held 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.

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 a 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. 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).

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.

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." LENS 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 in Lorain County to develop the displays. Displays have featured artificial reefs, aquatic nuisance species, Lake Erie food webs, water levels, and the steelhead trout fishery. With each exhibit Communications provides related fact sheets and other materials for center visitors. The display is usually changed twice a year.

APPENDIX E

Extension

Accomplishments

2001

2002

Activities

2001

2002

**Extension Accomplishments
2001 and 2002**

OHIO SEA GRANT EXTENSION PROGRAM AGENT ACCOMPLISHMENTS 2001

I. Economic Leadership

A. Advanced Technology for Commercial Products and Processes

1. Commercial Biotechnology

2. Environmental Technology

Port Clinton Mayor Thomas Brown and Snyder co-authored and published a public information brochure entitled, *Composting Nuisance Mayflies for Sanitary Disposal* during April and May 2001. This publication resulted from a two-year demonstration project conducted by the authors and funded by the Ohio Lake Erie Commission to improve sanitation, safety and aesthetics during large mayfly emergences affecting the city.

Snyder, F.L. and T.M. Brown. 2001. Composting nuisance mayflies for sanitary disposal (peer-reviewed poster). Coastal Zone '01 International Conference. Cleveland, Ohio, July 15-19, 2001.

B. Seafood Production

1. Commercial Fisheries

2. Sustainable Aquaculture

Working with a local aquaculture producer and the county agricultural extension agent, the specialist developed and conducted a demonstration project regarding the use of barley straw in small ponds for filamentous algae control. 120 pounds of barley straw, secured in mesh bags, were deployed during August into a crayfish/minnow pond exhibiting filamentous algae growth. Observations and a digital photo record will be kept through the fall. Observations during September revealed total (visible) eradication of filamentous algae. A more formal research effort is planned for spring of 2002. (Kelch)

An investigative committee was assembled with the Ohio Aquaculture Association and the OSUE Agricultural Business Enhancement Center to study the feasibility of developing a Northwest Ohio aquaculture research center. A potential location was identified at an existing agriculture "incubator" facility and a business plan was initiated. The committee is now seeking federal funding for the enterprise. (Snyder Dec 2001)

A home-based aquaculture project in a local pond has proven successful. Fingerling yellow perch were stocked during the fall of 1998 along with two species of forage minnows (fathead minnows and golden shiners). No other fish were present in the 1.5 acre pond. Perch stocked at 4-5 inches have now grown to 12-13 inches and spawned in spring of 2000, with the 2000-year class now averaging 6-8 inches, as observed during October of 2001. As planned, the perch are providing family recreation and excellent meals.

3. Seafood Technology

C. Coastal Economic Development;

1. Coastal Business Development

- Fishing

Lichtkoppler, F.R. and L.J. Hushak. 2001. Ohio's 1998 Lake Erie Charter Fishing industry. Fisheries 26(1)15-22.

About 250 licensed charter boat captains from Ohio, Michigan and Pennsylvania gained technical information on business management, environmental issues and fishing technology at the March 2001 Ohio Charter Captains Conference, held in Sandusky. A survey of captains attending for more than one year showed that 95 percent of attendees used conference information to improve their charter operations. Changes in business and fishing practices were reported by 88 percent, and increased profitability stemming from conference teaching was reported by 60 percent. This conference marked the 20th anniversary of a program that has developed national prominence and the largest attendance of any charter business program in the U.S. (Snyder)

Ohio Sea Grant Extension Agents assisted Fred Snyder, Ohio Sea Grant in disseminating information on Lake Erie Resources to 243 people at the Ohio Charter Captain's Conference on March 10, 2001 in Sandusky, Ohio. (F. Snyder, D. Kelch, J. Hageman and J. Lucente).

- Coastal Recreation

The Lorain County Visitors Bureau (LCVB) with the assistance of Kelch assessed the results of the Ohio Lake Erie Heritage Tourism Partnership survey. The LCVB determined tourism directions for 2002 that included cooperation with a Sea Grant Steelhead Angling Survey and promotion of the local steelhead fishery through news releases and special outdoor writer guided trips. Kelch will continue to serve on the board of directors during 2002.

The Governor's appointed Submerge Lands Advisory Council, of which Kelch is a member, has initiated an investigation of buoy placement permits between the Coast Guard and ODNR. Seven known shipwreck sites in Lake Erie's Central Basin, and two sites offshore of Kelley's Island, have now been identified as mooring buoy sites. The purpose of the mooring buoys is to provide shipwreck protection from anchor damage, and to aid in diver safety. Kelch chairs the shipwreck mooring buoy sub-committee for the council. Through these efforts, an allocation from ODNR totaling \$25,000 for mooring buoy anchor block placement has been secured. Buoy placement is planned for 2002.

A fall meeting with representatives of the Lake Erie Charter Boat Association (LECBA) provided LECBA members with updated information regarding their western basin artificial reef project. Sea Grant will continue to assist LECBA in developing this project during

2002.

A committee for the Toledo Artificial Reef Project has been established to investigate the feasibility of constructing artificial reefs in the western basin of Lake Erie relating to creation of fish habitat and eco-tourism opportunities. Literature reviews of past bottom testing revealed the best areas for reef location in the Toledo/West sister Island area. Snyder and Lucente collected bottom substrate samples from potential artificial reef locations near Toledo to determine the weight-bearing abilities of the sites. Members of the Lake Erie Charter Boat and West Sister Charter Boat Associations provided transportation. Communication with various professionals has answered questions regarding potential seiche problems during low water periods over the proposed reef. (Kelch, Snyder & Lucente, September 2001)

Lucente created database of coastal businesses in Lucas County, western Ottawa County and southeast Michigan for inclusion in the Western Lake Erie Waterfront Guide promoting tourism of the region. (March 3-6, 2001).

Lucente received a \$7,480.00 grant from the Lake Erie Protection fund for the development of the Western Lake Erie Waterfront Guide to promote cultural and eco-tourism in the western Lake Erie Basin. Over 20,300 copies of the guide have been printed and are being widely distributed to area Convention and Visitor's Bureaus, businesses, etc., reaching tens of thousands residents and tourists. (December, 2001)

Underwater video documentation was completed for the Wreck of *The Prince* off the east shore of Kelley's Island in Marblehead, Ohio in conjunction with the Ohio Maritime Archaeological Survey Team. This will serve to promote the establishment of the Kelley's Island Underwater Preserve which is currently undergoing public review by the Ohio Department of Natural Resources (Lucente & Kelch, June 18-22 2001)

Lichtkoppler received a \$1,200 Ohio Sea Grant development grant and used it to develop the databases for the 2001 Cleveland Boat and Sport Shows. Information from the two data sets was shared with the Lake Erie Marine Trades Association, the ODNR Division of Watercraft, and state officials at the OSG Leadership Institute on June 9, 2001.

Over 540 patrons of the 2001 Mid America Sail & Power Boat Show (Jan. 19-28) responded to a survey concerning Lake Erie issues, their use of artificial reefs in Lake Erie, and provided data on issues of concern to show management and the Ohio Sea Grant College Program. (D. Kelch, F. Lichtkoppler, J. Lucente and F. Snyder)

Over 500 patrons of the 2001 Cleveland Sport, Travel and Outdoor Recreation Show (March 17-25) responded to the Ohio Sea Grant Sport Show survey and provided data on Lake Erie environmental issues, their use of the Cleveland artificial reefs and items of concern to Sport Show management. (F. Lichtkoppler, D. Kelch, F. Snyder, J. Lucente, and J. Hageman)

The Mentor Lagoons Planning Committee completed the *Mentor Lagoons Nature Preserve*

and Marina 15 Year Plan and presented it to the Mentor City Council for further action, adoption and implementation in March 2001. This is the result of four years of work by the committee. Lichtkoppler assisted the committee from the beginning and provided institutional memory to the three-committee chairs that worked on the plan.

- Marine Trades

2. Coastal Community Development

Ohio Governor Robert Taft reappointed Kelch to the Governor's Submerged Lands Advisory Council (SLAC) during September. His term will extend for three years. This committee makes decisions and recommendations regarding Ohio's submerged lands under Lake Erie, including shipwrecks, salvage, historic artifacts, artificial reefs and underwater preserves.

Planning continues for the proposed Kelly's Island Underwater Preserve. Kelch represents both Ohio Sea Grant and the SLAC on the preserve planning team, while Lucente represents Sea Grant on the preserve planning team composed of island residents, state department representatives, and tourism industry representatives. An October meeting resulted in plans for an interpretive center at the Kelley's Island State Park, an approved area map including known shipwrecks, the approval of a Sea Grant produced interpretive dive slate, final dates for official public hearings in April of 2002, and a dedication ceremony in June, 2002. In addition, at least one Sea Grant representative will serve on the underwater preserve board of directors.

Hageman serves on the local committee planning to host a community celebration of Ohio's Bi-Centennial in 2003, which will feature special events, distinguished speakers and permanent historical kiosks and statues.

The Ottawa County Visitors Bureau was assisted in authoring a proposal entitled, *Lake Erie Heritage Area: Implementation Plan For Economic Development And Preservation Of The Lake's Historical And Natural Resources*. The proposal was submitted to the Ohio Lake Erie Commission requesting \$325,000 and aims to broaden northern Ohio's tourism base. This project was funded in the amount of \$275,000 for three years and will include a Sea Grant seat on the project's board of directors (Snyder, May-December 2001).

Lake Erie Wing Watch, an organization of tourism and natural resources agencies, was assisted during spring and fall 2001 in conducting an assessment of future Lake Erie tourism development based upon bird watching. (Snyder)

Lake Erie Wing Watch officers appointed Snyder to head a task committee that will integrate Wing Watch into the region's ongoing economic development initiatives.

The survey of Portage River Basin tourism resources was completed in August 2001, and was submitted to the PRB Committee for review. (Snyder)

A partnership has been formed with the Greater Toledo Area Chamber of Commerce and The Ohio State University Extension Service to develop a Leadership Institute for elected officials and those who will run for elected offices in Lucas County. Curriculum will focus on duties and responsibilities of elected officials, ethics of public officials, conducting effective meetings, communicating and working with the media, communicating and working with citizens, building sustainable communities, team building techniques, conflict management and dispute resolution, leadership skills and styles, intergovernmental relations, and technology in local governments. (Lucente, June 2001)

With the technical assistance of the agent in Toledo, the North River Economic Development Corporation in Toledo identified and retained a consultant to update the corporation's strategic plan. (March 2001, Lucente)

The agent was asked to serve on the Ohio Lake Erie Heritage Area Steering Committee to help develop nature based coastal tourism and support long-term ecological protection of the Lake Erie shoreline. (Lichtkoppler, May 29, 2001.)

The agent helped the Lake County Planning Commission gain community input for the development of a New County Strategic Development Plan by facilitating three focus groups on the topic of community development. (Lichtkoppler, May 2001)

Williams partnered with Tri-C Community College to develop prospects at the International Call Center Show in Chicago IL, August 1, 2001.

Lucente provided technical assistance and facilitated The North River Economic Development Corporation in Toledo to identify and retain a consultant for the updating of the corporation's strategic plan. (March 2001).

The Recreation and Wildlife Committee of the Portage River Basin Council was led in developing a proposal for a basin-wide inventory of tourism resources during spring 2001. The inventory would provide the basis for the Toledo Metropolitan Area Council of Government's (TMACOG) tourism development plan for the basin. The proposal was submitted to the Ohio Lake Erie Commission. (Snyder)

Williams partnered with Kent State University to offer Succession Planning Program to seventy-four business owners. Owners were presented with options for business succession. March 3, 2001 & April 4, 2001.

Williams co-chaired the North Coast Business Alliance booth at the national manufacturing Trade Show in Chicago, March 3-5, 2001.

Williams conducted an electronic business retention survey for Lorain County. The Agent sent out surveys to 510 companies operating in Lorain County. The agent received 125 responses. This survey identified 20 companies needing assistance expanding, 13

companies needing financial assistance. Thirty percent of the surveyed companies expressed concerns about finding qualified employees. June 2001

Williams conducted an electronic business retention survey for the City of Garfield Heights. The Agent sent out surveys to 123 companies operating in Garfield Heights. The Agent received 36 responses. This survey identified 8 companies that have current expansion projects, and 3 needing financial assistance. April 2001

Williams conducted an electronic business retention survey for the Village of Brooklyn Heights. The Agent sent out surveys to 110 companies operating in the Village. As of this date, the Agent has received 27 responses. Already this survey identified 3 companies that have current expansion projects, and 8 needing financial assistance. July 2001.

Williams conducted a Wellness Survey in Ohio City. This survey was sent out electronically to businesses operating in the Ohio City area. The Agent sent out surveys to 210 companies operating in Ohio City. The Agent received 140 responses. This survey was designed to address wellness issues for the employers of this area. Currently programs are being designed to address issues raised by this survey.

Williams conducted an electronic business retention survey for the City of Mentor. The Agent sent out surveys to 326 companies operating in Mentor. The Agent received 139 responses. This survey identified 12 companies that have current expansion projects, and 29 needing financial assistance. January 2001.

Williams coordinated the deal team to assist Clarkwood Industries from closing operations. Clarkwood experienced financial difficulty when their largest customers stop purchasing the Clarkwood products. This caused Clarkwood to experience severe financial difficulty. The agent, assisted the company in negotiating a new lease agreement, negotiated with creditors to prevent foreclosures and assisted the company in working out a pay back of past due utility bills. This action preserved 20 manufacturing jobs in Cleveland.

Williams successfully facilitated an agreement between Olmsted Falls, Schools and Olmsted Township on the development of a Joint Economic Development Agreement (JED). This agreement will allow the Township to develop land for industrial/commercial use. Specifically, this agreement allows for the construction of sewers and utilities to the proposed area. This agreement is for 150 acres in Olmsted Township. The City of Olmsted Falls will float a bond issue to pay for these improvements. It is anticipated that this agreement will attract industrial tenants to the Township. The Township will share revenue generated from this JED with Olmsted Falls and the Schools. (December, 2002)

New Jobs & Investments:

Company	Investments	New Jobs
Resign Design Inc.	\$ 740,000	23
HH Gregg	\$3,000,000	150
Clarkwood	\$ 235,000	20

The Cuyahoga SWCD has shared the results of the Soil and water Issues In Cuyahoga County survey with key leaders including one county commissioner. (Lichtkoppler, November 2001).

Lichtkoppler, Frank R. and Blaine, Thomas W. 2001. *Soil and Water Issues In Cuyahoga County: Survey Results*. Mimeo. December, 2001.

3. Revitalize Marine Infrastructure

Lichtkoppler presented the paper *Environmental Dredging and Economics: the Ashtabula River Partnership Example* at the International Association for Great Lakes Research 44th Conference on Great Lakes Research on June 10-14, 2001 at Green Bay, Wisconsin.

The Mentor Area Regional Coalition (MARC) completed the Issues Characterization document for the Special Area Management Plan (SAMP) for Mentor Marsh. Lichtkoppler chaired the Wetland/Biodiversity subcommittee of the MARC. (September, 2001).

The Fairport Harbor Port Authority (FPPA) received a \$260,000 grant from the ODNR for recreational dredging on the Grand River. Lichtkoppler has supplied both the FPPA and the US Army Corps of Engineers (USACE) with information concerning dredging needs and justification. (September, 2001.).

At the request of Div. Of Watercraft Chief Jeff Hoedt, Snyder assembled a committee (the Opportunity Team) to begin a planning and implementation process for the eventual construction of a large, publicly owned transient marina at the mouth of the Portage River. The Team, operating through Port Clinton City Hall, recruited membership from the boating public and interested agencies to form a Core Group (administration), an Advisory Group (public input) and a Resource Group (planning). A series of public meetings was scheduled and proposals for construction and operation are now being received. (Aug-DEC 2001)

Members of the Toussaint River Protectors Association were provided decision-making information on lake level fluctuations and forecasts during January-February 2001 that was used in planning the coming year's dredging program. In December Snyder facilitated a meeting between the association and OSU Civil Engineering Prof. Tim Granata to initiate a study of the movement of spent ordinance from the Lake Erie Firing Range by lake currents. Spent ordinance has been identified as a major use impairment of the Toussaint nearshore area.(Snyder)

The Toussaint River Protector's Association was assisted in September 2001 in developing a proposal for a new technique in sediment removal from the river mouth and submitted the plan to the Corps of Engineers. (Snyder)

Members of the Toussaint River Protectors Association were provided decision-making information on lake level fluctuations and forecasts during January-February 2001 that was used in planning the coming year's dredging program. (Snyder)

II. Coastal Ecosystem Health and Public Safety

A. Coastal Ecosystem Health

1. Coastal Ecosystems

Hageman again co-chaired the 10th annual Underwater Clean Up, organizing 53 divers and 122 land volunteers to remove 2,871 pounds of trash from the municipal dock area. To date this event has recovered over 8 ½ tons of trash from Lake Erie.

Snyder, F.L. 2001. Bioinvasive species effects upon the Lake Erie sport fishery (peer-reviewed presentation). Coastal Zone '01 International Conference. Cleveland, Ohio, July 15-19, 2001.

Ten of 14 proposed grant proposals totaling approximately \$1.2 million dollars were approved by the Lake Erie Protection Fund in June 2001. The agent served on the 12 member LEPF Grants Selection Committee recommending the projects for approval. (Lucente, April, June 2001)

Ohio Sea Grant provided Lake Erie input to the Great Lakes Sea Grant Network's Nonindigenous Species Outreach Committee to develop priorities for outreach education on exotic species at a January 2001 conference in Chicago. (Snyder)

2. Coastal and Great Lakes Habitats

Volunteers organized and trained by the specialist continued to catch, tag and release smallmouth bass on artificial reefs locations during October and November. This project, a cooperative effort between Ohio's Division of Wildlife and Ohio Sea Grant, involves the efforts of 15 local bass angling club volunteers trained by the specialist. During 2001, over 400 smallmouth bass were tagged, recorded and released in artificial reef areas. ODNR/DOW scientists have indicated that data from tag returns are beginning to provide valuable information. This effort will continue during 2002.

The Draft Comprehensive Management Plan and Environmental Impact Statement (CMP/EIS) and appendices for the Ashtabula River Partnership (ARP) Remediation Project, Ashtabula, Ohio has undergone internal technical review by the USACE in Chicago and the Buffalo District has developed written responses to the review. (Lichtkoppler, September 2001)

A preproposal was submitted to the Ohio Dept. of Natural Resources, Division of Wildlife in January 2001, requesting funding to expand a study of the potential for the spread of aquatic nuisance species via the live fishing bait industry. (Snyder)

3. Sustainable Development

Lichtkoppler assisted the Lake County Solid Waste District and OSU Extension, Lake County in the development, design and implementation of a countywide curbside recycling survey. Of the 2000 surveys sent out 73% were returned with usable information. Survey data was analyzed, interpreted, and shared with the Lake County Solid Waste Policy Board and the local media.

Lucente has initiated a planning committee in conjunction with John Loftus, Sea Port Director of the Toledo-Lucas County Port Authority and Sandy Bihn, Finance Director of the City of Oregon to establish funding sources for a land re-use study of Combined Disposal Facility #3 in Oregon, Ohio, Lucas County. Current use is a holding facility for dredged materials from the Maumee River federal shipping navigation channel.

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

Snyder taught a three credit hour course entitled *EEOB 125, Introduction to Aquatic Biology*, under the OSU Dept. of Ecology, Evolution and Organismal Behavior to 14 students at the F.T. Stone Laboratory. (Aug 2001)

Snyder and Lichtkoppler served on Ohio State University's Department Promotion and Tenure Committee, evaluating faculty candidates and providing special counseling to certain candidates during April 2001. This committee reviewed documents for 11 candidates for promotion and/or tenure and one candidate for 5th year review in September 2001. All candidates received votes passing their vitae up to the college-level committee. Snyder was elected chairman of the 2002 Department Promotion and Tenure Committee.

Kelch was appointed by Dr. Keith Smith, Director, OSU Extension, to serve on the Directors Advisory Council, and was also elected by his peers to serve as Northeast District Extension representative to the OSU Ag/Natural Resources Faculty Council. During the fall of 2001, Kelch provided input to meetings of both committees.

Kelch presented a paper, titled 'Lake Erie's Artificial Reef Program: Improving Coastal Recreational Benefits Through Fish Habitat Development', at the 2001 Coastal Zone 01 Conference on July 17 in Cleveland, Ohio. This five day International conference, conducted by the National Oceanic and Atmospheric Administration, US Department of

Commerce, addressed coastal issues worldwide.

Lichtkoppler and Snyder participated in the Ohio Sea Grant College Program pre review of 37 research pre-proposals and helped select 21 for full proposal submission and review. (May 31, 2001).

Kelch served on the Ohio Sea Grant Program's Research Proposal Review Team in September. The purpose of this team is to review and recommend appropriate research projects for Sea Grant funding.

Sixteen graduate students and teachers increased their knowledge of coastal geology and Lake Erie issues when Lichtkoppler taught the Lake and Ashtabula County field trip section of the "OSU Geological Setting of Lake Erie" field course as requested by Dr. Krisek in August 2001.

Kelch was appointed by Dr. Keith Smith, Director, OSU Extension, to serve on the Directors Advisory Council. The purpose of this committee is to assist the director in decision-making, keep the director informed regarding current extension faculty concerns and issues, and make recommendations regarding OSU Extension.

Kelch was elected by his peers to serve as Northeast District Extension representative to the OSU Ag/Natural Resources Faculty Council. Kelch will represent faculty and staff in the northeast extension district for the next three years regarding concerns and issues.

Lichtkoppler completed his service as a member of the College of Food, Agricultural and Environmental Science (FAES) Promotion and Tenure Committee with decisions on two cases in January 2001. The FAES College P&T Committee wrote recommendations on P&T for consideration by the Dean. 23 of 25 cases were decided at the University level as the committee recommended. One case was withdrawn by the candidate. Lichtkoppler represented the Department of OSU Extension on the committee.

2. Resource Managers

Lichtkoppler updated Senator DeWines's congressional aid on Lake Erie issues. (May, 2001)

Snyder and other agency personnel hosted legislative aides from three U.S. House offices and one U.S. Senate office in a resource tour and discussion of Lake Erie watershed needs, at Stone Lab and mainland sites. (Aug 2001)

Senator DeWine and a large group of state agency and U.S. Coast Guard personnel were hosted at Stone Lab for an in-depth discussion of Lake Erie research and development needs. (Aug 2001; Reutter, Hageman, Snyder)

Lake Erie and Ohio Sea Grant issues and needs were presented to four Ohio state representatives and one senator at Extension-sponsored legislative visits in Lucas, Ottawa,

Sandusky and Wood Counties held throughout March, 2001. (Snyder)

3. Technical Training

Ten Kent State University (Ashtabula Branch) students learned more about Lake Erie issues at a class taught by Lichtkoppler at the invitation of the course instructor who is an Ashtabula County Commissioner (October 2001).

Fifty-three citizens learned more about using Contingent Valuation to determine voter willingness to pay for environmental amenities at a seminar by Lichtkoppler at the workshop on Benefit/Cost Analysis held at OSU on November 13, 2001.

Eight citizens from two foreign countries and 4 states learned more about the Lake Erie coast as part of the CZ 01 Conference tour of the Headlands Dunes / Mentor Marsh area. (Lichtkoppler, July 15, 2001.)

Scores resource managers and students learned more about community capacity building from a paper, *Ashtabula River Partnership: A Model for Remedial Action*, and a poster, *Mentor Lagoons: Community Stewardship of a Rare Coastal Resource*, presented by Lichtkoppler at the International Coastal Zone 2001 Conference in Cleveland, Ohio July 15 to 19, 2001.

The Great Lakes Coastal Habitats Theme Team and the Great Lakes Network Charter Industry Survey Team were organized at the Great Lakes Network Conference in Erie, PA in September 2002. Lichtkoppler is chair of both these network committees.

Twenty-six Executive volunteers were trained by Williams to talk with executives from companies located outside of Ohio, regarding their expansion plans. These volunteers contacted 310 companies and identified 13 potential expansion projects. April 2001.

Seven Executive volunteers were trained to talk with executive from companies located outside of Ohio, regarding their expansion plans. These volunteers contacted 139 companies and identified 6 potential expansion projects in July 2001. (Williams)

Ohio State University Extension has again partnered with WIRE Net to provide 96 hours of classroom instruction on manufacturing job training skills to unemployed and underemployed residents of Cuyahoga County. The Agent provided 27 hours of classroom instruction in the following subject areas" Money Management, Introduction to Computers, Effective Team Building. As of June 30, 2001 18 students have completed the course. The next course begins on October 15, 2001 and will continue for 6 consecutive weeks. (Williams)

Williams was ask to teach at the Resident Empowerment Organization's annual resident leadership/entrepreneurship training retreat, December 7 to 9, 2001. Sixty-two people learned more about "Gossip in the Workplace" through a curriculum designed and taught by the agent.

Seven Executive volunteers were trained by Williams to talk with executive from companies located outside of Ohio, regarding their expansion plans. These volunteers contacted 139 companies and identified 6 potential expansion projects. July 2001.

Lucente attended and graduated from the Ohio Development Association's Ohio Economic Development Course in March 2001 with specific training in community and economic development paradigms, methods and ideologies. (March 8, 15, 22, 29 and 30, 2001).

Lucente attended two-day seminar on Trade and the Great Lakes in Toledo on April 19 & 20, 2001. Subject matter focused on aquatic nuisance species, challenges in ballast water exchange, eco-tourism and domestic and international trade.

Lake Erie and Ohio Sea Grant issues and needs were presented to four Ohio state representatives and one senator at Extension-sponsored legislative visits in Lucas, Ottawa, Sandusky and Wood Counties. (Snyder)

Twenty-six Executive volunteers were trained to talk with executive from companies located outside of Ohio, regarding their expansion plans. These volunteers contacted 310 companies and identified 13 potential expansion projects. April 2001.

Thirty-two economic development specialists attended the Agent's Economic Development Network meeting January 22, 2001. The focus of this session was on the Information Technology industry in Northeast Ohio.

Forty-eight economic development specialists attended the Agent's Economic Development Network meeting May 22, 2001. The focus of this session was on Business Attraction in Northeast Ohio.

Forty-nine local business owners attended the Garfield Heights business Cluster meeting, May 16, 2001. The purpose for this meeting was to present the results of the Agent's business retention survey for the City of Garfield Heights.

Thirty-six community economic development Extension Agents participated the Agent Strategic Alliance bus tour. The tour highlighted the Collinwood area to illustrate the innovative use of outdated manufacture space. The tour visited the site of the future Job core training site and a five-story manufacture space converted to storage space for antique cars. May 2001

Williams presented a paper titled "Can Developers and Environmentalist Co-exist?" at the Urban Conference May 3, 2001.

Williams presented a paper titled, "Innovative Approaches to Business Retention and Expansion Follow-up" and presented the accomplishments of Business Retention and

Expansion International's Communication Committee at the BREI annual meeting, in Ottawa Ontario on May 12, 2001.

Williams facilitated a session of the Ohio Economic Development Course in Wooster Ohio. This was a tele-conference course. March 2001.

B. Assure an Environmentally and Scientifically Informed Citizenry

1. Pre-college Education

Forty-six teachers from the Eastwood School District (Wood County) learned about Lake Erie ecosystem changes and issues at the Eastwood S.D. Teachers In-service (Snyder, Oct 2001).

Fifty-six pre-college students at Danbury High School gained decision-making information on choosing natural resources-related careers at two programs conducted by Snyder in January 2001.

About 268 middle school and high school students in Genoa, Oak Harbor and Port Clinton learned about Lake Erie's ecosystem during in-school presentations made in May and October 2001. (Snyder)

Two hundred-seventy Fremont elementary students learned about their local aquatic ecosystems at the Atkinson Aquatic Life Day. (Snyder, Nov 2001).

2. Informal Education

Hageman continues to host numerous aquatic science workshop and facilities tours to school groups grades 5-college, agency personnel, professional groups, elected officials and general public to inform them of issues concerning Lake Erie's biology ecology and economic resources. A total of 3195 youth and 2092 adults learned more about Lake Erie, aquatic science, environmental issues and Lake Erie fisheries in 164 workshops, conferences and tours at OSU's F.T Stone Laboratory in 2001.

In 1999, 2000 and again in 2001, Lichtkoppler received \$1,200 Sea Grant development grants and used them to develop the Sea Grant Survey databases for the 1999, 2000 and 2001 Cleveland Boat and Sport Shows. These six data sets have been analyzed and used in the development of research and education priorities for Ohio Sea Grant. Information from the surveys was shared with the Lake Erie Marine Trades Association, the ODNR Division of Watercraft, and state officials at the OSG Leadership Institute on June 9, 2001.

Forty-four Ohio DNR Soil and Water Conservation District staff learned more about Lake Erie issues including non-point pollution during two boat tours of the Lake Erie shoreline on August 7, 2001. (Lichtkoppler)

Forty-five Ohio County Commissioners learned more about the Ashtabula River Partnership and local historical events during a bus and boat tour of the Ashtabula Harbor area during County Commissioners Days in Ashtabula County August 20, 2001.

Scores of Ohio County Commissioners, Ohio State Extension faculty and county staff learned more about Ohio Sea Grant, the Ashtabula River clean up and Lake Erie issues from a talk and an exhibit during County Commissioners Days in Ashtabula County August 20 to 22, 2001. (Lichtkoppler)

The 18th Annual Ohio 4-H Sea Camp as conducted on Kellys Island from July 9-13, with over 90 youth learning more about Lake Erie. The specialist taught sessions regarding Lake Erie environments, biology, fisheries, shipwrecks and snorkeling and proper fish cleaning and handling techniques. (Kelch)

Working with the Sea Grant communicator and her staff, Kelch provided the technical information and display concept for a new educational display at the Lake Erie Nature & Science Center. The theme of this display will focus on Steelhead Trout in Lake Erie.

Reprint requests for 'Steelhead Trout: Lake Erie's Best Kept Secret', the feature article in the November/December issue of Ohio Sea Grant's bi-monthly publication, *TWINELINE* have been received from two regional publications. (Kelch)

Presentations to six clientele groups resulted in over 200 individuals learning more about changes in Lake Erie, impacts of exotic species and fish contaminants. (Kelch)

Ohio Sea Grant Agents participated in teaching scores of newly elected state legislators, OSU officials and their guests at Sea Grant's First State Leadership Institute at Stone Laboratory on Gibraltar Island on June 9, 2001. Topics included areas related to each agent in their respective fields of expertise relative to critical Lake Erie issues. (J. Hageman, D. Kelch, F. Lichtkoppler, J. Lucente, F. Snyder, W. Williams,)

A partnership has been formed between Ohio Sea Grant and COSI Toledo for curriculum development and information dissemination. COSI Toledo will team with Ohio Sea Grant in promoting educational displays and on-site teaching of various courses directly related to the Lake Erie Ecosystem. (J. Lucente, J. Reutter, R. Fortner, June, 2001)

Ohio Sea Grant Extension Agents taught at the Sea Grant Exhibit (developed with the Ohio Sea Grant Communications Program) during the 2001 Mid-America Sail and Power Boat Show (Jan. 19-28). Scores of angler and boater questions were answered and show patrons acquired additional information from the over 5,000 Sea Grant Fact Sheets that were distributed at the show. (D. Kelch, F. Snyder, F. Lichtkoppler and J. Lucente).

Dozens of anglers learned more about Lake Erie resources, low water issues, invasive species, water quality, and fisheries and received 1,100 Sea Grant fact sheets at the Eastlake Fishing Symposium, Feb.17 and 18, 2001. (Lichtkoppler)

Ohio Sea Grant Extension Agents taught at the Sea Grant Exhibit during the 2001 Cleveland Sport, Travel and Outdoor Recreation Show (March 17-25). Scores of angler and citizen questions were answered and show patrons acquired additional information from the over 7,500 Sea Grant Fact Sheets that were distributed at the show. (D. Kelch, F. Lichtkoppler, F. Snyder, J. Lucente and J. Hageman).

About 355 persons gained knowledge of Lake Erie's ecological and hydrological issues through a series of five public lectures held in Lima, Sandusky, Toledo and Cleveland in January-March, 2001. (Snyder)

Seven newspaper interviews and two radio interviews were given by Snyder during 2001. Topics included Lake Levels, aquatic nuisance species, mayflies, fish contaminants and ice fishing.

Information on fluctuating Lake Erie water levels was disseminated to the public via two newspaper and two radio interviews in February and March 2001. From April through June 2001, four additional newspaper interviews were given on the topics of Aquatic nuisance species, mayflies, and fish contaminants. (Snyder)

Dozens of citizens around the country interacted with Snyder during a real-time chat session with Snyder on topics including exotic species, fisheries trends and lake levels, hosted in May 2001 at www.walleyecentral.com.

Administration:

Lichtkoppler and Snyder co-wrote Ohio Sea Grant Extension Program Grant Proposal (A/EP-1 Continuing 2002-2006). Snyder compiled Appendix A - the list of agent activities for Jan 1, 2000 to June 30, 2001. Lichtkoppler compiled, wrote and edited the body of the proposal. Lichtkoppler was responsible for developing the four year budget and for documenting the justification for the almost \$1.49 million dollar effort. He also developed the budget for the community development supplementary appropriation (A/EP-4) amounting to a total of \$200,000 over four years. (November 2001)

OHIO SEA GRANT EXTENSION 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 Hayter 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.; 7) 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 Activities
2001 and 2002**

2001	1	2	keich	osu extension cty advisory committees	elyria	sea grant/lake erie update	28				
2001	2	8	Lichtkopler	Mentor Marsh Board	Mentor	Marsh Management	16				
2001	2	8	Lucente	NW Ohio Reg. Econ. Dev. Assoc.	Toledo	E.D. Issues					32
2001	2	8	Snyder	Great Lakes Sea Grant Network NIS	Port Clinton	NIS Proposal Development Conf. Call	6		X		
2001	2	9	Hageman	Co-Chairs	Conference Call	10th Annual P-1-B Underwater cleanup	6	6			
2001	2	9	keich	cuyahoga river national park meeting	cleveland	meal with director, coop planning					X
2001	2	9	Lichtkopler	Sea Grant Staff	Perthuisia	Heritage River					7
2001	2	9	Lucente	Sea Grant Staff	Perthuisia	River Navigator Meeting	8				8
2001	2	9	Snyder	Cuyahoga River Navigator	Cleveland	Navigator Program					
2001	2	9	Williams	River navigator	Pennsilia	Outreach with Sea Grant	8				
2001	2	9	Williams	Don Morime	Peninsula	Outreach with Sea Grant	3		X		
2001	2	12	Williams	Danara Technical Group	Toledo	Introduction Mtg.	3			X	
2001	2	12	Williams	Denara Technical Group	Cleveland	consultation	15		5		
2001	2	13	keich	governors advisory council, buoy comm	Cleveland	Pre employment -Money 2000					X
2001	2	13	Williams	BR&I Board members	keich	shipwreck buoy placement issues					
2001	2	14	Lucente	Jeff Busch & Jamie Kochensperger	Cleveland	conference call	8				
2001	2	15	Lichtkopler	Land & Water Committees	Toledo	Introduction Mtg.	3		X		
2001	2	15	Lichtkopler	Lake Co. Extension Committee	Parisaville	Land Use Issues	6				
2001	2	16	Hageman	Ohio Wildlife's Mgmt. Association	Columbus	Extension Program Planning	16				
2001	2	16	Lucente	NW District Office Mtg.	Findlay	OH Chap. American Fisheries Soc. Mtg	15				XX
2001	2	16	Snyder	NW District Extension Staff	Findlay	Office Mtg.	22				
2001	2	17-18	Lichtkopler	Eastlake Fishing Symposium	Eastlake	Staff Update					XX
2001	2	19	Lucente	Lucas County Extension	Toledo	Lake Erie Issues					19
2001	2	19	Snyder	Great Lakes Sea Grant Network NIS	Port Clinton	In-Service/Lucas County Library	6				
2001	2	19	Williams	PET	Cleveland	HACCP Conference Call	8			X	
2001	2	20	Snyder	Ohio ANS Task Force	Columbus	Pre employment -Money 2000	8				
2001	2	20	Williams	OEDC	Columbus	Program Planning & Updates	10			X	
2001	2	20	Williams	Housing Court	Cleveland	National Mtg vessel Prep.					
2001	2	20-21	Lucente	OSU Extension	Columbus	Fire suppression equip. installation Heat	6				25
2001	2	21	keich	keich	keich	Orientation					
2001	2	21	Lichtkopler	keich	keich	board of directors, bureau planning	15			18	
2001	2	21	Williams	Industrial Roundtable	Mentor	Marina Planning	5				X
2001	2	22	keich	bay area divers association	Cleveland	CIRI business mtg	36				
2001	2	22	Lichtkopler	Grand River Association	belleve	underwater preserve, shipwreck buoys	12				
2001	2	22	Lucente	Dr. Steve Gaskman	Fairport	Recreational Dredging	2			X	
2001	2	22	Snyder	Sandusky Register	Oregon	Introduction Mtg.					XX
2001	2	23	Lucente	Lucas County	Sandusky	Lake Levels Interview					
2001	2	23	Williams	Freshign Design	Toledo	E.D. Conference	2				220
2001	2	24	Lichtkopler	Mentor Lagoons Planning Committee	Cleveland	Consultation	12				
2001	2	26	Snyder	State Legislators	Mentor	Strategic Plan final work	12				
2001	2	26	Snyder	Cleveland Pilot Dealer	Bowling Green	Lake Erie Legislative Issues	12				XX
2001	2	26	Williams	PET	Cleveland	Lake Levels Interview	6				
2001	2	27	keich	clava, woods & waters club banquet	cleveland	Pre employment -Money 2000	10				XX
2001	2	28	Hageman	Phisants-Forever Board Members	Oak Harbor	sea grant display,	31				
2001	2	28	keich	vermillion rotary club	vermillion	Monthly Meeting	11				
2001	2	28	Lichtkopler	ARP Project Committee	Ashtabula	changes in lake erie, lake levels	11				
2001	2	28	Lichtkopler	ARP Coordinating Committee	Ashtabula	ARP Project	15				
2001	2	28	Lichtkopler	ARP Restoration Committee	Ashtabula	ARP Project Update	12				
2001	2	28	Snyder	Outdoor Recreation Outreach Campaign	Columbus	NRD Project Concepts	27				
2001	2	28	Williams	P&T Retreat	Columbus	Recreation Marketing	36				
2001	3	1	Hageman	College of Ag., Food & Enviro Sci	Woooster	Promotion					36
2001	3	1	keich	Winter Lecture Attendees	Columbus	All Extension					****
2001	3	1	Lucente	OSU Extension	wooster	Lake Erie					****
2001	3	1	Lucente	Gen. Public	Findlay	Stone Lab Winter Lecture					X
2001	3	2	Snyder	WG&R Radio	Cleveland	OSU Ext. College Conference					125
2001	3	2	Snyder	WG&R Radio	Cleveland	Public Hearing/Measure Dredging					75
2001	3	2	Snyder	WG&R Radio	Cleveland	Lake Levels Interview					XX

2001	1	2	keich	osu extension city advisory committee	elyria	sea grant/lake erie update	28			
2001	3	3	keich	fin-feather-fur outfitters facility/store	ashland	lake erie angling and update seminar	69			
2001	3	4	Snyder	Friends of Pearson Metropark	Toledo	Lake Erie Fish Community	38			
2001	3	5	keich	worn public radio, cleveland	cleveland	lake contaminants, dredging				XX
2001	3	5	Lucente	Jeff Reutter	Columbus	Sea Grant Orientation	2	x		
2001	3	5	Williams	National Mig Week	Chicago	Trads Show				
2001	3	6	Lichtkoppler	Mentor Lagoons Planning Committee	Mentor	Strategic Plan Presentation	44			
2001	3	6	Lucente	Wea Farbach	Toledo	Introduction Mig.	2	x		
2001	3	6	Snyder	Ottawa County Visitors Bureau	Port Clinton	Tourism Development Proposal	4			
2001	3	7	keich	us coast guard, sub lands buoy comm	cleveland	shipreck buoying issues	2	x		x
2001	3	7	Lucente	Kathy Fugate	Toledo	Introduction Mig.	2	x		
2001	3	7	Williams	Linda Koss & Jill Greg Clever	Chicago	Urban Specialist	3	x		
2001	3	8	Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	1			14
2001	3	8	Lucente	ODA Conference	Lima	Ohio E.D. Course	x			
2001	3	9	Snyder	Lake Erie Tourism Leaders	Sandusky	Heritage Tourism planning	38			
2001	3	9	Snyder	State Legislators	Port Clinton	Lake Erie Legislative Issues	12			
2001	3	10	Hageman	Ohio Charter Captains Conference	Sandusky	Charter Industry Business Mgt.	15			
2001	3	10	Hageman	Erie-Ottawa-Sandusky Members	Sandusky	Phreasant-Forever Banquet		415		
2001	3	10	keich	Ohio Charter Captains Conference	sandusky	artificial reef research update	255			
2001	3	10	Lucente	Ohio Charter Capt. Conference	Sandusky	Charter Capt. Conference			255	
2001	3	10	Snyder	Ohio Charter Captains Conference	Sandusky	Charter Industry Business Mgt.	255	x		
2001	3	12	Hageman	3-Departments of Stone Laboratory	Columbus	Spring Planning Meeting	18			
2001	3	12	Lucente	Mary Blalen	Bowling Green	Sea Grant Orientation	2	x		
2001	3	12	Snyder	State Legislators	Fremont	Lake Erie Legislative Issues	11			
2001	3	12	Williams	PET	Cleveland	Pre employment -Money 2000	6			
2001	3	13	keich	sea grant mtg. sea grant display	columbus	spot show display, lensc display mtg				x
2001	3	13	Lucente	Sandy Isenberg & Bill Copeland	Toledo	Introduction Mig.	3			
2001	3	13	Snyder	Stone Lab Researchers	Columbus	Equipment Needs	5			
2001	3	13-15	Hageman	Candidates for Summer Employment	Columbus	Interview for 2001 staff	12			
2001	3	14	keich	sea camp conference call	elyria	sea camp 2001 planning				x
2001	3	14	Lucente	John Loftus & Jim Mettler	Toledo	Introduction Mig.	3			
2001	3	15	keich	cleveland sport show	cleveland	set up sea grant display for show				x
2001	3	15	keich	submerged lands advisory council mtg	lorain	submerged preserve issues, buoys				3
2001	3	15	Lucente	ODA Conference	Lima	Ohio E.D. Course	38			
2001	3	15	Snyder	OSU Extension Administrators	Columbus	District Director Interviews	26			
2001	3	16	Hageman	Scholarship Committee	Columbus	Friends of Stone Lab Sch. Awards				8
2001	3	16	Lucente	OSU Extension	Findlay	Jerry Thomas Interview				20
2001	3	16	Lucente	OSU Extension	Toledo	Legislative Visit	15			
2001	3	16	Snyder	NW District Extension Staff	Findlay	District Director Interviews	23			
2001	3	17	Snyder	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues				XX
2001	3	17-23	Lichtkoppler	Cleveland Sport Show	Cleveland	Sea Grant & Lake Erie Issues				XX
2001	3	17-25	keich	cleveland sport show	cleveland	Sea Grant & Lake Erie Issues				XX
2001	3	18	Snyder	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues				XX
2001	3	19	Hageman	Phreasant-Forever Board Members	Oak Harbor	Monthly Meeting	12			
2001	3	19	Lucente	Waymen Usher	Toledo	Introduction Mig.	3			x
2001	3	19	Snyder	WKSU Radio	Kent	Lake Levels Interview				
2001	3	19	Williams	HHH, Gregg	Cleveland	Site Selection	4			
2001	3	19	Williams	PET	Cleveland	Pre employment -Money 2000	6			
2001	3	20	Lichtkoppler	SAMP Steering Committee	Mentor	SAMP	12			
2001	3	20	Lucente	Toledo-Lucas County Port Authority	Toledo	Wetland Mitigation Banking Mtg.	22			
2001	3	20	Lucente	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues				XX
2001	3	20	Snyder	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues				XX
2001	3	20	Snyder	Cleveland Woods and Water Club	Cleveland	Lake Erie Fisheries Update	110			
2001	3	20	Snyder	Cleveland Area Anglers	Cleveland	Lake Erie Fisheries Update (2 progs.)	73			
2001	3	20	Williams	Garfield Electronic Survey	Garfield Hts.	Survey	4			
2001	3	21	Lucente	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues				XX

Year	Day	Time	Staff	Activity	Location	Notes	28	29	30	31	XX
2001	1	2	kelch	osu extension city advisory committee	eyria	sea grant/lake erie update					XX
2001	3	21	Snyder	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues					
2001	3	21	Williams	City of Solon	Twinsburg	Electronic survey	2				
2001	3	21	Williams	COSE Membership network	Cleveland	Networking	55				
2001	3	22	Lichtkoppler	Grand River Association	Fairport	Recreational Dredging	10				
2001	3	22	Lucente	ODA Conference	Lima	Ohio E.D. Course	38				
2001	3	22	Williams	Ohio economic Development course	Wooster	Facilitated Teleconference course 6h	8				
2001	3	23	Williams	Canadus	Cleveland	Canadus deal team	15				
2001	3	24-27	Lichtkoppler	Program Leaders	Hilton Head, SC	Nat. Sea Grant Issues/SG Week	100				XX
2001	3	24-25	Hageman	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues					XX
2001	3	25	Snyder	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues					XX
2001	3	25	Snyder	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues					XX
2001	3	26	Lucente	Hans Rosebrock/First Energy	Toledo	Introduction Mtg.	2				
2001	3	26	Williams	Resign Design	Cleveland	Site Selection	4				
2001	3	27	kelch	extension in-service.	wooster	computer training, power point					x
2001	3	27	Lucente	Lucas County	Toledo	E.D. Conference	8				200
2001	3	27	Williams	Cuyahoga Rap	Penaulla	Cuyahoga river					
2001	3	27-28	Hageman	Conference Attendees	Windsor, ONT	Lake Erie In The Millennium Conf.					120
2001	3	28	Hageman	Attendees	Toledo	28th Educators Symposium					4
2001	3	28	kelch	Ireain county visitors bureau board mtg	Iorain	board of directors, bureau planning					
2001	3	28	Lichtkoppler	ARP Project Committee	Ashtabula	ARP Project	12				
2001	3	28	Lichtkoppler	ARP Coordinating Committee	Ashtabula	ARP Project Update	13				
2001	3	29	Lucente	Succession Planning	Columbus	Private owned companies succession	35				
2001	3	29	Williams	ODA Conference	Columbus	Ohio E.D. Course	38				
2001	3	30	Lucente	ODA Conference	Columbus	Ohio E.D. Course	58				
2001	3	31	kelch	fin-feather-fur outfitters facility/store	ashland	lake erie angling and update seminar	59				
2001	4	2	Lichtkoppler	Co. Commissioners Day Committee	Jefferson	Co. Comm Day Planning	10				
2001	4	2	Lucente	Lucas County Staff Meeting	Toledo	Staff Meeting	20				10
2001	4	3	Hageman	Distinguished Staff Award Committee	Columbus	Distinguished Staff Selection					
2001	4	3	Lichtkoppler	Grand River Partners	Painesville	Land Use /River Preservation	25				
2001	4	3	Lucente	Business & Marina Mapping River Map	SE Michigan, Lucas, Ottawa	River Guide Map 2002 Edition	2				x
2001	4	3	Snyder	Reufter & Lichtkoppler	Port Clinton	Advisory Service Conference Call	2				
2001	4	3	Williams	BREI Board members	Cleveland	Conference call	9				
2001	4	4	kelch	lake erie nature & sciences center	bay village	lake erie angling and update seminar	89				
2001	4	4	Lucente	LEECA	Toledo	Underwater Mapping of Prince Wreck	14				x
2001	4	4	Snyder	central basin charterboat association	Port Clinton	Exotic Species Interview					
2001	4	5	kelch	Marsh Board	Iorain	lake erie update, fishery info	27				
2001	4	5	Lichtkoppler	Dave Eddy, Candace Baldwin	Meritor	Marsh Management	14				
2001	4	5	Lucente	OSU Alumni	Toledo	North River GDC Mtg.	3				x
2001	4	5	Williams	Telebitz national	Fremont	Annual Meeting					45
2001	4	5	Lucente	Lake Erie Commission	Cleveland	Program	18				
2001	4	6	Snyder	Terre College - Elder College	Toledo	Reviewed Pre-proposals for Impl. Grants					14
2001	4	6	kelch	lcvb policy committee meeting	Port Clinton	Lake Erie Issues	12				
2001	4	9	Lucente	Joe Peritaky, Toledo RGP	Iorain	visitor bureau policy changes					8
2001	4	9	Lucente	Candace Baldwin	Toledo	Intro. Mtg.	2				x
2001	4	10	Hageman	Sea Grant Staff	Huron	Advice on consultant for strat. Plan	2				x
2001	4	10	kelch	sea grant agents, researcher mtg	huron	Staff Meeting	7				
2001	4	10	Lichtkoppler	Local Officials	Perry Twp.	sea grant updates, planning	18				
2001	4	10	Lucente	Sea Grant Staff	Huron	Strategic Planning / Land Use					
2001	4	10	Snyder	OSU Extension CED Agents	Columbus	Staff Meeting	7				
2001	4	11	Lucente	Fulton Co. Pond Owners	Wauseon	CED Agents Mtg.	15				
2001	4	11	Hageman	Old Woman Cr. ODNR-CZM	Sandusky	Pond Management	34				
2001	4	12	Lichtkoppler	Sea Grant Staff	Sandusky	Coastal Zone Collaboration					14
2001	4	12	Lucente	Sea Grant Staff	Sandusky	Coastal Management	15				
2001	4	12	Snyder	Sea Grant Staff	Sandusky	Coastal Management	15				

Ohio Sea Grant Extension - 2001 1st, 2nd, 3rd 4th Quarter Combined Activities

2001	1	2	keitch	osu extension city advisory committee	elyria	see grant/lake erie update	28					
2001	4	13	Snyder	Avon Lake Press	Avon Lake	Fish Consumption Advisory Interview						XX
2001	4	16	Williams	PET	Cleveland	Pre employment - Money Talk	9					
2001	4	17	Hageman	Dr. Inger Weideman/Denmark	Put-in-Bay	Facilities Tour	1					
2001	4	17	Hageman	Allison Baker - US State Dept.	Put-in-Bay	Facilities Tour	1					
2001	4	17	Hageman	John Gammon/Nancy Milton, USGS	Put-in-Bay	Facilities Tour	2					
2001	4	17	Lucente	Anne Moore, Toledo Chamber Comm	Toledo	Partnership Mtg.	3		x			
2001	4	18	Hageman	Melissa Hauser	Gibraltar Island	Shadow Student	1					
2001	4	18	Hageman	South Central H.S.	Gibraltar Island	Aquatic Science Workshop				16		
2001	4	18	Lucente	J. Loftus, TLPA, S. Blinn, City of Oregon	Toledo	Land Use Study of Fac. #3 in Oregon	4			x		
2001	4	18	Snyder	Portage River Basin Council	Bowling Green	Basin Development Update	23			x		
2001	4	19-19	Hageman	Worthington Christian H.S.	Gibraltar Island	Aquatic Science Workshop				19		
2001	4	19	Hageman	Wynford H.S.	Gibraltar Island	Aquatic Science Workshop				32		
2001	4	19	Hageman	Justin Tank	Gibraltar Island	Shadow Student	2					
2001	4	19	Lichtkoppler	Grand River Association	Fairport	Recreational Dredging	8					
2001	4	19	Lucente	Trade on The Great Lakes Seminar	Toledo	Attended seminar				42		
2001	4	19	Williams	City of Strongsville	Strongsville	Electronic survey	3					
2001	4	19-20	Hageman	Jonathan Alders H.S.	Gibraltar Island	Aquatic Science Workshop				12		
2001	4	20	Hageman	NW District Extension Staff	Fayette	Staff Meeting	16					
2001	4	20	Lichtkoppler	Land and Water Committee	Painesville	Land Use Plans	6					
2001	4	20	Lucente	Trade on The Great Lakes Seminar	Toledo	Attended seminar				42		
2001	4	20	Snyder	NW District Extension Staff	Fayette	Staff Meeting	16					
2001	4	21-22	Hageman	Friends of Stone Lab	Gibraltar Island	Work Weekend				10		
2001	4	23	Williams	PET	Cleveland	Pre employment - Money Talk	4					
2001	4	23-24	Hageman	Northwood M.S. I	Gibraltar Island	Aquatic Science Workshop				38		
2001	4	24	Hageman	Northwood M.S. II	Gibraltar Island	Aquatic Science Workshop				47		
2001	4	24	Hageman	Wooster Campus	Wooster	Distinguished Staff Presentation				80		
2001	4	24	Lichtkoppler	Mentor Lagoons Committee	Mentor	Marina Plans	8					
2001	4	24	Lucente	ARP Outreach	Ashabula	ARP Project	6					
2001	4	24	Snyder	Kathleen Kovacs, N.J.P. CDC	Toledo	Intro. Mtg.	2			x		
2001	4	25	Hageman	Clay H.S.	Genoa	Lake Erie Issues	175					
2001	4	25	Hageman	lorain county visitors bureau board mtg	Gibraltar Island	Aquatic Science Workshop				10		
2001	4	25	keitch	lorain and local charter captains mtg	lorain	board of directors, bureau planning			19			
2001	4	25	keitch	lewb and lake erie angling concerns	lorain	lewb and lake erie angling concerns					x	
2001	4	25	Lichtkoppler	ARP Project Committee	Ashabula	ARP Project	18					
2001	4	25	Lichtkoppler	ARP Coordinating Committee	Ashabula	ARP Project Update	14					
2001	4	25	Lucente	Richard Bray, ONYX CDC	Toledo	Intro. Mtg.	2			x		
2001	4	25	Snyder	OSUE Promotion & Tenure Committee	Columbus	Vitae Review	12					
2001	4	25-27	Hageman	Sewickley Academy	Gibraltar Island	Aquatic Science Workshop				64		
2001	4	26	Hageman	Mallory Hageman	Stone Lab	Take Daughter to Work Day	4					
2001	4	26	keitch	weol radio, elyria	elyria	fish contaminants, angling						XX
2001	4	26	Williams	Succession Planning	Cleveland	succession planning seminar	39					
2001	4	26	Williams	Executive tour	Holmes county	OSU	12					
2001	4	26-27	Hageman	Ann Stoeckmann	Cleveland	Business attraction	16					
2001	4	27	Hageman	Soils M.S.	Peach Port Resch Lab	Research Project Assistance				2		
2001	4	27	Lucente	Duck/Other Creek Partnership	Gibraltar Island	Aquatic Science Workshop				25		
2001	4	27	Lucente	J. Loftus, TLPA, S. Blinn, City of Oregon	Toledo	Tour of Duck/Otter Creeks	18					
2001	4	27-28	Hageman	Mimford M.S.	Toledo	Land Use Study of Fac. #3 in Oregon	4			x		
2001	4	30	Lichtkoppler	Cong DeWine's Aid	Gibraltar Island	Aquatic Science Workshop				21		
2001	4	30	Lucente	Julie Ward, WSOS RCAP Program	Painesville	Sea Grant	6					
2001	4	30	Snyder	Great Lakes Sea Grant Network	Fremont	Wastewater and eco-tourism issues	4			x		
2001	4	30	Williams	PET	Port Clinton	ANS Committees Conference Call	6			x		
2001	4-5	30-1	Hageman	Mills School I	Cleveland	Pre employment - Money talk	4					44
2001	5	1	Lichtkoppler	Local Officials	Gibraltar Island	Aquatic Science Workshop						
2001	5	1	Lucente	Lake Erie Protection Fund	Willoughby	Strategic Planning / Land Use	18					
2001	5	1-2	Hageman	Mills School II	Toledo	Wrote grant appl. For LEPP	1					
2001	5	1-2	Hageman		Gibraltar Island	Aquatic Science Workshop				45		

Year	Day	Lead	Activity	Location	Notes	28	X	30
2001	1	2	sea grant/like erie update	elyria	Partnership Mtg.	28	X	
2001	5	15	Partnership Mtg.	Toledo		2		
2001	5	15	Migratory Bird Conservation Conf.	Oak Harbor				30
2001	5	15-16	Aquatic Sciences Workshop	Gibraltar Island		24		61
2001	5	16	Lake Erie Fisheries Discussion	Port Clinton		49		
2001	5	16	Cluster group	Garfield Hts		51		
2001	5	16-18	Aquatic Sciences Workshop	Gibraltar Island		18		X
2001	5	17	preserve planning committee	Kelleys Island		68		
2001	5	17	Lake Levels & Dredging	Fairport				350
2001	5	17	Partners in Progress Annual Luncheon	Toledo				12
2001	5	17	International Lily Grower Mtg.	Toledo		3		
2001	5	18	Deve Krabill	Columbus				20
2001	5	18	Aquatic Sciences Workshop	Gibraltar Island				
2001	5	18	Sea Grant & ARP Project	Ashtabula		25		
2001	5	18	Staff Meeting	Findlay		13		
2001	5	21	Aquatic Sciences Workshop	Gibraltar Island		8		13
2001	5	21	Conference Call Mtg.	Toledo		5		
2001	5	21-22	Planning Conference Call	Port Clinton				51
2001	5	22	Aquatic Sciences Workshop	Gibraltar Island		15		
2001	5	22	Tour Planning	Peach Point Rech Lab		6		
2001	5	22	ARP Project & Co. Comm Day	Ashtabula		5		
2001	5	22	Set up Sea Grant & COSI Toledo Mtg.	Toledo		48		X
2001	5	22-23	Business attraction	Garfield Hts.		65		
2001	5	23	changes in lake erie, contaminants	korain		12		
2001	5	23	ARP Project	Ashtabula		21		
2001	5	23	ARP Project Update	Ashtabula				20
2001	5	23	Attended Grants Writing Workshop	Columbus		25		
2001	5	23-24	Aquatic Sciences Workshop	Gibraltar Island		8		
2001	5	24	Aquatic Sciences Workshop	Gibraltar Island				9
2001	5	24	Recreational Dredging	Fairport		2		
2001	5	24	Intro. Mtg.	Toledo		3		X
2001	5	24	Partnership Mtg.	Toledo		37		X
2001	5	24-25	Pond Management	Oak Harbor		63		
2001	5	25	Aquatic Sciences Workshop	Gibraltar Island				2
2001	5	25	Fall 2001 W.S.	Bayview Office		27		
2001	5	28	changes in lake erie, artificial reefs	port clinton		10		
2001	5	29	Nature Based Tourism Project	Cleveland		2		X
2001	5	29	Intro. Mtg.	Toledo		53		
2001	5	29-30	Aquatic Sciences Workshop	Port Clinton				34
2001	5	30	NEMO-Watershed Mtg.	Gibraltar Island				14
2001	5	30	develop plans for reef	wooster		3		
2001	5	30	watershed issues, cooperation	wooster		5		X
2001	5	30	NRD Restoration Ideas	Ashtabula		9		
2001	5	30	Ohio NEMO Project	wooster		3		X
2001	5	30	Toledo Art. Reef Mtg.	Lorain				18
2001	5	30	NEMO mtg.	wooster		9		
2001	5	30-31	NEMO Program	wooster		3		44
2001	5	31	Aquatic Sciences Workshop	Gibraltar Island				
2001	5	31	Mayfly Program for Website	Peach Point Rech Lab				27
2001	5	31	Aquatic Sciences Workshop	Gibraltar Island				2
2001	5	31	Facilities Tour	Gibraltar Island		9		X
2001	5	31	Preproposal Review	Columbus				40
2001	5	31	Regional Mtg. On Maumee River	Fort Wayne, IN		10		
2001	5	31	Proposal Review	Columbus				
2001	5-6	31-1	Aquatic Sciences Workshop	Gibraltar Island				36

Ohio Sea Grant Extension - 2001 1st, 2nd, 3rd 4th Quarter Combined Activities

Year	Month	Day	Activity	Location	Personnel	Notes	Cost	Revenue	Net
2001	6	2	osu extension advisory committee	elyria	keich				
2001	6	1	Bryan Allen-OSU Bookstore	Gibraltar Island	Hageman	sea grant/lake erte update			
2001	6	1	Whittier middle school, 7 & 8 biology	Irain	keich	Bookstore Set Up			
2001	6	1	North Cen. Ohio Reg. Econ. Dev. Assoc	Sandusky	Lucente	lake erte fishery issues	61		6
2001	6	2	N. Ohio Herpetological Society	Gibraltar Island	Hageman	Regional Mtg.			
2001	6	3	EEOB 125 Class	Gibraltar Island	Hageman	Snake Research Tour			12
2001	6	4	Fl. Jennings Environon	Gibraltar Island	Hageman	Stone Lab Orientation	8		13
2001	6	4	Northwest District Office Extension	Findlay	Hageman	Aquatic Science Workshop			9
2001	6	4-6	rv buckeye I research boat	port clinton, elyria	keich	Demra Scan Training	1		33
2001	6	5	Whitford M.S.	Gibraltar Island	Hageman	prep research boat for summer work			
2001	6	5	ARP Restoration	Ashabula	Lichtkoppler	Aquatic Science Workshop	80		
2001	6	5	Kurt Erichson, Dave Gidson, TMACOG	Peach Point Rech Lab	Lucente	NRD Restoration Ideas	4		x
2001	6	5-6	ODNR	Cleveland	Hageman	Intro. Mtg.	3		14
2001	6	6	Audubon Society	Toledo	Lichtkoppler	Wild Life Meetings	15		
2001	6	6	Jeff Reutter, Sea Grant, COSI Toledo	Toledo	Lucente	Tourism	5		x
2001	6	7	Grizel M.S.	Gibraltar Island	Hageman	Aquatic Science Workshop	66		
2001	6	7	glsn conference team, conference call	elyria	keich	glsn fall conference planning			x
2001	6	7	Lucas County Advisory Ex. Cab. Mtg.	Toledo	Snyder	Advisory Cabinet Mtg.	17		
2001	6	7	Port Clinton Mayor	Port Clinton	Lucente	Compositing Brochure Development	3		
2001	6	8	ARP Restoration	Ashabula	Lichtkoppler	NRD Restoration Ideas	5		
2001	6	8	Fred Snyder, Sea Grant	Port Clinton	Lucente	Mentoring Mtg.	2		
2001	6	9	New State Legislators	Gibraltar Island	Hageman	Facilities Tour	50		
2001	6	9	osg elected officials leadership day	put-in-bay, stone lab	keich	four presentations, artificial reefs	50		
2001	6	9	Ohio State Legislators	Put-in-Bay	Lichtkoppler	Sea Grant Research / LE Issues	80		
2001	6	9	Ohio State Legislators	Put-in-Bay	Lucente	Sea Grant Research / LE Issues	80		
2001	6	9	Ohio State Legislators	Put-in-Bay	Snyder	Sea Grant Research / LE Issues	80		
2001	6	10	EEOB 126, Geo 107, Nat 611	Gibraltar Island	Hageman	Stone Lab Orientation	32		
2001	6	10-11	IAGLR Conference	Green Bay, WI	Lichtkoppler	ARP Economics	30		
2001	6	11	PRBC Recreation & Wildlife Committee	Elmore	Snyder	Tourism Planning	7		XX
2001	6	11	Toledo Blade	Toledo	Snyder	Mayfly Interview			
2001	6	12	osu extension diversity training seminar	elyria	keich	diversity training, inservice			x
2001	6	12	NW District, OSU Ext.	Findlay	Lucente	NW District Specialist Interviews			24
2001	6	12	NWD Extension Agents	Findlay	Snyder	CD Specialist Interviews			18
2001	6	13	Storm Water Management Seminar	Columbus	Lucente	Attended Seminar			
2001	6	14	Visitors for Guest Lecture	Gibraltar Island	Hageman	Lake Erie Geology			44
2001	6	14	west cleveland walleye association	clawland	keich	lake erte update, angling issues	47		
2001	6	14	Northwest OH Reg. Econ. Dev. Assoc.	Toledo	Lucente	NORED Mtg.	42		
2001	6	14	Maumsee RAP	Toledo	Lucente	Attended RAP Mtg.	30		
2001	6	15	Northwest District Extension Office	Gibraltar Island	Hageman	Science Cruise/Office Conference	11		
2001	6	15	transport r/v buckeye I research boat	elyria, port clinton	keich	trailer research vessel to marina			1
2001	6	15	NW District Extension Staff	Put-in-Bay	Lucente	Staff Meeting	14		
2001	6	15	NW District Extension Staff	Put-in-Bay	Snyder	Staff Meeting	14		x
2001	6	16	Williams Co. Extension	Gibraltar Island	Hageman	Watershed Ecol. Workshop			20
2001	6	16	Rich King, et. al	Northbas Island	Hageman	Water Snake Research	4		
2001	6	17	Rich King, et al	Middlebas Island	Hageman	Water Snake Research	4		
2001	6	17	Term One Students	Gibraltar Island	Hageman	Stone Lab Orientation	26		
2001	6	18	Distinguished Staff Recipients	Columbus	Hageman	2001 Distinguished Staff Awards			80
2001	6	18	research dive, wreck of prince, video	keleys Island	keich	archaeological project, prince wreck			x
2001	6	18	Port Clinton News-Herald	Port Clinton	Snyder	Mayfly Interview			XX
2001	6	18-19	D. Keich, Sea Grant and MAST TEAM	Keley's Island	Lucente	Document Wreck of The Prince	36		
2001	6	19	Research Lecture Attendees	Gibraltar Island	Hageman	Lake Erie Water Snakes			33
2001	6	19	research dive, wreck of prince, video	keleys Island	keich	archaeological project, prince wreck			x
2001	6	20	research dive, wreck of prince, video	keleys Island	keich	archaeological project, prince wreck			x
2001	6	20	keleys Island w/v presence mtg	keleys Island	keich	lake erte shipwrecks, underwater video	22		
2001	6	20	D. Keich, Sea Grant and MAST TEAM	Keley's Island	Lucente	Keley's Island Underwater Preserve Mtg	18		
2001	6	20	Ohio Lake Erie Commission	Freemont	Snyder	Commission Meeting			30
2001	6	21	Guest Lecture Attendees	Gibraltar Island	Hageman	Engineered Micro Algae			34

Ohio Sea Grant Extension - 2001 1st, 2nd, 3rd 4th Quarter Combined Activities

2001	1	2	keich	osu extension city advisory committee	elyria	see grant/trake erie update	28		
2001	8	4	Hageman	Tom Kobil	Gibraltar Island	Filming L.E. Islands Documentary			4
2001	8	6	Hageman	Marion Rotary Bd of Trustees	Gibraltar Island	Board Meeting			13
2001	8	6	Hageman	Englewood Hills School Faculty	Gibraltar Island	Aquatic Science Workshop	38		
2001	8	6	Williams	PET	Cleveland	Pre employment training	12		
2001	8	7	Hageman	Bob Schott	Gibraltar Island	Facilities Tour			2
2001	8	7	Hageman	EEOB 653 Class	Lake Erie	Big Fish Trawl Demonstration	10		
2001	8	7	Hageman	Donauer Family	Gibraltar Island	Facilities Tour			7
2001	8	7	Hageman	Stone Lab Students/Faculty	Gibraltar Island	Graco Kibane- Dung Beetles			28
2001	8	7	Lichtkoppler	SWGD Staff	Grand River / Lake Erie Tour	Lake Erie Issues	48		
2001	8	7	Lucente	Fred Snyder	Celawaha Island	Bottom Sampling for Tol. Art. Reef Proj	2		xx
2001	8	8	Lichtkoppler	OSU Geology Students	ike / Ashtabula Coastline To	Coastal Geology	18		
2001	8	9	Hageman	Ottawa Nat'l Wildlife Refuge	Gibraltar Island	Facilities Tour	19		
2001	8	9	Hageman	Visitors for Guest Lecture	Gibraltar Island	Jeff Hoedt - Ohio Boating	3		
2001	8	9	keich	aque amigos dive club	cleveland	underwater preserve/shipwreck update	45		xx
2001	8	9	Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14		
2001	8	9	Lucente	Northwest Ohio Reg. Econ. Dev. Assoc.	Toledo	NORED Mtg.	42		xx
2001	8	9	Williams	Maumee RAP	Toledo	Attended RAP mtg.	30		
2001	8	9	Hageman	Akron Warehouse & Storage	Cleveland	Consultation	3		
2001	8	10	Hageman	Neal Banaszak	Bayview Office	Interview for Workshop Asst. Position	2		
2001	8	10-11	Hageman	Paul Stromberg/Karen Jennings	Gibraltar Island	Fundraising for F.O.S.L.w/Dr. Crites			6
2001	8	11	Hageman	Sandusky Experimental Radio League	S.B. Island Lighthouse	Amateur Radio			6
2001	8	12	Hageman	John Olive, Univ. of Akron	Gibraltar Island	Plankton Research			1
2001	8	13	Hageman	Bi-Centennial Committee	Put-in-Bay	Ohio's Bi-Centennial Celebration Plans	2		12
2001	8	13	Hageman	Brenda Cullier, Sandusky Register	Gibraltar Island	L.E. Water Snake Article	5		x
2001	8	13	Lucente	Capt. George Fuller	Toledo	Bottom Sampling for Tol. Art. Reef Proj	4		
2001	8	13	Snyder	Toledo Artificial Reef Committee	Curtice	Substrate Sampling	4		
2001	8	13	Williams	BRET Conference call	Cleveland	BRET business	12		
2001	8	13	Williams	PET	Cleveland	Pre employment training	12		
2001	8	14	Hageman	Stone Lab Students/Faculty	Gibraltar Island	Marc Brannham - Lightning Bugs			20
2001	8	14	keich	submerged lands advisory council mtg	vermillion	preserves, shipwreck buoys	15		x
2001	8	14	Lucente	Toledo-Lucas County Port Authority	Toledo	Water Resource Project Mtg.	34		
2001	8	14	Williams	Linda Highsmith Cleveland Port	Cleveland	consultation	2		
2001	8	14	Williams	Cuyahoga Rap	Medina	Remedial Action plan	10		
2001	8	15	Hageman	OSU Ext./U.S. Legislative Aides	Gibraltar Island	Facilities Tour	12		
2001	8	15	Lucente	Toledo Chamber of Commerce	Toledo	Leadership Training Mtg.	6		xx
2001	8	15	Snyder	State Legislative Aides	Stone Laboratory	Lake Erie Issues	25		
2001	8	15	Williams	Legislative visit	Cleveland	legislative update	4		
2001	8	16	keich	west cleveland walleye association	cleveland	smallmouth bass/artificial reefs	37		
2001	8	16	Lichtkoppler	Fairport Rod and Reel Association	Fairport Harbor	Lake Erie & Lake Levels	45		
2001	8	16	Lucente	NW District Office	Findlay	Vision to Action In-Service	20		
2001	8	17	Lichtkoppler	Legislative Leaders & OSU Faculty	Fairport Harbor	Lake Erie Issues & Ohio Sea Grant	25		xx
2001	8	17	Lucente	Kelley's Island UP Planning Team	Kelley's Island	UP Public Hearing #2	50		xx
2001	8	17	Snyder	District Extension Staff	Findlay	Office Conference	12		
2001	8	18	Hageman	Boy Scout Troop 149	Gibraltar Island	Facilities Tour	20		
2001	8	18	Hageman	Kathryn McKay	Bayview Office	Interview for Workshop Asst. Position	2		
2001	8	20	Hageman	U.S. Sen. Mike DeWine	Gibraltar Island	Facilities Tour			36
2001	8	20	Lichtkoppler	Co. Commissioners & OSU Faculty	Jenerson	Ohio Sea Grant College Program Exhib	140		
2001	8	20	Snyder	Sen. DeWine Lake Erie Tour	Stone Laboratory	Lake Erie Legislative Needs	35		
2001	8	20	Williams	PET	Cleveland	Pre employment training	6		
2001	8	20-21	Hageman	Sally Miller, OSU Wooster	Gibraltar Island	Piant Pathology Field Trip			10
2001	8	21	Lichtkoppler	Co. Commissioners & OSU Faculty	Ashtabula	Harbor Tour / ARP	45		xx
2001	8	22	Lichtkoppler	Co. Commissioners & OSU Faculty	Jefferson	Lake Erie Issues & Ecology	10		
2001	8	22	Snyder	Port Clinton Mayor, OH Div Watercraft	Port Clinton	Transient Marina Development	7		xx
2001	8	22-24	Hageman	O.S.U. Residence Life	Gibraltar Island	Annual Retreat			45
2001	8	23	Lucente	State CD Agents Mtg.	Crooksville	State CD Agent Mtg.	28		
2001	8	23	Snyder	Lake Erie Buffer Team	Lima	Buffer Implementation			18

Ohio Sea Grant Extension - 2001 1st, 2nd, 3rd 4th Quarter Combined Activities

2001	1	2	ketch	osu extension advisory committee	elyria	sea grant/erie update	28			
2001	8	23	Snyder	Sea Grant Program Leaders	Port Clinton	Conf. Call - Awards Program	8			
2001	8	23	Williams	RPM	Medina	Company Visit	3			
2001	8	23	Williams	Westfield Insurance	Medina	Company Visit	3			
2001	8	24-26	Hageman	Friends of Stone Lab Board	Gibraltar Island	Annual Meeting			20	
2001	8	25	Hageman	Open House Visitors	Gibraltar Island	Stone Lab Open House	550			
2001	8	25	Hageman	Open House Visitors	S.B. Island Lighthouse	Lighthouse Tour			220	
2001	8	25	Snyder	General Public	Stone Laboratory	Stone Lab Open House	90			200
2001	8	27	Williams	PRBC Rec & Wildlife Committee	Pemberville	Tourism Inventory	6	xx		
2001	8	27	Williams	PET	Cleveland	Pre employment training	6			
2001	8	29	Hageman	Sandusky City Court	Sandusky	Expert Witness Testimony	25			
2001	8	29	Williams	PET	Cleveland	Pet partners mtg.	4			
2001	8	29-30	Hageman	Phillips Osborne - Painesville	Gibraltar Island	Aquatic Science Workshop			22	
2001	8	30-31	Hageman	Hathaway Brown - Shaker Hts.	Gibraltar Island	Aquatic Science Workshop	75			
2001	8	31	Hageman	Fred Snyder	Port Clinton	2nd Quarter Act. Report				
2001	8	31	Hageman	Jeff Reutter/Gary Isbell	Columbus	Testimony Conference Call	3			8
2001	9	4	Hageman	3 Dept. Meeting	Columbus	Stone Lab Future Growth				
2001	9	4-5	Hageman	Grace Brethren - Centerville	Gibraltar Island	Aquatic Science Workshop	28			
2001	9	5	ketch	weel radio, elyria	elyria	lake levels, fall fishing				xx
2001	9	5	Lichtkoppler	L.E. Commission	Mentor	Lake Erie				xx
2001	9	5	Lucente	Slate CD Agents	Columbus	Key Concepts in-Service	50			xx
2001	9	5-6	Hageman	O.S.U. - Master Gardeners	Gibraltar Island	Aquatic Science Workshop	31			
2001	9	5-6	Hageman	O.S.U. - A.T.I. Staff	Gibraltar Island	Conference			19	
2001	9	6	Hageman	Inland Seas Museum Staff	Gibraltar Island	Facilities Tour	9			
2001	9	6	Hageman	Bruce Leach	Gibraltar Island	Stone Lab Library			2	
2001	9	6	Hageman	Gunnar Lowenstein/Tony Piel	Peach Pt. Research Lab	NOAA Zebra Mussel Research			3	
2001	9	6	ketch	Ohio Lake Erie Conference	mentor	lake erie issues, receive photo award				150
2001	9	6	Lichtkoppler	Ohio Lake Erie Conference	Mentor	Research & management updates				150
2001	9	6	Lucente	Ohio Lake Erie Conference	Mentor	Research & management updates	150			
2001	9	6	Snyder	Ohio Lake Erie Conference	Mentor	Research & management updates				150
2001	9	6-7	Hageman	Woodside M.S. - Ft. Wayne, IN	Gibraltar Island	Aquatic Science Workshop			32	
2001	9	7	Hageman	Jefferson Elem. - Port Clinton	Gibraltar Island	Aquatic Science Workshop			52	
2001	9	7	Lichtkoppler	OSU Faculty/Sea Grant	Rocky River	OSG Grant Proposal	4			
2001	9	7	Lucente	Sea Grant Agents	Lorain	Sea Grant Extension Proposal	3			
2001	9	7	Snyder	Lichtkoppler & Reutter	Painesville	Advisory Service Proposal Development	3			
2001	9	9-12	ketch	Great Lakes Sea Grant Network	Erie, PA	Great Lakes Network Conference	55			
2001	9	9-12	Lichtkoppler	Great Lakes Sea Grant Network	Erie, PA	Great Lakes Network Conference	55			
2001	9	9-12	Lucente	Great Lakes Sea Grant Network	Erie, PA	Great Lakes Network Conference	55			
2001	9	9-12	Snyder	Great Lakes Sea Grant Network	Erie, PA	Great Lakes Network Conference	55			
2001	9	10	Hageman	Roger Thomas/Brent Kinsley	Peach Pt. Research Lab	Fish Surveys			2	
2001	9	10-11	Williams	Great Lakes Network Erie PA	Erie PA	Great Lakes Network Conference	55			
2001	9	11	Lucente	Sea Grant Network Mtg.	Erie, PA	Great Lakes Sea Grant Network Center	120			
2001	9	11-12	Hageman	Hilliard Station I - Hilliard	Gibraltar Island	Aquatic Science Workshop			42	
2001	9	12	Hageman	O.S.U. Extension - Community Dev.	Gibraltar Island	Meeting	10			
2001	9	12	Hageman	Genoa H.S. German Exchg. Students	Gibraltar Island	Facilities Tour			20	
2001	9	12-13	Hageman	Sea Grant Network Mtg.	Erie, PA	Great Lakes Sea Grant Network Center	120			41
2001	9	13	Hageman	N.W. District Farm Service Agency	Gibraltar Island	Meeting			25	
2001	9	13	Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	13			
2001	9	13	Lichtkoppler	Lake Co. Advisory Comm	Perry	Sea Grant update	25			
2001	9	13	Lucente	Northwest Ohio Reg. Econ. Dev. Assoc.	Toledo	NORED Mtg.	42			
2001	9	13-14	Hageman	Hilliard Station III - Hilliard	Gibraltar Island	Aquatic Science Workshop			40	
2001	9	14	Hageman	Greensprings - Greensprings	Gibraltar Island	Aquatic Science Workshop			28	
2001	9	14	Lucente	Greg Davis, NW District CD Specialist	Port Clinton	Tour and Mentoring	2	xx		xx
2001	9	14-16	Hageman	Sandusky Experimental Radio League	Gibraltar Island	Amateur Radio			7	
2001	9	15	Hageman	Owens Comm. Coll. - Toledo	Gibraltar Island	Aquatic Science Workshop			8	
2001	9	17	Hageman	Avon H.S. - Avon	Gibraltar Island	Aquatic Science Workshop			20	

Ohio Sea Grant Extension - 2001 1st, 2nd, 3rd 4th Quarter Combined Activities

2001	1	2	keith	osu extension city advisory committee	elyria	sea grant/lake erie update	28			
2001	9	17	Hageman	10th Put-in-Bay Underwater Clean Up	Put-in-Bay	Underwater Clean Up				175
2001	9	17	Hageman	Phosents Forever Board	Oak Harbor	Monthly Meeting				
2001	9	17	Lichtkoppler	Lake County Staff	Painesville	Inservise	14			
2001	9	17-18	Hageman	Brecksville H.S. - Brecksville	Gibraltar Island	Aquatic Science Workshop				18
2001	9	18	Hageman	Bataan Elem. - Port Clinton	Gibraltar Island	Aquatic Science Workshop				42
2001	9	18	Lichtkoppler	MARC/SAMP Committee	Mentor	SAMP Development	11			
2001	9	18	Snyder	Reuter & Keith	Port Clinton	Art. Reef Conf. Call	3			
2001	9	19	Hageman	Portage Elem. - Port Clinton	Gibraltar Island	Aquatic Science Workshop				44
2001	9	19-20	keith	smallmouth bass research	Iorain	volunteer instruction, tagging fish				6
2001	9	20	Hageman	Highland H.S. - Medina	Gibraltar Island	Aquatic Science Workshop				40
2001	9	21	Hageman	St. Mary of the Falls - Olmsted Falls	Gibraltar Island	Aquatic Science Workshop				32
2001	9	21	Hageman	McCormick M.S. - Huron	Gibraltar Island	Facilities Tour	120			
2001	9	21	Lucente	TMACOG	Toledo	Principles of Growth Strategies Mtg.	300			
2001	9	21-22	Hageman	Milford Jr. High - Milford	Gibraltar Island	Aquatic Science Workshop				73
2001	9	24	Hageman	Amherst Steele H.S. - Amherst	Gibraltar Island	Aquatic Science Workshop				60
2001	9	24	Hageman	West Holmes H.S. Millersburg	Gibraltar Island	Aquatic Science Workshop				14
2001	9	24	Hageman	BI-Centennial Committee	Put-in-Bay	Ohio's BI-Centennial Celebration Plan				11
2001	9	24	keith	ohio sea grant research proposals	columbus	review team, research proposals				x
2001	9	24-25	Lichtkoppler	OSU Ext. Dept. Prom. & Ternure Comm	Columbus	Candidate Review and Voting	12			
2001	9	24-25	Snyder	OSU Ext. Dept. Prom. & Ternure Comm	Columbus	Candidate Review and Voting	12			
2001	9	24-26	Hageman	Bowley M.S. - Bowley	Gibraltar Island	Aquatic Science Workshop				51
2001	9	24-26	Lucente	Brownfields 2001 Conference	Chicago, IL	Brownfields 2001 Conference				XX
2001	9	25	keith	ohio sea grant program office	columbus	develop new LENS display & text	3			
2001	9	26	Hageman	Comm. College Beaver Co. - Monacha, P	Gibraltar Island	Aquatic Science Workshop				
2001	9	26	keith	Iorain county visitors bureau board mtg	Iorain	board of directors, bureau planning	14			18
2001	9	27	Lichtkoppler	Grand River Association	Fairport Harbor	Lake Levels & River Dredging	9			
2001	9	27	Williams	Cuyahoga Rap	Cleveland	Remedial Action plan	30			
2001	9	27-28	Hageman	Dempsey M.S. - Delaware	Gibraltar Island	Aquatic Science Workshop				29
2001	9	28	Hageman	Black River M.S. - Sullivan	Gibraltar Island	Aquatic Science Workshop				17
2001	9	28	Hageman	NRE 810 Class	medina	Observe Aquatic Science Workshop				3
2001	9	28	keith	NWTF youth outdoors education day	medina	sampling education, fish cleaning	75			
2001	9	28	Snyder	Port Clinton Mayor, OH Div Watercraft	Port Clinton	Transient Marina Development	10			xx
2001	10	2	Lichtkoppler	OSU Extension Agents	Wooster, OH	P&T				6
2001	10	4	keith	stadium ant reefs, dive cooperatior mtg	cleveland	research procedures	4			
2001	10	8	Williams	Establishing a Watershed district	Aurora	Watershed district	5			
2001	10	10	keith	smallmouth bass research	Iorain	volunteer instruction, tagging fish				4
2001	10	10	Lichtkoppler	SWCD Banquet	Jefferson	Lake Erie Update	87			
2001	10	10	Lucente	Toledo Chamber of Commerce	Toledo	Leadership Training Mtg.	2	xxx		xxx
2001	10	10	Snyder	Ohio ANS Task Force	Columbus	Program Planning	10			
2001	10	10	Snyder	Leadership Ottawa County	Oak Harbor	Lake Erie Issues	22			
2001	10	11	Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management / Lake Erie	14			
2001	10	11	Lucente	Northwest Ohio Reg. Econ. Dev. Assoc.	Toledo	NORED Mtg.	42			
2001	10	11	Lucente	Maumee RAP	Toledo	Attended RAP Mtg.	30			
2001	10	11-14	Williams	BREI Board members	Memphis TN	Board retreat	15			
2001	10	12	keith	OSU Ag Faculty Council meeting	columbus	college, faculty, adm issues				x
2001	10	16	Lichtkoppler	MARC/SAMP Committee	Mentor-on-the-Lake	Watershed Planning				12
2001	10	16	Lichtkoppler	Steelhead anglers	Valley View	Steelhead Angler Survey	10			
2001	10	16	Snyder	Oak Harbor High School Science Club	Oak Harbor	Lake Erie's Changing Ecosystem	38			
2001	10	17	keith	Kelley's Island UP Planning Team	sandusky	underwater preserve planning mtg				18
2001	10	17	Lucente	Kelley's Island UP Planning Team	Sandusky	underwater preserve planning mtg	18			xx
2001	10	17	Snyder	Lake Erie Wing Watch	Sandusky	Program Planning	12			
2001	10	18	keith	Iorain county visitors bureau board mtg	Iorain	strategic planning retreat, lake issues	24			
2001	10	18	Lucente	OSU Extension	Columbus	Effective Teaching In-Service	25			
2001	10	18	Snyder	Portage River Basin Council	Bowling Green	Heritage Tourism	27			xx
2001	10	18	Williams	Leadership Board	Columbus	Board mtg.	15			
2001	10	18	Williams	BREI****	Columbus	Reniton & Expansion	3			

Ohio Sea Grant Extension - 2001 1st, 2nd, 3rd 4th Quarter Combined Activities

Year	Month	Day	Lead	Activity	Location	Notes	Participants	Cost	Other
2001	1	2	kelch	osu extension city advisory committee	elyria				
2001	10	19	Lucente	OSU Extension	Columbus	sea grant/lake erie update		28	
2001	10	19	Snyder	Port Clinton Core Group	Port Clinton	Effective Teaching In-Service		25	
2001	10	23	Lichtkoppler	Tourism Directors	Sawmill Creek	Transient Marina Planning	xx	8	
2001	10	23	Williams	S.S. Stein***	Geneva, Oh	Lake Erie Heritage Tourism		12	
2001	10	24	Lichtkoppler	ARP Project Committee	Ashtabula	Brownfield redevelopment		3	
2001	10	24	Lichtkoppler	ARP Coordinating Committee	Ashtabula	Dredging Project Design		12	
2001	10	24	Lichtkoppler	Citizens	Willowick	Project Management		14	
2001	10	24	Snyder	Lake Erie Buffer Team	Tiffin	Lake Erie Heritage Tourism	xx	14	
2001	10	24	Snyder	GLSGN ANS Conference Call	Port Clinton	HACCP Bait Project	xx	6	
2001	10	25	kelch	OSU Ag Faculty Fall Annual Mtg.	columbus	department and faculty updates/issues		10	x
2001	10	25	Lichtkoppler	KSU Students	Ashtabula	Lake Erie Programs		48	
2001	10	25	Lucente	Ohio Lake Erie Heritag Group	huron	Ohio Lake Erie Heritage Tourism Update		35	
2001	10	25	Snyder	Tourism Leaders	Huron	Heritage Tourism		61	
2001	10	25	Williams	Business Without Borders***	Euclid	R&E		35	
2001	10	27	Williams	Cuyahoga Rep	Pennsbula	Watershed district		28	
2001	10	30	kelch	Donkin for donuts	YMCA	Per networking mtg.		2	
2001	10	30	Lucente	smallmouth bass research	Ierain	volunteer instruction, tagging fish		70	
2001	10	30	Williams	Lucas County Constituents	Toledo	Northwest Ohio Brownfield Restoration			
2001	10	31	kelch	Bedford His TBz training**	Bedford His	Prep for TBZ			x
2001	11	1	kelch	osu mandatory inservice	wooster	directors update, meetings			x
2001	11	1	Lucente	NW District	elyria	sexual harassment telecast, meeting		40	
2001	11	1	Snyder	AKHison School Students	Findlay	Sexual Harassment Seminar		270	
2001	11	1	Snyder	Fremont Power Squadron	Fremont	Aquatic Life Day		33	
2001	11	2	Lucente	Colleges, Interested Parties	Toledo	Lake Erie Issues		300	
2001	11	5	Williams	North Central Ohio Reg. Econ. Dev. Assoc.	Toledo	National Water Crisis Conference		12	
2001	11	7	kelch	PET	Cleveland	NCOREDA Mtg.		16	
2001	11	7	Williams	LENSC youth program, invited talk	bay village	changes in lake erie		80	
2001	11	8	kelch	job policy sub-committee meeting	Cleveland	Private consultation		4	
2001	11	8	Lichtkoppler	OSU Extension Agents	Ierain	visitor bureau policy changes		4	6
2001	11	8	Lichtkoppler	Mentor Marsh Board	Mentor	P&T		13	
2001	11	8	Lucente	Northwest Ohio Reg. Econ. Dev. Assoc.	Toledo	NORED Mtg.		42	
2001	11	9	Williams	National TBz	Cleveland	Business Attraction		45	
2001	11	9	Williams	OSU CD Agents Mtg.	Columbus	CD Agent Mtg.		60	
2001	11	12	Williams	Joining forum	Cleveland	Educational forum		16	
2001	11	13	kelch	submerged lands advisory council mtg	vermillion	preserves, shipwreck buoys		53	x
2001	11	13	Lichtkoppler	Citizens& OSU Extension Agents	Columbus	Benefit Cost Applied economics		45	
2001	11	13	Lucente	NW District	Findlay	URS Training		45	
2001	11	13	Snyder	NW District	Findlay	URS Training		9	
2001	11	14	Lichtkoppler	ARP Project Committee	Cleveland	Programing 2002		13	
2001	11	14	Lichtkoppler	ARP Coordinating Committee	Ashtabula	Dredging Project Design		18	
2001	11	14	Lucente	Lucas County Residents	Oregon	Master Plan Mtg. For Fac. #3		28	
2001	11	15	kelch	Great Lakes Industrial Show L-x ctr	Cleveland	Business retention		64	
2001	11	15	Lichtkoppler	midview middle school 7 & 8 science	Valley View	changes in lake erie, exotic species		6	
2001	11	16	Snyder	NWD Extension Staff	Findlay	Citizen Survey		3	11
2001	11	16	Williams	R&E	Columbus	Office Conference		6	
2001	11	19	kelch	sea camp conference call	elyria	R&E		3	
2001	11	19	Lichtkoppler	Ashtabula Co Commissioners & Consult	Jefferson	sea camp 2002 planning, 2001 final		5	x
2001	11	19	Lucente	ODNR Grant Review Committee	Sandusky	Geneva St. Park Lodge		10	
2001	11	19	Williams	BREI Conference call	Cleveland	Grant Review Team Mtg.		16	
2001	11	19	Williams	Pet	Cleveland	Board mtg.		5	
2001	11	19	Williams	Brel Mkt committee conference call	Cleveland	Leadership		16	
2001	11	19	Williams		Cleveland	BREI business		5	

Ohio Sea Grant Extension - 2001 1st, 2nd, 3rd 4th Quarter Combined Activities

2001	1	2	keich	osu extension city advisory committee	elyria	sea grant/lake erie update	28			
2001	11	20	Lichtkoppler	MARC/SAMP Committee	Mentor-on-the-Lake	Watershed Planning	12			
2001	11	21	Snyder	Eastwood S.D. Teachers Inservice	Pemberville	Lake Erie's Changing Ecosystem	46			
2001	11	27	Lichtkoppler	OSU Extension Agents	Wooster, OH	URS Training				21
2001	11	27	Lucente	GLERL	Ann Arbor, MI	Internal Grant Review Mtg.				58
2001	11	27	Williams	Economic Development Network	Garfield Hts.	Tax Increment Financing	50			
2001	11	28	keich	lorain county visitors bureau board mtg	lorain	board of directors, bureau planning	14			
2001	11	28	Lichtkoppler	Agency Officials	lorain	EMA Nuke Disaster Training				46
2001	11	28	Lucente	Joe Kohen, Greg Davis	Toledo	Review of Urban Extension Program Mtg	3			
2001	11	28	Williams	Linda Highsmith Cleveland Port	Cleveland	Consultation	2			
2001	11	28	keich	midview brush school grade 6 science	grafion	changes in lake erie, exotic species	49			
2001	11	30	Lucente	Ann Moore, Toledo Area Chamber of Co	Toledo	Leadership Program Promotion Mtg.	5			
2001	11	30	Snyder	Port Clinton Core Group	Port Clinton	Public Meeting Planning	9			xx
2001	12	1	Snyder	Western Basin Charter Boat Ass'n	Monroe, MI	Lake Erie Fishery Issues	37			x
2001	12	3	keich	sea grant program office	columbus	meetings				
2001	12	3	Lucente	Allen County Extension Office	Allen County	Vita Writing Workshop	35			
2001	12	3	Williams	Extension Agents	Lima	Promotion & Tenure Workshop	27			
2001	12	3	Williams	Pet	Cleveland	Leadership	16			
2001	12	4	keich	OSU extension fall conference	columbus	extension updates, seminars, mtgs				x
2001	12	4	Lichtkoppler	Grand River Partners, Inc	Jefferson	Watershed Management	15			
2001	12	4	Lucente	OSU Extension	Columbus	OEAA Recognition Banquet				XX
2001	12	4	Snyder	OSU Extension	Columbus	OEAA Recognition Banquet				XX
2001	12	4	Williams	OSU Extension	Columbus	OEAA Recognition Banquet				XX
2001	12	5	Lichtkoppler	OSU Extension Agents	Columbus	Boat Title Data Project	2			
2001	12	5	Lucente	Toledo Area Chamber of Commerce	Toledo	Leadership Academy	4	xxx	xxx	
2001	12	5	Williams	Pacific Foods	Youngstown	Client Visit	3			
2001	12	5	Williams	Pet	Cleveland	Credit	16			
2001	12	5	Williams	Farmer Market	Cleveland	Client Visit	5			
2001	12	6	Lucente	Lucas County Extension Advisory Cab.	Toledo	Advisory Cabinet Meeting	15			xxx
2001	12	6	Williams	Governor regional advisory mtg	Cleveland	Educational forum				28
2001	12	7	Lucente	Toledo Area Chamber of Commerce	Toledo	Leadership Academy	8	xxx	xxx	
2001	12	8	Snyder	Tousaint River Property Owners	Oak Harbor	Spant Ordinance Study	31			
2001	12	8	Williams	Gossip in the Workplace	Toledo	Organizational annual mtg for REO CM	60			x
2001	12	11	keich	sea grant agents, directors meeting	elyria	sea grant planning for 2002				
2001	12	11	Lichtkoppler	Sea Grant Staff	Lorain	Sea Grant Programming	8			
2001	12	11	Lucente	Ohio Sea Grant Staff	Lorain	Sea Grant Staff Meeting	8			xxx
2001	12	11	Snyder	Sea grant Extension Staff	Elyria	Staff Meeting	8			xx
2001	12	12	Lichtkoppler	FarmLand Task Force	Painesville	Land Use Survey	7			xxx
2001	12	12	Lucente	Toledo Area Chamber of Commerce	Toledo	Leadership Academy	7	xxx	xxx	
2001	12	12	Snyder	Aquaculture Leaders	Bowling Green	Aquaculture Development	5			
2001	12	13	keich	central basin charterboat association	lorain	lake erie update	36			
2001	12	13	Lucente	Northwest Ohio Regional Econ. Dev. As	Toledo	NORED Mtg.	42			xxx
2001	12	13	Lucente	Maumee RAP	Toledo	RAP Mtg.	20			xxx
2001	12	14	Lucente	NW District	Findlay	District XMAS Party	22			xxx
2001	12	14	Snyder	NWD Extension Staff	Findlay	Office Conference				18
2001	12	17	Lucente	Bowling Green State Univ. Dept. of Spor	Bowling Green	Dr. Xie, Dr. Groves, Dr. Obentour Mtg.	4	xxx	xxx	
2001	12	18	Lichtkoppler	MARC/SAMP Committee	Mentor-on-the-Lake	Watershed Planning	14			
2001	12	18	Lucente	Chery Summit Bancroft Corridors Coalit	Toledo	CBS Mtg. (Neighborhood Development)	22			xxx
2001	12	19	Lichtkoppler	ARP Coordinating Committee	Ashtabula	Project Management				17
2001	12	19	Lucente	Kim Kocher, Sandusky County Reg. Pla	Toledo	Planning Mtg.	4			xxx
2001	12	19	Snyder	Port Clinton News-Herald interview	Port Clinton	Ice Fishing	57			
2001	12	20	keich	west cleveland walleye association	Cleveland	lake erie update				XX
2001	12	20	Lichtkoppler	FarmLand Task Force	Painesville	Land Use Survey	3			
2001	12	20	Lichtkoppler	Grand River Association	Fairport	Dredging Recreational Channel	8			
2001	12	20	Lucente	URS report	Toledo	URS Report	1	xxx	xxx	
2001	12	21	Lichtkoppler	Citizens	Mentor	Mentor Marsh & CMNH	5			
2001	12	21	Lucente	URS report	Toledo	URS Report	1	xxx	xxx	

Ohio Sea Grant Extension -- 2001 1st, 2nd, 3rd 4th Quarter Combined Activities

2001	1	2	kelch	osu extension city advisory committee	elyria	sea grant/lake erie update	28
2001	12	21	Snyder	Cleveland State Univ.	Port Clinton	Telephone Survey	2
2001	12	27	kelch	elyria lions club luncheon mtg speaker	elyria	lake erie water levels	43

Ohio Sea Grant Extension 2002 Combined Activities

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	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			x		
2002	1	4		Lucente	Ann Moore, Toledo Chamber of Comm	Toledo	Leadership Academy Planning mtg	5	x			
2002	1	7		Hageman	P-I-B Bi-Centennial Committee	Put-in-Bay	Ohio Bi-Centennial Plan Ctte.	15			8	
2002	1	7		Snyder	Lucas County Staff	Toledo	Aquaculture Development	8		x		
2002	1	8		Lucente	Cong. Marcy Kaptur, Ohio Aquac. Assn	Toledo	2002-03 extension plans				x	
2002	1	8		Lichtkoppler	Sea Grant Staff	Conference Call	GL Sea Grant Network Planning	8		x		
2002	1	8		Lucente	Toledo Local Govt. Leadership Academ	Conference Call	Leadership Academy Class	35	x			
2002	1	8		Snyder	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	9		Hageman	Sea Grant Staff	Put-in-Bay	Fisheries Extension Conf. Call				12	
2002	1	9		Lichtkoppler	Ohio Sea Grant Staff	Conference Call	Fisheries Extension Conf. Call	7		x		
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.Warrix	Cleveland	Fisheries Extension Conf. Call	2				
2002	1	10		Lucente	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	Marsh 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	1				
2002	1	11		Lucente	Ann Moore, Toledo Chamber of Comm	Toledo	Leadership Planning Mtg.	2		x		
2002	1	11		Snyder	Portage River Basin Council	Pemberville	Recreation & Wildlife Comm.	4	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	Pheasant's Forever, Ch. 291 Board	Oak Harbor	Monthly Board Mtg.				10	
2002	1	14		Williams	Don Bailey**	Cleveland	bus location retail					
2002	1	14		Williams	BREI Board mtg	Cleveland	conference call					
2002	1	15		Lucente	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			
2002	1	16		Lucente	kelley's 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 LP Planning Team Mtg.	Sandusky	Planning Mtg.	18				
2002	1	16		Williams	The Tile Shop**	Cleveland	bus. Location warehouse					
2002	1	17		Hageman	Article* Existing Business-My soap box for BREI	Put-in-Bay	Select Historical Photo's for Display				3	
2002	1	17		Lucente	Lake Erie Islands Historical Soc.	Toledo	News release for Western LE Waterfront Guide			x		XX
2002	1	17		Snyder	Toledo Blade	Findlay	Office Conference	12				
2002	1	17		Snyder	NW District Office Staff	Findlay	Spring Conference Planning			4		
2002	1	18	27	Lucente	Mid-America Boat Show	cleveland	Sea Grant Information Booth					XX
2002	1	18		Lucente	Dr. Smith's Internal Adv. Comm. Mtg.	columbus	directors internal adv. Comm.				x	
2002	1	18		Lucente	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery	74				
2002	1	18	27	Lichtkoppler	Mid-America Boat Show	Cleveland	Sea Grant Information Booth					XX
2002	1	18		Lucente	Jerry Thomas, NW District Director	Toledo	PFST Team Mtg.	2		x		
2002	1	19	20	Hageman	State Chapter, Pheasant's Forever	Marysville	State Chapter Meeting				75	
2002	1	19		Lucente	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery	69				XX
2002	1	19	20	Snyder	Mid-American Boat Show	Cleveland	Sea Grant Information Booth					
2002	1	20		Lucente	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery	56				
2002	1	21		Lucente	presentation:Mid-America Boat Show	cleveland	fish consumption advisories	48				
2002	1	21		Williams	Aurora Watershed Mtg	Aurora	Watershed	23				
2002	1	21		Williams	Mid-American Boat Show	Cleveland	Sea Grant Information Booth					XX
2002	1	22		Lucente	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery	51				

Ohio Sea Grant Extension 2002 Combined Activities

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTING No.	CHAIRING	ORGANIZE 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 Coun	Port Clinton	Tourism BR&E Mtg.	12		x		
2002	1	22		Lucente	Toledo Local Govt. Leadership Academ	Toledo	Leadership Academy Class	35	x	x		
2002	1	22		Snyder	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		kelch	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery	81				
2002	1	23		Snyder	Lake Erie Circle Tour	Elyria	Tourism Director Interviews	34		15		
2002	1	24		kelch	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery					
2002	1	24		Lucente	Mid-American Boat Show	Cleveland	Sea Grant Information Booth					XX
2002	1	24		Snyder	Portage River Basin Council	Bowling Green	Council Meeting	28				
2002	1	24		Williams	Cluster Group	Strongsville	Business Retention	43				
2002	1	25		kelch	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery	63				
2002	1	25		Lucente	Greg Davis, NW District Specialist, CD	Toledo	PPST Team Mtg.	2		x		
2002	1	26		kelch	presentation:Mid-America Boat Show	cleveland	fish consumption advisories	46				
2002	1	26		kelch	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery	62				
2002	1	26		Lucente	Cleveland National Boat Show	Cleveland	Work Sea Grant Booth					XX
2002	1	27		kelch	presentation:Mid-America Boat Show	cleveland	lake levels, steelhead fishery	26				
2002	1	27		Snyder	Mid-American Boat Show	Cleveland	Sea Grant Information Booth					XX
2002	1	29		Lichtkoppler	OSU Extension Staff	Conference Call	Personnel Evaluation	3				
2002	1	29		Lucente	Toledo Local Govt. Leadership Academ	Toledo	Leadership Academy Class	35	x	x		
2002	1	29		Williams	Economic Development Network Mtg		Business Retention	50				
2002	1	29		Williams	Key Concepts	Columbus	Community Dev	50				
2002	1	30		kelch	Ipswich cv. visitors bureau board mtg.	Ipswich	bureau planning, direction				x	
2002	1	30		Lucente	Slate CD Agents	Columbus	Key Concepts In-Service	38				
2002	1	30		Snyder	NW District Committee	Findlay	Spring Conference Planning			4		
2002	1	30		Williams	Business Excel team mtg		management excel	3				
2002	1	30		Williams	Key Concepts	Columbus	Community Dev	50				
2002	1	31		Hageman	Great Lakes Rech Vessel Coords	Cleveland	Rsch Vessel Coord Workshop				60	
2002	1	31		Williams	Business Excel team	Cleveland	5 function	17				
2002	2	1		Hageman	Ohio Wildlife Mgmt. Assoc. Mtg.	Columbus	Ohio Chapter American Fisheries					
2002	2	4		Lichtkoppler	OSU Extension Staff	Painesville	Office Conference	14				400
2002	2	4		Lucente	Lucas County Staff	Toledo	Lucas County Staff Mtg.	15		x		
2002	2	4		Williams	OEDC TBZ	Cleveland	Business Retention	8				
2002	2	4		Williams	PET	Cleveland	Pre Employment	43				
2002	2	5		kelch	Ipswich cv. visitors bureau board mtg.	Ipswich	planning sub-committee mtg	12	x	x		
2002	2	5		kelch	sea grant advisory committee meeting	elyria	updates, planning	23	x	x		
2002	2	5		Lucente	Toledo Local Govt. Leadership Academ	Toledo	Leadership Academy Class	35	x	x		
2002	2	5		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Planning	12				
2002	2	5		Williams	The Tile Shop	Ohio	Business Attraction	5				
2002	2	6		kelch	Ohio Sea Grant Staff	cleveland	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	Ipswich	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	12				
2002	2	8		Lichtkoppler	OSU Extension Staff	Conference Call	Personnel Evaluation	3				
2002	2	8		Lucente	Toledo Sea Grant Advisory Committee	Toledo	Agenda and Mtg. Prep.	2	x			
2002	2	8		Snyder	Lake Erie Scientists	Tiffin	Lake Erie Mayfly Metrics Wkshp	35				
2002	2	9		kelch	fin-leather-fur outfitters sports store	ashland	steelhead angling presentations	49				
2002	2	9		Lichtkoppler	Citizens, Anglers, Boaters	Cleveland	Lake Erie Ecology	45				
2002	2	9		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Public Hearing	18		x		
2002	2	11	12	kelch	great lakes sg network fisheries mtg	ann arbor, michigan	network fisheries planning				x	
2002	2	11	12	Lichtkoppler	Sea Grant Ext. Program Leaders	Ann Arbor, MI	Fisheries Extension	25				
2002	2	11		Lucente	Ann Moore, Toledo Chamber of Comm	Toledo	Leadership Planning Mtg.	4	x	x		
2002	2	11		Lucente	Lake Erie Charter Boat Association	Port Clinton	Presented update on West Basin	32				
2002	2	11		Snyder	Lake Erie Charter Boat Ass'n Board	Port Clinton	Artificial Reef Development	17				

Ohio Sea Grant Extension 2002 Combined Activities

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTING No.	CHAIRING	ORGANIZING No.	PARTICIP./No.	MASS MEDIA
2002	2	11		Williams	PET	Cleveland	Money 2000	30				
2002	2	12		kelch	submerged lands adv comm mtg	Iorain	shipwreck buoys, w/w preserve	15				
2002	2	12		Lucente	Toledo Local Govt. Leadership Academ	Toledo	Leadership Academy Class	35	x	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		x		
2002	2	14		kelch	west cleveland walleye association	cleveland	steelhead update and angling	48				
2002	2	14		Lichtkoppler	ODNR	Conference Call	Soil & Water Grants Review	5				
2002	2	14		Lichtkoppler	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	Lichtkoppler	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				x	
2002	2	18		kelch	Iorain city visitors bureau board mtg.	Iorain	evaluation/planning sub-comm				x	
2002	2	18		Lichtkoppler	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 Academ	Toledo	Leadership Academy Class	35	x	x		
2002	2	19		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Planning	13		x		
2002	2	19		Williams	Bessener Rd. Ext.	Port Clinton	Extending a road	23				
2002	2	20		kelch	GLERL seminar series for scientists	Cleveland	presentation: artificial reefs	35				
2002	2	20		Snyder	Firelands Tourist Council	ann arbor, michigan		23				
2002	2	20		Williams	PET	Sandusky	Lake Erie Fisheries	25				
2002	2	20		Lichtkoppler	Project Committee ARP	Cleveland	Money 2000	25				
2002	2	21		Lichtkoppler	Coordinating Committee ARP	Ashabula	River Dredging	15				
2002	2	21		Lichtkoppler	Toledo Sea Grant Advisory Committee	Ashabula	Project Coordination	12				
2002	2	21		Lucente	Toledo Sea Grant Advisory Committee	Toledo	Advisory Committee Mtg.	12	x	x		
2002	2	21		Snyder	Iorain city extension office	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. Nuis. Species Conf.	Washington, D.C.	HACCP Training, Presentation	65		x		
2002	2	24		Lucente	Community Res. Econ. Dev. Conf./Orla	Orlando, FL	Presented Local Govt. Leadership	320				
2002	2	25		kelch	WFOEL radio-elyria interview	elyria	lake levels					XX
2002	2	25		Lichtkoppler	Steve Madewell	Painesville	Steelhead Anglers Survey	2				
2002	2	25		Lichtkoppler	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	Osu 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	Lichtkoppler	Scientists, Extension Agents, Citizens	Buffalo, NY	Butliss 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				
2002	3	3	6	Williams	SAE	Detroit	Trade Show		x	x		
2002	3	4		Lucente	Lucas County Staff	Toledo	Lucas County Staff mtg.	15				
2002	3	5		Lichtkoppler	Grand River Partnership	Jefferson	Watershed Protection	22				
2002	3	5		Lucente	Toledo Local Govt. Leadership Academ	Toledo	Leadership Academy Class	35	x	x		
2002	3	6		kelch	ODNR/DOW hunter safety class	elyria	teach home study: water safety	14				
2002	3	6		Lucente	Putnam County Leadership Class	Ottawa	Leadership Academy Class	24		x		
2002	3	7		Lichtkoppler	N Coast Charter Captains	Grand River	Lake Erie Fisheries	46		x		
2002	3	9		Hageman	Pheasants Forever, Ch. 291 Members	Sandusky	Annual Fundraiser Banquet				415	
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 Academ	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				
2002	3	13		kelch	WOBEL radio, oberlin	oberlin	fish contaminants, lake levels					XX
2002	3	13		kelch	submerged lands adv comm mtg	lorain	shipwreck buoys, t/w issues	12				
2002	3	13		Williams	CMHA Circle of Friend	Cleveland	Resource funding	16				
2002	3	14		Lichtkoppler	Mentor Marsh Board	Cleveland	Marsh Management	13				
2002	3	14		Lucente	First Energy, Port Clinton reps, Ottawa	Mentor	Port Clinton/Ottawa Co. Tourism R	6	x	x		
2002	3	14		Snyder	GLSGN HACCP Baifish Conf. Call	Port Clinton	HACCP Program Development	7				
2002	3	15		Snyder	National Public Radio Interview	Port Clinton	Majify Composting				x	
2002	3	16	24	kelch	American Canadian Sport Show	cleveland	sea grant exhibit, 1on1 clientele					XX
2002	3	16	24	Lichtkoppler	American Canadian Sport Show	cleveland	Sea Grant Information Booth					XX
2002	3	16	20	Snyder	Great Lakes Sea Grant Program Leader	Baton Rouge, LA	Assembly Meeting	50				
2002	3	17	21	Williams	National Mtg Week	Chicago	Business Attraction					
2002	3	18		Hageman	Pheasant 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				
2002	3	19		Lucente	American Canadian Sport Show	Cleveland	Sea Grant Information Booth					XX
2002	3	20		kelch	American Canadian Sport Show	cleveland	seminar: fish consumption safety	46				
2002	3	20		kelch	American Canadian Sport Show	cleveland	seminar: lake levels	63				
2002	3	20		kelch	Iorain city visitors bureau board mtg.	Iorain	angling tourism, planning	16				
2002	3	20		Lucente	Slate CD Agent Mtg.	Columbus	Slate CD Agent In-Service	23				
2002	3	21		Lucente	Lucas County Extension Advisory Cabin	Toledo	Advisory Cabinet Mtg.	20				XX
2002	3	22	24	Snyder	American Canadian Sport Show	Cleveland	Sea Grant Information Booth					
2002	3	23		kelch	Michigan SG Forum: Cabela's	dumdee, michigan	seminar:lake erie fisheryupdates	135				
2002	3	23		Lucente	Michigan SG Forum: Cabela's	dumdee, michigan	local radio interview: Lake Erie					XX
2002	3	23		Lucente	American Canadian Sport Show	Cleveland	Sea Grant Information Booth					XX
2002	3	25		Lucente	Ann Moore, Toledo Chamber of Comm	Toledo	Leadership Planning Mtg.	2	x	x		
2002	3	25		Snyder	GLSGN HACCP Baifish Conf. Call	Port Clinton	HACCP Program Development	6				
2002	3	26		Lichtkoppler	Great Lakes Fishery Commission	Buffalo, NY	Sea Lamprey / Happersfield Dam	67				
2002	3	27	27	Lucente	Kelley's Island UP Planning Team	Sandusky	Planning Team Mtg.	18				
2002	3	27		Snyder	Coastal Ohio Tourism Board	Elyria	Board Meeting	12				
2002	3	27		Snyder	Corps, Engineers, Carrol: Twp Resident	Oak Harbor	Spent Ordinance Clean-up	40				
2002	3	28		Lucente	CBS Comiders Coalition	Toledo	Neighborhood Planning	22				
2002	3	28		Williams	Premix**	Ashtabula	Business Retention	3				
2002	4	2		Lucente	NW District Spring Conference	Findlay	Spring Planning Conference	50				
2002	4	4		Lucente	Linda Koss, Lucas County Library	Toledo	Grant Seekers Seminar Planning	2	x	x		
2002	4	8		Lichtkoppler	OSU Extension Staff	Columbus	Promotion & Tenure Committee	10				
2002	4	8	9	Snyder	Dept. of Extension Prom&Tenure Comm	Columbus	Candidate Review	x	10	x		
2002	4	9		Snyder	GLSGN HACCP Baifish Conf. Call	Port Clinton	HACCP Program Development	6				
2002	4	9		Lucente	Toledo Local Govt. Leadership Academ	Toledo	Graduation Event				40	
2002	4	9		kelch	Kelleys island w/w preserve committee	Toledo	Leadership Academy Graduation	65	x	x		XX
2002	4	10		Lichtkoppler	Farmiland Preservation Taskforce	sandusky	w/w preserve and pub hearings				x	
2002	4	11		Lichtkoppler	Mentor Marsh Board	Painesville	Land Use Survey	14				
2002	4	11		Lichtkoppler	Citizens	Mentor	Marsh Management	11				
2002	4	11		Snyder	Cleveland Plain Dealer Interview	Cleveland	Lake Erie Issues	6				
2002	4	11		Lucente	NW OH Regional Economic Developme	Port Clinton	Lake Erie Tourism Resources					XX
2002	4	11		Lucente	Maumee RAP	Toledo	NORED Mtg.	45				
2002	4	11		Lucente	Maumee RAP	Toledo	RAP Mtg.	39				

Ohio Sea Grant Extension 2002 Combined Activities

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTING No.	CHAIRING	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
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 w/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	2	x	x	5	
2002	4	15		Lucente	John Conglose, OSU Extension	Toledo	Mentoring Activities	12				
2002	4	16		Lichtkoppler	Mentor Area Regional Coalition	Mentor	SAMP Planning	14		x		
2002	4	16		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Planning	14		x		
2002	4	16		Hageman	Kenwood Elementary I	Gibraltar Island	Aquatic Science Workshop	15		37		
2002	4	16		Hageman	Ohio Chapter American Fisheries Soc.	Hebron, Ohio	Executive Committee Mtg	2	x	x		
2002	4	16		Lucente	Greg Davis, OSU Extension	Toledo	SPSS Database Information Input	24	x	x		
2002	4	17		Hageman	Ian Black - Northwood HS	Port Clinton	Business Retention & Expansion P					
2002	4	17		kelch	Lorain Cty. Bass Busters Club	Gibraltar Island	Shadow Student	19				
2002	4	18	19	Hageman	Gibsonburg HS	elyria	smallmouth update, tagging					
2002	4	18	19	Hageman	Jonathan Alders HS	Gibraltar Island	Aquatic Science Workshop			12		
2002	4	18		Lichtkoppler	Lake Erie Coastal Ohio Board	Gibraltar Island	Aquatic Science Workshop	24		9		
2002	4	18		Lichtkoppler	Fairport Harbor Rod & Reel	Vermilion	LE Tourism	45				
2002	4	18	21	Hageman	Coastal Ohio Tourism Board	Fairport Harbor	Lake Erie Issues	22				
2002	4	18		Snyder	Wynford HS	Vermilion	Board Meeting	3		23		
2002	4	18		Hageman	Tetra Tech Inc.	Put-In-Bay	Aquatic Science Workshop	3		x		
2002	4	18		Lucente	Fred Snyder & Dave Kelch, OSU Sea G	Toledo	Davis-Besse Info	3	x	x		
2002	4	18		kelch	OSG conference call	elyria	West. Basin Artificial Reef Conf. C	9			x	
2002	4	19		Lichtkoppler	Citizens & Developers	Mentor	Wetland Mitigation	7				
2002	4	19		Lichtkoppler	ODNR, Lake Erie Office	Conference Call	LE Protection Fund Grant Review	38				
2002	4	20	21	Hageman	Kenwood Elementary II	Gibraltar Island	Aquatic Science Workshop	25				
2002	4	20		kelch	Friends of Stone Lab	ashland	Work Weekend	55				
2002	4	23	24	Hageman	fin-feather-4r outfitters sports store	Gibraltar Island	lake erie angling update seminar			9		
2002	4	23	24	Hageman	Kelley's Island School	Gibraltar Island	Aquatic Science Workshop			35		
2002	4	23		kelch	Jackson MS	lorain	shipwreck buoys, w/w preserve	13				
2002	4	24		Lichtkoppler	submerged lands adv comm mtg	Ashabula	River Dredging	14				
2002	4	24		Lichtkoppler	Coordinating Committee ARP	Ashabula	Project Coordination	2	x	x		
2002	4	24		Lucente	Greg Davis, OSU Extension	Findlay	SPSS Database Information Input	19				
2002	4	24		kelch	lorain city visitors bureau board mtg.	lorain	planning, relocation, tourism	41		70		
2002	4	25	26	Hageman	Sewickley Academy/MS	Gibraltar Island	Aquatic Science Workshop			5		
2002	4	25		Hageman	Chagrin River Salmon Association	Eastlake	Lake Erie Fisheries	4				
2002	4	25		Hageman	Shadows from A.I. Root MS	Gibraltar Island	Shadow Students	120				
2002	4	25		Hageman	Mallory Hageman	Gibraltar Island	Take Daughter to Work Day	14				
2002	4	25		Lucente	University of Toledo	Toledo	Brownfields Conference	100		5		
2002	4	26	27	Hageman	north coast bass anglers club	avon lake	smallmouth & lake levels	45				
2002	4	26		Hageman	Kent State University	Gibraltar Island	Research Trip	12				
2002	4	26		Lichtkoppler	OSU Extension Staff	Wooster	OSU Ext. NE Dist. Sp. Conference	120				
2002	4	26		Snyder	Portage Elementary School	Port Clinton	Youth Fishing Program	12				
2002	4	26		Williams	University of Toledo	Toledo	Brownfields Conference	2				
2002	4	26		Williams	OEDC TBZ	Columbus	Business Retention	2				
2002	4	26		Williams	Extension program	Medina	Company visit	2				
2002	4	26		kelch	oces ne district spring conference	brunswick	extension & university updates	10		44	x	
2002	4	29	30	Hageman	Mills School I (MS)	Gibraltar Island	Aquatic Science Workshop	10				
2002	4	29		Lichtkoppler	Congressman Steven LaTourrette	Painesville	Wetland Mitigation & USACE	10				
2002	4	29		Lichtkoppler	Sea Grant Ext. Program leaders	Conference Call	Fisheries Extension	8				
2002	4	29		Snyder	GLSGN Program Leaders Conf. Call	Port Clinton	Activity Planning	34				
2002	4	29		Hageman	Fulton Co. Pond Owners	Archbold	Farm Pond Management	5				
2002	4	29		Hageman	Kelly Krupa	Columbus	Ichthyoplankton ID	5				
2002	4	30	1	Hageman	Mills School II (MS)	Gibraltar Island	Aquatic Science Workshop	12		48	x	
2002	4	30		Lichtkoppler	Ohio Sea Grant Staff	Columbus	Staff Conference					

Ohio Sea Grant Extension 2002 Combined Activities

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTING NO.	CHAIR/NO.	ORGANIZE/NO.	PARTICIP/NO.	MASS MEDIA
2002	4	30		Snyder	Ohio Sea Grant Staff	Columbus	Staff Meeting	9			x	
2002	4	30		Snyder	Erie Co. OSU Alumni	Huron	OSU Lake Erie Program	96				
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	5	1	2	Hageman	Mills 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			45		
2002	5	2	3	Hageman	Mills School IV (MS)	Gibraltar Island	Aquatic Science Workshop	67				
2002	5	2	5	Snyder	Outdoor Writers of Ohio, Inc.	Shawnee State Park	Annual Conference	5	x			
2002	5	2		Lucente	Toledo Chamber of Commerce	Toledo	Nuts and Bolts of Running a Camp	10				
2002	5	2		Williams	Business Owners	Cleveland	Maximize the value of your Business					
2002	5	3	5	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	5	Hageman	Ohio Staters	Gibraltar Island	Aquatic Science Workshop			15		
2002	5	6	7	Hageman	Mills School V (MS)	Gibraltar Island	Aquatic Science Workshop			38		
2002	5	6	11	Lucente	Business Retention & Expansion Intern	Memphis, TN	BREI Professional Certification C	120				
2002	5	7	8	Hageman	Mills School VI (MS)	Gibraltar Island	Aquatic Science Workshop			44		
2002	5	7		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Development	14			x	
2002	5	7		Hageman	Elderhostel I	Gibraltar Island	Aquatic Science Workshop			31		
2002	5	7		kelch	Iorain city swed/extension pond clinic	Elyria	barley straw, algae control	95				
2002	5	8	9	Hageman	Mills School VII (MS)	Gibraltar Island	Aquatic Science Workshop			48		
2002	5	8	13	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				x
2002	5	8		kelch	OSU Ag Faculty Council Mtg	Columbus	faculty issues/concerns			62		
2002	5	9	10	Hageman	Miamisburg MS	Gibraltar Island	Aquatic Science Workshop					
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 w/w preserve committee	sandusky (p.m.)	uw preserve planning	47				x
2002	5	9		kelch	west cleveland walleye association	cleveland	fishery updates			28		
2002	5	10		Hageman	St. Ignatius of Antioch ES	Gibraltar Island	Aquatic Science Workshop					
2002	5	10		Williams	Communication report	Memphis	Annual Conference	35				
2002	5	10		Williams	Tourism & Retail R&E	Memphis	Annual Conference	32				
2002	5	13	14	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	15	Lichtkoppler	Waterways Adventure	Ashtabula	Exotic Species in Lake Erie	90				
2002	5	14	15	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	16	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			19		
2002	5	15		Lucente	Greg Davis, OSU Extension	Findlay	SPSS Data Info.	2	x			
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	17	Hageman	Perry/McCord MS	Gibraltar Island	Aquatic Science Workshop			66		
2002	5	16		Snyder	NW District Office Staff	Findlay	Office Conference	12				
2002	5	16		kelch	north coast bass anglers club	avon lake	smallmouth bass tagging	18				
2002	5	17		Lichtkoppler	Lake Erie Coastal Ohio Ex Comm	Elyria	LE Tourism	8				

Ohio Sea Grant Extension 2002 Combined Activities

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTING NO.	CHAIR/NO.	ORGANIZE/NO.	PARTICIP. NO.	MASS MEDIA
2002	5	18		Hageman	Girl Scout Troop #635	Gibraltar Island	Aquatic Science Workshop				17	
2002	5	20	21	Hageman	Nordonia 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	Brei 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 Management	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	Olmsied 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	Ashtabula	River Dredging	13				
2002	5	22		Lichtkoppler	Coordinating Committee ARP	Ashtabula	Project Coordination	16				
2002	5	22		Hageman	Springfield South HS	Gibraltar Island	Aquatic Science Workshop				12	
2002	5	22		Hageman	Iorain city visitors bureau board mtg.	Iorain	planning, relocation, tourism				x	
2002	5	23	24	Hageman	Erwine MS	Gibraltar Island	Aquatic Science Workshop					
2002	5	23	24	Hageman	Englewood ES	Gibraltar Island	Aquatic Science Workshop				45	
2002	5	23		Lichtkoppler	NE Ohio SG Committee	Unionville	Committee Members	6			15	
2002	5	23		Lichtkoppler	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				
2002	5	24		Hageman	Division of Wildlife	Sandusky	Cooperation Mtg				11	
2002	5	24		kelch	odm/dow & osg meeting	sandusky	updates, planning					
2002	5	25		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh House Improvements	9			x	
2002	5	28	29	Hageman	Buckeye Valley MS	Gibraltar Island	Aquatic Science Workshop					
2002	5	28		Lichtkoppler	Personnel Committee ARP	Ashtabula	Candidate Search	5			42	
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					
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		Lucente	Toledo Chamber of Commerce	Toledo	Local Govt. Leadership Academy	15	x		x	
2002	5	29		Lucente	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		Lucente	NW OH Sea Grant Advisory Committee	Sandusky	Advisory Committee Mtg.	16				
2002	5	31		Williams	Can Gov. financing program help your b	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		Lucente	Business Retention & Expansion Internat	Toledo	Conference Call	20	x		x	
2002	5	31		Lucente	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	6	1	8	Lichtkoppler	Research, Extension Agents	Iorain	IAGLR Extension Seminar	14				
2002	6	1		Hageman	William Co Watershed Ecol	Winnipeg Canada	Facilities Tour	35				
2002	6	3		Hageman	Lorain Co Extension Office	Gibraltar Island	Aquatic Science Workshop				15	
2002	6	3		Hageman	OSU Lima-Reaching out to Youth	Gibraltar Island	Aquatic Science Workshop				23	
2002	6	3		Lucente	Don Lacy, OSU Extension	Gibraltar Island	Conference Call	2			16	
2002	6	3		Williams	PET	Toledo	PET	20			x	
2002	6	3		kelch	n.e. district fcs agents retreat/mtg	Cleveland	presentation: fish consumption	37				
2002	6	4		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Development	13			x	

Ohio Sea Grant Extension 2002 Combined Activities

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2002	6	4		Hageman keith	Laurel ES	Gibraltar Island lorain	Aquatic Science Workshop final planning: outdoor writers	12		45		
2002	6	5		Snyder	levy/cbcb mfg. for outdoor writers	Port Clinton	Mayfly Outlook					
2002	6	5		Hageman keith	Whiteford MS	Gibraltar Island	Aquatic Science Workshop			79		XX
2002	6	5		Hageman keith	nwrff-women in the outdoors org.	elyria	fishing, fish handling/preparation	22				
2002	6	7		Hageman Snyder	OSU A.B.E. Cir	Gibraltar Island	Conference			21		
2002	6	6		Hageman	Ohio Envirothon Students	Gibraltar Island	Aquatic Nuisance Species	12				
2002	6	6		Hageman keith	Grizzel MS	Gibraltar Island	Aquatic Science Workshop			61		
2002	6	7		Hageman	cleveland fishing association club	Catawba Island	art reefs side scan sonar research	63				
2002	6	7		Hageman	Columbus Athletic Club	Port Clinton	Judge Walleye Tournament	90				
2002	6	9	15	Lucente	Fred Snyder, OSU Sea Grant	Gibraltar Island	Mentoring Activities	2	x	x		
2002	6	10	12	Hageman	Early Offering EEO 125 w01	Gibraltar Island	Orientation			16		
2002	6	10		Hageman	The Nature Conservancy	Gibraltar Island	Conference			25		
2002	6	11		Lucente	Greg Davis, OSU Extension	Toledo	Leadership Web Site Development	2	x	x		
2002	6	12		Lichtkoppler	cleveland marine towing & salvage	cleveland	art reef video diver training	8		x		
2002	6	12		Snyder	Ohio Sea Grant Staff	Conference Call	SG Planning	8				
2002	6	12		Hageman	Sea Grant Staff	Port Clinton	Admin. Conference Call	7				
2002	6	12		Lucente	Girl Scout Troop #60	Gibraltar Island	Aquatic Science Workshop	8		8		
2002	6	12		keith	Ohio Sea Grant Conference Call	Toledo	Sea Grant Staff Conference Call	8				
2002	6	13		Lichtkoppler	OSG conference call	elyria	sea grant/legis day planning				x	
2002	6	13		Snyder	Mentor Marsh Board	Mentor	Marsh Management	14				
2002	6	13		Hageman	WOSULFM Interview	Fremont	Lake Erie Fisheries					
2002	6	13		Lucente	Huron Co SWCD	Gibraltar Island	Aquatic Science Workshop			33		XX
2002	6	13		keith	NW Ohio Regional Econ. Dev. Associa	Toledo	NORED Mtg.	42				
2002	6	14		Lucente	westlake sportsman club	westlake	fish consumption advisories	59				
2002	6	15		Hageman	Business Retention and Expansion Intel	Toledo	Conference Call	12			x	
2002	6	16		Lucente	Issac waton league handicap day	medina	handicap fishing, cleaning, prep	89				
2002	6	17		Hageman	GEO 107, EEO 126, NAT 694w02	Gibraltar Island	Orientation	51				
2002	6	17		Williams	Coastal Businesses in Lucas County	Toledo	Deliver waterfront guides to busin	20		x		
2002	6	18		Lichtkoppler	BREI Conference call	Cleveland	Brel Br. Mtg	15				
2002	6	18		Snyder	Mentor Area Regional Coalition	Mentor	SAMP Planning	8				
2002	6	18		Hageman	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Development	17			x	
2002	6	18		Williams	Fostoria Focus Newspaper Interview	Port Clinton	Lake Erie Water Levels					
2002	6	18		Lichtkoppler	Stone Lab Faculty & Students	Gibraltar Island	Lisa Birchler "Teacher Methods"			24		XX
2002	6	18		keith	Future form	Conference call		6				
2002	6	19		Lichtkoppler	lorain city visitors bureau board mtg.	lorain	policy sub committee mtg	8				
2002	6	19		Snyder	Ashtabula Co. Ext. Adv. Committee	Jefferson	Sea Grant Update	12				
2002	6	19		Lucente	NW District Office Staff	Findlay	Staff Meeting	14				
2002	6	19		keith	Sea Grant, LECBA, ODNR/DOW, WSC	Port Clinton	Western Basin Artificial Reef Mtg.	10			x	
2002	6	19		Lichtkoppler	sea camp conference call	elyria	final sea camp planning	7				
2002	6	20		Hageman	odnr/dow & osg meeting	port clinton	western basin reef mtg	35				
2002	6	20		keith	Citizens	Mentor	Lake Erie Coastal Ohio	18		54		
2002	6	20		Hageman	Visitors for Guest Lecture	Gibraltar Island	Chris Jones, OEPA "Envir. Issues					
2002	6	21		Lucente	lorain city bass busters club	grafton	smallmouth update, tagging					
2002	6	23		Hageman	Toledo Blade Interview	Port Clinton	Mayfly Outlook					
2002	6	23		Lichtkoppler	Term 1	Gibraltar Island	Orientation			42		XX
2002	6	24		Snyder	Nat 694w03, EEO 698	Gibraltar Island	Orientation			11		
2002	6	24		Hageman	Sea Grant Staff	Conference Call	Steelhead Survey	4	x			
2002	6	24		Lucente	Port Clinton News Herald Interview	Port Clinton	Mayfly Outlook	2				XX
2002	6	24		keith	osg conference call-steelhead survey	Toledo	Set up for poster session at ALE C			x		
2002	6	25		Hageman	Stone Lab Faculty & Students	elyria	planning for steelhead survey				x	
2002	6	25		keith	uscae harbor planning meeting	Gibraltar Island	Gustav Verdenber "Sojourns in Na			55		
2002	6	26		Lichtkoppler	Project Committee ARP	lorain	invited meeting-harbor planning				x	
2002	6	26		Lichtkoppler	Coordinating Committee ARP	Ashtabula	River Dredging	21				
2002	6	26		Hageman	Division of Wildlife, Specialists	Ashtabula	Project Coordination	18				
2002	6	26		keith	lorain city visitors bureau board mtg.	Gibraltar Island	Facilities Tour	9				
2002	6	26				lorain	tourism, building relocation, plans				x	

Ohio Sea Grant Extension 2002 Combined Activities

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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	GLSGN Fisheries Ext. Group	Cleveland	Proposal Planning	15				
2002	6	27		Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. Jane Forsyth "Lake Erie Geoid"					
2002	6	28		Hageman	OSU Office of Research	Stone Laboratory	Lab Annual Protocol Inspection/Tr			60		
2002	6	29		Snyder	Kelleys Island Audubon Club	Kelleys Island	Lake Erie Issues Overview	46			30	
2002	6	30		Hageman	EEO 522 & EEO 125	Gibraltar Island	Orientation	6		22		
2002	7	1	5	kelch	19th Annual Ohio 4-H Sea Camp	kelleys island	teaching youth about Lake Erie	90				
2002	7	1		Lucente	19th Annual Ohio 4-H Sea Camp	kelleys island	lure making, fish I.D.,	90				
2002	7	1		Snyder	NW District Office	Findlay	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				x	
2002	7	2		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Ken Krieger, "Mayflies"				42	
2002	7	2		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Development	16			55	
2002	7	3		kelch	18th Annual Ohio 4-H Sea Camp	kelleys island	boat angling, fish cleaning, prep	90			x	
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"				86	
2002	7	7		Hageman	EEO 110	Gibraltar Island	Orientation	7				
2002	7	8		Lichtkoppler	OSUE Lake Co Staff	Gibraltar Island	Diversity Audit	12				
2002	7	8		kelch	OSG conference call	Painesville	Diversity Audit					
2002	7	8		Snyder	Sea Grant Staff	Elyria	OSG planning					x
2002	7	8		Snyder	County Officials	Port Clinton	Program Conference Call	6				
2002	7	9		Lichtkoppler	Bowling Green State University-I	Grand River	Coastal Development	34				
2002	7	9		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Summer Governor's Institute				54	
2002	7	9		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Paul Genzman, "MS Exit Interview"				25	
2002	7	9		Williams	NSL Analytical**	Valley View	Business Development	4				
2002	7	9		Williams	Cuyahoga RAP social Committee	Penninsula	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. Associat	Toledo	NORED Mfg.	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				x	
2002	7	12		Hageman	Dr. Brett Nichols	Peach Pl. Rsch Lab	Fish Parasite Rsch Project				10	
2002	7	12		Williams	Communication report	Conference call	communication committee	5			3	
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	EEOB 692	Peach Pl. Rsch Lab	Ichthyoplankton ID Workshop	14			x	
2002	7	15		Hageman	Ottawa Co. Commissioners	Gibraltar Island	Facilities Tour				10	
2002	7	15		Williams	BREI Conference call	Conference call	Brei Br. Mig	15				
2002	7	15		Snyder	Nancy Recker, Allen Co. Ext.	Lima	Promotion & Tenure	3				
2002	7	16		kelch	advanced pond clinic plan+F6shing mtg	wooster	plan for 2003 district in-service	5				
2002	7	16		Hageman	Bowling Green State University-II	Gibraltar Island	Summer Governor's Institute				54	
2002	7	16		Hageman	Stone Lab Faculty & Students	Gibraltar Island	Carolyn Merry, "Landsat-7"				25	
2002	7	16		Hageman	Jackson Smith	Gibraltar Island	Facilities Tour				4	
2002	7	16		Williams	NSL Analytical**	Client Visit	Business Development	3				
2002	7	16		Williams	Dike 14 exploration committee	Cleveland	Sea Grant	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				

Ohio Sea Grant Extension 2002 Combined Activities

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

Ohio Sea Grant Extension 2002 Combined Activities

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENT/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP/No.	MASS MEDIA
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	Bret Br. Mig	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				
2002	8	13		Lucente	Sea Grant Staff	wooster	Program Management				x	
2002	8	13		Hageman	Sea Grant Staff	wooster	Program Management	7				
2002	8	13		Hageman	Ken Radie Family & Guests	Gibraltar Island	Wedding @ Perry's Look-Out			40	8	
2002	8	13		Snyder	Sea Grant Staff	Wooster	Program Management	7				
2002	8	14		Lichtkoppler	OSU Students	Lake/Ashabula Counties	LE Coastal Issues	10			x	
2002	8	14		Lucente	NW Sea Grant Advisory Committee	Toledo	NW Sea Grant Advisory Committee	16			x	
2002	8	15	16	Hageman	Lake Erie Protection Fund	Gibraltar Island	Grant Making Comm. Mtg.			x		
2002	8	15	16	Hageman	Alber Enterprise Center	Gibraltar Island	Meeting			8		
2002	8	15		Lichtkoppler	OSU STAFF	Painesville	OHIO NEMO	4				
2002	8	15		Lucente	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					
2002	8	15		Williams	Greater Cleveland Commercial Realtor	Cleveland	Business Attraction	3				41
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
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 Petit-Tr-C education outreach	Cleveland	Education outreach	3				
2002	8	20		Williams	Mr. Office. Com	Cleveland	office location data search	8				
2002	8	21		Lichtkoppler	SG Facility	Painesville	Steelhead Survey Conf. Call	3				
2002	8	21		Lucente	OSG conference call	elyria	steelhead survey planning				x	
2002	8	21		Lucente	County Commissioners Days Participant	Perrysburg	Local Government Leadership Ac	24				
2002	8	21		Hageman	Tom Blaine, OSU Extension	Gibraltar Island	Coastal Rsch. Opportunities					5
2002	8	22		Lucente	submerged lands adv comm mtg	sheffield	sub committee mtg. Update ltr	5				
2002	8	22		Lucente	Ann Moore, Toledo Chamber of Commite	Toledo	Leadership Academy 2003 Planni	2				
2002	8	22		Hageman	CBS Corridors Coalition	Cleveland	CBS Corridors Coalition Mtg.	26				x
2002	8	22		Williams	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	23		Lichtkoppler	Congressional Visit tour	Cleveland	Pet program	4				
2002	8	23		Lucente	GS Staff	Painesville	Electronh Surveys	2				
2002	8	23		Williams	Jim Weidenheft, Ottawa County Ex.	Oak Harbor	Ottawa County BRE Project Mtg.	2				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	O.S.U.-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		Lucente	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 Reisenfeld	Beachwood	Retail facilities	2				
2002	8	29	30	Hageman	Hathaway-Brown	Gibraltar Island	Aquatic Science Workshop					71
2002	8	29		Lucente	vermillion rotary club	vermillion	lake erie update presentation	34				

Ohio Sea Grant Extension 2002 Combined Activities

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTNo.	CHAIRNo.	ORGANIZENo.	PARTICIP.No.	MASS MEDIA
2002	8	30		kelch	lorain port authority, city f lorain mtg	lorain	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	Hilliard 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	odm/drow & 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	x			
2002	9	4		Williams	Kenmarel Consultation	Cleveland	Business Attraction	3				
2002	9	4		Snyder	Sea Grant Faculty	Elyria	ANS Grant Development	3				
2002	9	5	6	Hageman	Hilliard Station 6th. Grade-II	Gibraltar Island	Aquatic Science Workshop			37		
2002	9	5		kelch	lorain city visitors bureau board mtg.	lorain	special relocation/budget mtg					
2002	9	5		Williams	ERRE & Tri C community college	Weslake	Establishing an Business retention	12			x	
2002	9	5		Snyder	Eric Oberl, 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	6		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	Boxley 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			x	
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					
2002	9	10		Lichtkoppler	Grand River Partners	Madison	Watershed Protection	26		31		
2002	9	10		Hageman	Elderhostel - IV	Gibraltar Island	Aquatic Science Workshop					
2002	9	10		Hageman	Bi-Centennial Committee	LEHS	Ohio's Bi-Centennial Celebration Plan			33		8
2002	9	10		Williams	Expanding upward ***	Beachwood	Business planning	3				
2002	9	10		Williams	Social Economic Workgroup	Penninsula	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	Cleveland	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	60				
2002	9	13		Hageman	Int'l. Assoc. Amusement Park Operators	Gibraltar Island	Facilities Tour	430			x	
2002	9	14		Hageman	Open House	Gibraltar Island	Facilities Tour					
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	Amherst Steele H.S.	Gibraltar Island	Aquatic Science Workshop			100		
2002	9	16		Hageman	Pheasants-Forever Board	Oak Harbor	Monthly Meeting					
2002	9	16		Williams	PET	Cleveland	Pre Employment	12			3	
2002	9	17	18	Hageman	Bellefontaine H.S.	Gibraltar Island	Aquatic Science Workshop					
2002	9	17		kelch	elyria lions club	elyria	lake ente update presentation	43		12		
2002	9	17		Hageman	Elderhostel - V	Gibraltar Island	Aquatic Science Workshop					
2002	9	17		Hageman	Bataan Memorial Elementary	Gibraltar Island	Aquatic Science Workshop			30		
2002	9	17		Williams	ITEC show	Brookpark	Business Retention			44		
2002	9	17		Williams	CB Commercial	Cleveland	Business Attraction	4				

Ohio Sea Grant Extension 2002 Combined Activities

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTING/NO.	CHAIR/NO.	ORGANIZE/NO.	PARTICIP./NO.	MASS MEDIA
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		x		
2002	9	18		Hageman	Genoa H.S. German Club	Gibraltar Island	Facilities Tour			23		
2002	9	18		Hageman	Chapter 074, Ducks Unlimited	Gibraltar Island	Annual Fundraiser Banquet				110	
2002	9	18		Williams	Northcoast Growth alliance	Pul-in-Bay	Business retention	5				
2002	9	19		Lucente	Ottawa County Officials	Cleveland	Business retention	5				
2002	9	19		Hageman	St. Vincent De Paul, 8th. Grade	Oak Harbor	Ottawa County BRE Task Force Mtg	16	x	x		
2002	9	19		Snyder	NW District Office Staff	Gibraltar Island	Aquatic Science Workshop	13		29		
2002	9	19		Snyder	NW District Evaluation Team	Findlay	District Staff Meeting	5				
2002	9	20	21	Hageman	Assoc. of Diving Contractors	Findlay	Inservice Planning	5				
2002	9	20		kelch	extension in-service mtg	Stone Laboratory	conference			15 - 40		
2002	9	20		Hageman	McCormick 5th. Grade	wooster	volunteer screening workshop					
2002	9	20		Williams	Business Resource Panel	Gibraltar Island	Facilities Tour			131		
2002	9	20		Williams	Pet	Cleveland	Graduation of students	16				
2002	9	20		Snyder	Ottawa County Fifth Grade Students	Cleveland	Graduation of students	12				
2002	9	21		Hageman	Heidelberg Ichthyology Class	Oak Harbor	Aquatic Science	550				
2002	9	21		Hageman	Girl Scout Troop #926	Gibraltar Island	Fish Trawl/Labs			7		
2002	9	21		Hageman	Black River M.S.	Gibraltar Island	Aquatic Science Workshop			11		
2002	9	23	24	Hageman	Brecksville H.S.	Gibraltar Island	Aquatic Science Workshop			17		
2002	9	23		Lichtkoppler	OSU Extension Staff	Gibraltar Island	Aquatic Science Workshop			16		
2002	9	23		Lucente	Lucas County Staff	Painesville	Office Mgt	12				
2002	9	23		Hageman	Rosanne Fortner	Toledo	On-Site Diversity Review	14				
2002	9	23		Hageman	West Holmes H.S.	Gibraltar Island	Distance Learning Filming			3		
2002	9	24		Lichtkoppler	Agency Officials	Gibraltar Island	Aquatic Science Workshop			17		
2002	9	24		kelch	conference call: 03 district pond inserv	Mentor	SAMP / MARC Watershed Mgt.	8				
2002	9	24		Lucente	Variety of Public Officials	elyria	planning for 2003 pond clinic				x	
2002	9	24		Hageman	Gibsonburg M.S.	Cleveland	Urban Land Use Video Conference	40				
2002	9	24		Hageman	Eiderhoser-VI	Gibraltar Island	Facilities Tour			104		
2002	9	24		Williams	Video feed from Portland	Gibraltar Island	Aquatic Science Workshop			30		
2002	9	25	26	Hageman	The Wellington School 7th. Grade	Cleveland	economic development	48				
2002	9	25		Lichtkoppler	ARP Coordinating	Gibraltar Island	Aquatic Science Workshop			59		
2002	9	25		Lichtkoppler	ARP Project	Ashtabula	ARP Mgt	15				
2002	9	25		kelch	lorain city visitors bureau board mtg.	Ashtabula	ARP Project	14				
2002	9	25		kelch	NE district P&T committee	lorain	tourism, relocation, budgets					
2002	9	25		Hageman	Portage School 6th. Grade	wooster	review/recommend P&T applicants				x	
2002	9	25		Snyder	Sandusky Co. Fourth Grade Students	Gibraltar Island	Aquatic Science Workshop				x	
2002	9	26		Lucente	LE Steelheaders	Fremont	Aquatic Science	240		46		
2002	9	26		Williams	CBS Corridors Coalition	Cleveland	Steelhead Survey	12				
2002	9	26		Williams	Heidman Steel ***	Cleveland	CBS Corridors Coalition Mtg.	20				
2002	9	26		Williams	AMS***	Toledo	Business Expansion	16				
2002	9	27	28	Hageman	Milford Jr. High	Cleveland	Business Expansion	4				
2002	9	27		Hageman	St. Marys of the Falls 8th. Grade	Gibraltar Island	Aquatic Science Workshop			72		
2002	9	27		Snyder	Fisher Business College	Gibraltar Island	Aquatic Science Workshop			19		
2002	9	30		Williams	National Issue Forum	OSU Campus	Program Overview	16				
2002	9	30		Snyder	Lake Erie Buffer Team	Cleveland	Stakeholder mtg.	8				
2002	9	31		Williams	Interior Automotive Site Visit***	Findlay	End-of-Grant Evaluation	13				
2002	10	1	2	Hageman	Mary Bridgeman / Columbus Dispatch	Medina/Lorain/summit	Business Attraction	5				
2002	10	1	2	Hageman	Worthingway M.S. / Worthington	Gibraltar Island	Aquatic Science Workshop					XX
2002	10	1		kelch	Lorain City Extension Adv Comm mtg	Gibraltar Island	Aquatic Science Workshop	29				
2002	10	2	4	Hageman	COLUMBUS School for Girls	elyria	sea grant overview, programs	66				
2002	10	2		Snyder	LECOBA & Ohio Div. Wildlife	Gibraltar Island	Aquatic Science Workshop	64				
2002	10	2		kelch	edn/row & osg meeting	Port Clinton	Artificial Reef Development	6				
2002	10	2		Williams	lakefront Planning Issue forum	Port Clinton	western basin art reef mtg	8				
2002	10	3	4	Lichtkoppler	Tourism Professionals	Cleveland	Sea Grant	36				
2002	10	3		Hageman	Coastal Ohio	Kirtland	Lake Erie Coastal Ohio	75			x	
						Huron	Lake Erie Eco Tourism				55	

Ohio Sea Grant Extension 2002 Combined Activities

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 / Elyria	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 & Jean 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	Waileys & Perch Hatch Interview					
2002	10	9		Williams	ACJPS diner	Independence	Business Retention	59				XX
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. Associa	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	Aquatic Science Workshop				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 Pl. Resch Lab	Zebra Mussel Specimens	1				
2002	10	14	16	Hageman	Hudson M.S. I	Gibraltar Island	Aquatic Science Workshop				42	
2002	10	14		Hageman	Great Lakes Commission	Bowling Green	Conference					
2002	10	14		Lucente	Great Lakes Commission	Gibraltar Island	Business Retention	2			x	
2002	10	14		Williams	CB Richard Ellis	Cleveland	Summer Visit	4				
2002	10	15		Snyder	Great Lakes Commission	Cleveland	Business Attraction				x	
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	16	17	Lichtkoppler	Citizens	Columbus	update director/faculty concerns	15				
2002	10	16	18	Hageman	Hudson M.S. II	Cleveland	SOLEC				400	
2002	10	16		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	18	19	Hageman	Andrews School for Girls / Willoughby	Cleveland	Sea Grant	36				
2002	10	18		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	Elyria	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	Gibraltar Island	Aquatic Science Workshop				28	
2002	10	23				Ashtabula	Ashtabula River Partnership	16				

Ohio Sea Grant Extension 2002 Combined Activities

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTING NO.	CHAIR/NO.	ORGANIZING NO.	PARTICIP. NO.	MASS MEDIA
2002	10	23		Lucente	NW District Office	Findlay	NW CD Program Planning Retreat	15				
2002	10	23		Ketch	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					
2002	10	24		Snyder	District Extension Employees	Findlay	Volunteer Inservice			25		
2002	10	24		Snyder	Portage River Basin Council	Bowling Green	Quarterly Meeting	32			85	
2002	10	24		Lucente	CBS Corridors Coalition	Toledo	CBS Corridors Coalition Mtg.	21				
2002	10	24		Ketch	WCOL radio Columbus phone interview	columbus	Lake Erie Dead Zone					XX
2002	10	25	26	Hageman	Jackson M.S. / Grove City	Gibraltar Island	Aquatic Science Workshop			50		
2002	10	25		Snyder	Sea Grant, ODNR, LEMTA	Port Clinton	Clean Marinas Conference call	6				
2002	10	25		Lucente	Jim Weidenheft, OSU Extension, Ottaw	Oak Harbor	Ottawa County BRE Project Analy	2	x			
2002	10	25		Ketch	WEOL radio-elyria	elyria	Lake Erie Dead Zone					XX
2002	10	28		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					
2002	10	28		Lucente	Great Lakes Environmental Finance Ce	Ashland	Focus Group Mtg.	12			12	
2002	10	28		Ketch	osu-ext pond mgt seminar plan mtg	wooster	2003 pond seminar planning	8				
2002	10	29		Ketch	Steelhead clerk training	elyria/cleveland	train, visit sites, techniques	1				
2002	10	30		Lichtkoppler	Citizens	Painesville	Office Conference	14	x			
2002	10	30		Lucente	Jim Weidenheft, OSU Extension, Ottaw	Toledo	Ottawa County BRE Project Analy	2			12	
2002	10	30		Ketch	Steelhead clerk training	elyria/cleveland	train, visit sites, techniques	1				
2002	10	31		Ketch	Steelhead clerk training	elyria/cleveland	train, visit sites, techniques	1				
2002	11	4		Lucente	Lucas County Staff	Toledo	Office Conference	14	x			
2002	11	4		Ketch	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		Ketch	osu-ext pond mgt seminar plan mtg	elyria conf call mtg	2003 pond seminar planning	10				
2002	11	6		Snyder	Sea Grant, USFWS	Port Clinton	HACCP Training Conf. Call	7				
2002	11	6		Lucente	NW District	Findlay	Community Dev. & Natural Resou	12	x			
2002	11	6		Williams	I/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		Ketch	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		Ketch	lcwb policy comm mtg	Iorain	visitor bureau issues	8				
2002	11	14		Lichtkoppler	Sea Grant Agents	Painesville	ANS PET Grant Conf Call	5	x			
2002	11	14		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	13				
2002	11	14		Lucente	NW Ohio Regional Econ. Dev. Associat	Toledo	NORED Mtg.	46				
2002	11	14		Ketch	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	Elyria	Lake Erie Coastal Ohio	5				
2002	11	15		Lucente	NW District Office	Findlay	NW District Fireside Chat and Co	65				
2002	11	16		Hageman	Bay Area Divers	Sandusky	Shipwrecks & SCUBA Banquet				100	
2002	11	17		Hageman	Pheasantis-Forever State Exec. Bd.	Marion	State Chapter Mtg.	6			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		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 Workboats					3
2002	11	19		Ketch	frn-feather-tur ouffitters sports store	ashland	mini steelhead lecture/seminar	53				
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

Ohio Sea Grant Extension 2002 Combined Activities

YEAR	MONTH	DAY	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTING No.	CHAIR No.	ORGANIZE No.	PARTICIP No.	MASS MEDIA
2002	11	20		Lucente	Ann Moore, Toledo Area Chamber of Commerce	Toledo	Leadership Academy 2003 Planning	2	x			
2002	11	20		Williams	Engineered Welded Blanks***	Lorain	Business Development	5				
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 Audiences 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	22		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	25		Williams	PET	Berea	Pre employment training	23				
2002	11	26		Snyder	Department Of Extension P&T Comm.	Cleveland	P&T Conference Call	8	x			
2002	11	26		Lichtkoppler	Extension Faculty	Port Clinton	Promotion & Tenure Conf Call	8				
2002	11	26		Lucente	CBS Corridors Coalition	Painesville	CBD Corridors Coalition Mtg.	16				
2002	11	26		Williams	Economic Development Network Mtg	Toledo	Zoning forum	43				
2002	11	27		kelch	Iorain city visitors bureau board mtg	Cleveland	tourism, lake issues	18				
2002	11	27		Williams	CVBG	Iorain	Business attraction	5				
2002	12	2		Williams	PET	Cleveland	Pre employment training	23				
2002	12	3		Lucente	PET	Cleveland	Recognition Conference	300				
2002	12	4		Williams	PET	Columbus	Pre employment training	23				
2002	12	5		Snyder	Sea Grant, USFWS	Cleveland	HACCP Training Conf. Call	8				
2002	12	5		Lucente	Ohio State University Extension Employee	Port Clinton	County Advisory Cabinet Meeting	16	x			
2002	12	6		Lucente	Lucas County Extension Advisory Cabir	Toledo	Ottawa County BRE Project	2				
2002	12	9		Lucente	Jim Waldenheft, OSU Extension, Ottawa	Oak Harbor	Conference Call/Ottawa County BRE	2	x			
2002	12	10		kelch	Dawn Malone, OSU BRE	Toledo	dead zone presentation	63				
2002	12	10		Williams	cleveland woods and water club	cleveland	Cuyahoga Rap	8				
2002	12	11		Williams	Socio-economic work group	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				
2002	12	12		Lucente	Ottawa County BRE Task Force	Oak Harbor	Ottawa County BRE TaskForce Mtg	18	x			
2002	12	13		Williams	National TBZ	Cleveland	Business Attraction	8	x			
2002	12	13		Lichtkoppler	Extension Faculty	Wooster	Update				89	
2002	12	13		Hegeman	Lake Craft Corporation	Port Clinton	Order New Rowboats			3		
2002	12	13		Lucente	Planning and Evaluation Committee	Toledo	Conference Call for Planning & Extension faculty mtg/update	6				
2002	12	13		kelch	osu-extension directors fireside chat	wooster	Extension Business					x
2002	12	13		Williams	Fireside Chat	wooster	Fisheries Extension Conf. Call	8				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	Monthly Bd. Mtg. / Bang. Planning	8				
2002	12	16		Hegeman	Pheasants-Forever, Chapter 291	Oak Harbor	Conference Call for Fisheries Extension	8				4
2002	12	16		Lucente	Ohio Sea Grant Staff	Toledo	sea grant issues planning					
2002	12	17		kelch	osg agents/director conference call	elyria	Transient Marina Meeting	21				x
2002	12	17		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Fisheries Extension Conf. Call	8				
2002	12	17		Lichtkoppler	GLSGN Fisheries Team	Port Clinton	MARC/SAMP	9				
2002	12	17		kelch	submerged lands adv comm mtg	Mentor	concerns, issues, direction	20				
2002	12	18		Lichtkoppler	Citizens	Iorain	Ashtabula River Partnership	14				
2002	12	18		Lucente	Great Lakes Sea Grant Network	Ashabula	Conference Call for GLSG Network	10				
2002	12	19		Snyder	Ninth Grade Students	Toledo	Career Counseling	68				
2002	12	19		Lucente	CBS Corridors Coalition	Fremont	CBS Corridors Coalition Mtg.	18				
2002	12	20		Lucente	Northwest District Office Staff	Toledo	District Office Conference	20				
2002	12	20		Snyder	Executive Committee	Findlay	Lake Erie Coastal Ohio	6				
2002	12	20		Lichtkoppler	Northwest District Office Staff	Elyria	District Office Conference	20				
2002	12	20		Lucente	Northwest District Office Staff	Findlay	District Office Conference	20				

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTING NO.	CHAIRING NO.	ORGANIZATION NO.	PARTICIPANT NO.	MASS MEDIA
2002	10	23		Lucente	NW District Office	Findlay	NW OD Program Planning Retreat	15				
2002	10	23		keich	Iorain city visitors bureau board mtg.	Iorain	Iourism, lake issues	20				
2002	10	24		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		keich	WCOL radio Columbus phone interview	columbus	Lake Erie Dead Zone					XX
2002	10	25	26	Hageman	Jackson M.S. / Grove City	Gibraltar Island	Aquatic Science Workshop			50		
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	x		
2002	10	25		keich	WEOLE radio-elyria	elyria	Lake Erie Dead Zone					XX
2002	10	28		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 Ce	Ashland	Focus Group Mtg.	12				
2002	10	28		keich	osu-ext pond mgt seminar plan mtg	wooster	2003 pond seminar planning	8				
2002	10	29		keich	Steelhead clerk training	elyria/cleveland	train, visit sites, techniques	1		x		
2002	10	30		Lichtkoppler	Citizens	Painesville	Coastal Management	1		x		
2002	10	30		Lucente	Jim Weidenheft, OSU Extension, Ottawa	Toledo	Ottawa County BRE Project Analy	2			12	
2002	10	30		keich	Steelhead clerk training	elyria/cleveland	train, visit sites, techniques	1		x		
2002	10	31		keich	Steelhead clerk training	elyria/cleveland	train, visit sites, techniques	1		x		
2002	11	4		Lucente	Lucas County Staff	Toledo	Office Conference	14	x			
2002	11	4		keich	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		keich	osu-ext pond mgt seminar plan mtg	elyria 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		Lucente	NW District	Findlay	Community Dev. & Natural Resour	12	x			
2002	11	6		Williams	IME 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		keich	LENSC Steelhead Seminar	bay village	steelhead angling seminar	125				
2002	11	13		Snyder	GLSGN ANS Team	Port Clinton	ANS Aquaria Conf. Call	8	x			
2002	11	13		keich	icrb policy comm mtg	Iorain	visitor bureau issues	8				
2002	11	14		Lichtkoppler	Sea Grant Agents	Painesville	ANS PET Grant Conf Call	5	x			
2002	11	14		Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	13				
2002	11	14		Lucente	NW Ohio Regional Econ. Dev. Associat	Toledo	NORED Mtg	46				
2002	11	14		keich	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	Elyria	Lake Erie Coastal Ohio	5				
2002	11	15		Lucente	NW District Office	Findlay	NW District Fireside Chat and Co	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.	6			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 Workboats				3	
2002	11	19		keich	frn-feather-tur 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	

Ohio Sea Grant Extension 2002 Combined Activities

YEAR	MONTH	DAY1	DAY LAST	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTING No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.	MASS MEDIA
2002	11	20		Lucente	Ann Moore, Toledo Area Chamber of Commerce	Toledo	Leadership Academy 2003 Planning	2	x	x		
2002	11	20		Williams	Engineered Welded Blanks***	Lorain	Business Development	5				
2002	11	20		Williams	PET	Cleveland	Pre employment training	23				
2002	11	21		Snyder	Ohio Sea Grant Staff	Port Clinton	ANS Conference call	6				
2002	11	21		Lichtkoppler	Sea Grant Agents	Painesville	ANS Mass Audience Conf Call	7				
2002	11	21		Lucente	Toledo Area Officials	Toledo	Toledo Technology Summit	70				
2002	11	21		Williams	State of Minority Health	Columbus	education					
2002	11	22		Lichtkoppler	Sea Grant Agents	Painesville	ANS PET Grant Conf Call	6				
2002	11	22		Williams	Polaris career center	Berea	Pre for Sea Grant Program	2				
2002	11	25		Williams	PET	Cleveland	Pre employment training	23				
2002	11	26		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	Iorain city visitors bureau board mtg	Iorain	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 Employee	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 Cabir	Toledo	County Advisory Cabinet Meeting	16	x			
2002	12	6		Lucente	Jim Weidenheft, OSU Extension, Ottawa	Oak Harbor	Ottawa County BRE Project	2				
2002	12	9		Lucente	Dawn Malone, OSU BRE	Toledo	Conference Call/Ottawa County BRE	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 Mtg	18	x			
2002	12	12		Williams	National TBZ	Cleveland	Business Attraction	8				
2002	12	13		Lichtkoppler	Extension Faculty	Wooster	Update	8			89	
2002	12	13		Hageman	Lake Craft Corporation	Port Clinton	Order New Rowboats			3		
2002	12	13		Lucente	Planning and Evaluation Committee	Toledo	Conference Call for Planning & Evaluation	6				
2002	12	13		kelch	osu-extension directors fireside chat	wooster	extension faculty mtg/update					
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			x	
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	8				
2002	12	16		Lucente	Ohio Sea Grant Staff	Toledo	Conference Call for Fisheries Extension	8			4	
2002	12	16		kelch	osg agents/director conference call	Elyria	sea grant issues planning					
2002	12	17		Snyder	Port Clinton Mayor's Core Group	Port Clinton	Transient Marina Meeting	21			x	
2002	12	17		Snyder	GLSGN Fisheries Team	Port Clinton	Fisheries Extension Conf. Call	8				
2002	12	17		Lichtkoppler	Citizens	Mentor	MARC/SAMP	9				
2002	12	17		kelch	submerged lands adv comm mtg	Iorain	concerns, issues, direction	20				
2002	12	18		Lichtkoppler	Citizens	Iorain	concerns, issues, direction	20				
2002	12	18		Lucente	Great Lakes Sea Grant Network	Ashland	Ashland River Partnership	14				
2002	12	19		Snyder	Ninth Grade Students	Toledo	Conference Call for GLSG Network	10				
2002	12	19		Lucente	CBS Corridors Coalition	Fremont	Career Counseling	68				
2002	12	20		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				