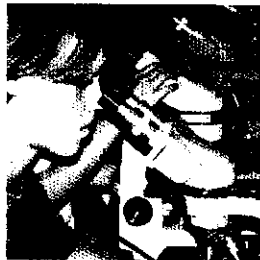
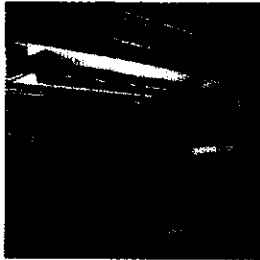


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# Sea Grant

Ohio Sea Grant College Program



RESEARCH  
EDUCATION  
SERVICE

Ohio Sea Grant College Program  
Progress Report 2000 - 2001

Jeffrey M. Reutter, Ph.D, Director

Grant Number NA86RG0053

OHSU-TB-058



# Ohio Sea Grant College Program Progress Report 2000 - 2001

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# PROGRAM HIGHLIGHTS FROM 2001

This has been a great year for the program, but certainly the events of 11 September have made us all reflect on our accomplishments and what we have to be thankful for. As Director, after my family, I think of the tremendous staff I have and our wonderful partners in the private sector, Ohio State University, other universities, state and federal agencies, our Sea Grant Advisory Committees, and the Friends of Stone Laboratory (FOSL). These people make my job enjoyable and greatly increase the impact of our results. Finally, Ohio is fortunate to have an extremely talented pool of research scientists poised to address the critical issues we face, and university administrators, elected officials, and state agency leaders eager to assist us and collaborate with us.

**Enrollment at Stone Laboratory.** During the summer of 2001, a total of 185 students from 18 colleges and universities and 40 high schools took college courses at Stone Laboratory. Since 1990, students from 71 colleges and universities and 292 high schools have taken college courses at Stone Laboratory. With the assistance of the FOSL we were able to award 32 scholarships totaling \$13,005 in 2001. We also awarded 6 scholarships to outstanding high school research scientists at State Science Day sponsored by the Ohio Academy of Science.

**Workshops at Stone Laboratory.** Our spring and fall aquatic workshop/field trip/conference program attracted 162 groups and 5,288 participants.

**Research.** During 2001, eleven agencies and universities conducted research at Stone Laboratory. During 2000-01 Ohio Sea Grant supported 13 large research projects and 14 development fund projects at 13 universities and agencies. These Sea Grant projects produced over 45 scientific publications and over 85 presentations at scientific meetings during this period, and supported over 25 graduate students.

**Celebrations and Losses.** We celebrated the 80<sup>th</sup> birthday of Dr. Jane Forsyth an eminent Ohio geologist and frequent lecturer at Stone Laboratory, and mourned the loss to two early Lake Erie research scientists and Stone Laboratory faculty members: Dr. N. Wilson Britt and Dr. David Chandler.

**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.

**Office Move.** In May we completed our move to newly renovated space in The Ohio State University Research Center. The cost of renovation, \$585,000 was provided by Ohio State University. The new space and facilities have increased our productivity.

**Equipment and Facilities and 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 will receive \$350,000 for equipment and facilities this year. **Thank you Senator DeWine!!**

**Web Site and Electronic Reports.** Our web site ([www.sg.ohio-state.edu](http://www.sg.ohio-state.edu)) was significantly improved in 2000 and 2001 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 about 250,000 visitors. In 2000 it had over 550,000. In 2001 it will receive over 1 million visitors. 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 almost 20 programs have requested the system.

**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.

**20<sup>th</sup> Anniversary FOSL.** 2001 was the 20<sup>th</sup> anniversary of the formation of the Friends of Stone Laboratory. The Friends are composed of former students and faculty and just "friends of Lake Erie" who banded together in 1981 to upgrade the Laboratory's facilities and equipment, raise money for scholarships, bring in more outstanding faculty members, make it easier for non-OSU students to attend the Laboratory, and, in general, improve the quality of the research, education, and outreach programs conducted at Stone Laboratory. Annually, the group of about 500 members donates thousands dollars and person-hours to the Laboratory and Lake Erie. They have established 6 endowments and 4 general fund-raising accounts valued at more than \$600,000. In the last 10 years they have awarded 400 scholarships valued at approximately \$115,000 to students at colleges and universities all over Ohio, to help them attend Stone Laboratory. In 1996 the FOSL

began awarding scholarships for outstanding science projects at the Ohio Academy of Science's State Science Day. To date, they have honored and awarded scholarships to 34 high school students from all over Ohio and they have purchased over \$100,000 of equipment to support research and courses at Stone Laboratory.

**20<sup>th</sup> Anniversary Ohio Charter Captains' Conference.** 2001 was the 20<sup>th</sup> 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.

**20<sup>th</sup> Anniversary at Cleveland Shows.** 2001 was our 20<sup>th</sup> 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.

## **Selected 2000 Highlights**

**Lake Erie Award.** The Ohio Sea Grant College Program received the "Lake Erie Award" from the Lake Erie Commission in 2000.

**PAT.** Ohio Sea Grant hosted the Program Assessment Team from the National Sea Grant College Program from 24-29 September 2000. The following are quotes from the final evaluation report.

- *"The PAT (Program Assessment Team) believes that the Ohio Sea Grant College Program is so outstanding that it deserves the highest possible overall rating of EXCELLENT."*
- *"The [Ohio Sea Grant] web site and the project database are clear examples where the Ohio program can lead the way in the region and in the nation."*
- *"The Ohio Sea Grant College Program should serve as a model to be considered by other Sea Grant programs in trying to strengthen their connections with users."*

**Gibraltar III.** The 42-foot *Gibraltar III* was purchased from the Ohio Division of Wildlife and used for the first time at Stone Laboratory during the fall of 2000.

## **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 2000 we hosted the Second Sea Grant/Stone Laboratory Winter Lecture Series in Columbus. The program focused on changes in Lake Erie water levels and our research in biotechnology.
- In July 2000 we also hosted our 12<sup>th</sup> Ohio Sea Grant State Legislature/Congressional Day on Lake Erie. Over 170 people attended.
- In August 2000 we hosted the Third Annual Stone Laboratory Open House with the Friends of Stone Laboratory and the Lake Erie Commission. Over 700 people attended the all day event. The program was repeated in August 2001 with over 800 in attendance.
- In February 2001 we hosted the Third Sea Grant/Stone Laboratory Winter Lecture Series in Columbus. The lectures covered results from an Ohio Sea Grant development fund project that created a database of the over 1700 shipwrecks in Lake Erie. Over 200 people attended.
- 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 told us that it was possibly the best field trip at the Conference.

## **Fellowships**

Sapna Batish and Melissa Haltuch, both Ph.D. candidates in the Environmental Sciences Program at Ohio State University, were selected as Knauss Fellowship winners for 2001. Sapna has spent the year in Washington working for National Environmental Satellite Data Information Service (NESDIS) of NOAA and Melissa has been working for the US State Department on the Pacific Treaty. In June, Elizabeth Moore, from the Ohio State University Environmental Sciences Program, began a one-year fellowship at the Great Lakes Commission working on Great Lakes watershed issues.

## **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. 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 2001, 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. He served as Co-Chair of the 30<sup>th</sup> Anniversary Committee of the National Sea Grant Association, in addition to numerous other appointments with the Lake Erie Commission, the Great Lakes Commission, Sigma Xi, Ohio EPA, and Ohio DNR, among others. In 2000, he was the Chair of the Great Lakes Sea Grant Network. In November 2001 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 became chair of the Grant-Making Committee of the Great Lakes Protection Fund.

## **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 and state support from the Ohio Board of Regents remain very strong. Support for the National Sea Grant College Program within Congress remains strong, and the federal budgets look good. Donations have been strong but the value of endowments has dipped in the last two years as the stock market has fallen.

## **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 renovate the Stone Laboratory Research Building.
- 3) Raise funds to construct new faculty/research housing at Stone Laboratory.
- 4) Increase support from the State Legislature.
- 5) Develop an underwater diving preserve around Kelley's Island in Lake Erie.
- 6) Finalize plans for an artificial reef in the Western Basin of Lake Erie.
- 7) Develop markets for underwater welding electrodes developed by Sea Grant research.
- 8) Develop markets and products from Sea Grant biotechnology research.
- 9) Enter Gibraltar Island, Stone Laboratory, and the South Bass Island Lighthouse in the state historical database and get historical markers in preparation for the State's bicentennial celebration in 2003.
- 10) Provide leadership to IJC efforts to develop research priorities for the Great Lakes.

## **The Future**

While Lake Erie is clearly better than in was 30 years ago when the Cuyahoga River burned, it is not clean enough. Ohio Sea Grant will continue to support research projects to 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.

# Ohio Sea Grant College Program Progress Report 2000 - 2001

## **APPENDIX A**

### **PROGRAM FUNDING**





# APPENDIX A

## PROGRAM FUNDING (ALL SOURCES)—2000 & 2001

### Federal Sea Grant Funding—Grant No. NA86RG0053 (Omnibus Award)

950,400	Omnibus 1 March 2000
99,747	Sea Grant Technology Competition
76,000	Knauss Fellows—Romanello and Skidmore
43,000	Addition from National Sea Grant for Regional Dev. and Administration
33,720	ANS
24,996	NOAA Partnership from National Geodetic Survey
968,200	Omnibus 1 March 2001
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
\$2,426,032	Total Federal 2000-01

### Matching Support from Universities

\$ 631,471	2000
<u>589,201</u>	2001
\$1,220,672	Total University Match 2000-01

### State Line Item (1 July 2000 to 30 June 2002)

FY 01	\$299,940
FY 02	<u>281,940</u>
Total	\$581,880

### Ohio State University Support (Operating Budgets)

	<u>FY01</u>	<u>FY02</u>	<u>2-Year Total</u>
Sea Grant/CLEAR	\$148,433	\$154,482	\$302,915
Stone Laboratory	<u>277,582</u>	<u>264,628</u>	<u>542,210</u>
Total	\$426,015	\$419,110	\$845,125

be used to help with educational efforts for elected officials and decision-makers, e.g. Ohio Sea Grant's State Legislature/Congressional Days on Lake Erie. Income from the second endowment, "**The Stone Laboratory Educational and Research Fund,**" will be used to enhance our educational and research programs at the Laboratory—specifically those that benefit Erie County students. **In 2001, Jack donated an additional \$10,000 to the Legislators' Fund that was matched by \$15,000 from other sources.**

Jay Cooke's Castle on Gibraltar Island is a National Historic Landmark. We are in the process of renovating the building to serve as an education/conference center to enhance our outreach program. The **Cooke Castle Renovation Fund** was established in 1999 to support this effort.

## **Capital Improvements and Equipment**

\$500,000	Ohio State University renovation of Cooke Castle—1998—Roof and windows completed 2000
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
30,000	New telephone system for Stone Laboratory (T1 line)—2000
2,000,000	New sewer and water system for Stone Laboratory—Committed 2001

<u>350,000</u>	Equipment and Facilities Improvements for Stone Laboratory—Senator DeWine
\$3,965,000	Total

### **Scholarships at Stone Laboratory**

\$14,389	57 Scholarships in 2000
<u>13,005</u>	32 Scholarships in 2001
\$27,394	2000-01 Total

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

# Ohio Sea Grant College Program Progress Report 2000 - 2001

## **APPENDIX B**

### **INSTITUTIONS INVOLVED**

**Table B-1      Institutions Involved  
2000 - 2001**

**Table B-2      Home Institutions of College-Level  
Students 1986 to 2001**

**Table B-3      Home Institutions of  
Concurrent Enrollment  
(High School Students)  
1990 - 2001**



# **APPENDIX B**

## **TABLE B-1**

### **INSTITUTIONS INVOLVED—2000 - 2001**

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 Toronto  
University of Windsor  
Wright State University

### **Participants in the Great Lakes Aquatic Ecosystem Research Consortium (GLAERC)**

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**

American Museum of Natural History, NY  
Heidelberg College  
Kent State University  
Miami University  
Mount Union College  
Ohio Geological Survey  
Ohio State University  
Otterbein College  
Penn State University  
SUNY at Buffalo  
University of Michigan  
US Geological Survey  
Utica College of Syracuse University  
Wittenberg University

## **Conducting Research at our Lake Erie Laboratory, Stone Laboratory**

Bowling Green State University  
Case Western Reserve University  
Davis-Besse Nuclear Power Station  
GLERL, NOAA  
Heidelberg College  
Miami University  
NOAA, Office of Marine Pollution Assessment  
Northern Illinois University  
ODNR, Division of Wildlife  
Ohio State University  
Penn State University

**TABLE B-2: Home Institutions of College-Level Students 1986-2001**

YEAR	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01
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	16.8
<b>INSTATE</b>																
Ashland Univ					1				2	1	1			1	1	2
Baldwin-Wallace College		2			1		1		1		1	1				
Bluffton College					1		1									
<b>*Bowling Green State Univ</b>		2	1		2	1	2	3	2	2	4	1	3	6	4	<sup>4</sup> 3
Capital Univ							1									
Case Western Reserve Univ				1			1		1							
Cedarville College							1									
<b>*Cincinnati State Tech&amp;Comm Coll</b>												1	1	1		
<b>*Cleveland State Univ</b>		2	1	1			2		2				1	2	1	
College of Mount St. Joseph										1						
College of Wooster	1				1									1		
Columbus Coll Art & Design							1									
<b>*Columbus State Comm Coll</b>								1								2
<b>*Cuyahoga Community Coll</b>					1	2	3	1	3		1				2	
Defiance College												1				
Heidelberg College		2					1					1			1	
<b>*Hocking Tech College</b>	1								1					1		
John Carroll Univ		1			1	2	1							1		1
<b>*Kent State Univ</b>		2			2	3	3		1	1		1	4		2	
Lake Erie College								1	1							
<b>*Lakeland Community College</b>								1	1							
<b>*Miami University</b>	3	2	7	1	4	7	6	6	3	10	3	2		1	4	1
Mt. Vernon Nazarene College	1															
<b>*North Central Tech College</b>						1	1									
Oberlin College						1										
Ohio Northern Univ									1				1		2	1
<b>*Ohio State University</b>	33	51	49	58	74	77	89	122	107	101	<sup>a</sup> 110	<sup>a</sup> 114	113	125	89	109
Ohio University		1	1	1	1	1	4	2	2	3			1		2	1
Ohio Wesleyan Univ				1	1					1		1	1			
Otterbein College		1					1				1	1		1		
<b>*Univ of Akron</b>					1			1	1		1	1	1	1		1
<b>*Univ of Cincinnati</b>	1		1				1	1	1			1			1	
<b>*Univ of Findlay</b>							1						2		3	1
<b>*Univ of Toledo</b>		2				1	5		2	1				2	2	
Urbana Univ							1									
Ursuline College								1								
Wilmington College									1				1			
Wittenberg Univ	1				1			1	1	1		1	2		1	1
<b>*Wright State Univ</b>						1			4	3	1	1	3	2	3	1
Xavier University												1		1		
<b>*Youngstown State Univ</b>	2		1		1	2	2	2	1			1				

<sup>a</sup> includes 1 workshop participant  
 \* state-assisted institution of O

**TABLE B-2: Home Institutions of College-Level Students 1986-2001**

Continued

YEAR	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01
<b>OUT OF STATE</b>																
Allegheny College, PA											1	1			1	
Ambassador College,		1					1									
Amherst Coll, MA									1							
Asbury Coll, KY												1				
Ball 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		1														
Indiana Univ, IN							1	2	1							
Jacksonville Univ, FL		1							1							
James Madison Univ, VA																1
Loyola Univ of Chicago, IL													1			
Marshall University, WV															1	
Mary Washington College, VA														1		
Middlebury College, IN																1
Morehead State Univ, KY													1			
Rollins College, FL								1								
San Francisco State Univ, CA															1	
Southern Ill Univ, IL						1										
State Univ of New York, NY									1							
St. Bonaventure Univ, NY															1	
St. Lawrence Univ, NY						1		1								
St. Mary's College, IN										1	1					
Tulane Univ, LA																1
U. S. Coast Guard Academy, CT																1
Univ of Florida		1														
Univ of Kentucky, KY									1							
Univ of Maine, ME								1								
Univ of Michigan, MI										1			1			
Univ of Minnesota- Duluth, MN													1			
Univ of Notre Dame, IN							1		2		1	1			1	
Univ of Rochester, NY																1
U of SC Coastal Carolina Coll, SC								1								
Washington Univ, MO															1	
West Virginia Univ, WV								1								
																1
<b>Tot # of different out-of-state coll/yr</b>	0	4	0	0	0	4	3	6	9	2	3	3	6	4	4	5
<b>Tot # of different in-state coll/yr</b>	8	11	7	6	14	12	22	14	21	11	9	16	13	14	15	13
<b>TOTAL # ALL coll/yr</b>	<b>8</b>	<b>15</b>	<b>7</b>	<b>6</b>	<b>14</b>	<b>16</b>	<b>25</b>	<b>20</b>	<b>30</b>	<b>14</b>	<b>12</b>	<b>19</b>	<b>19</b>	<b>18</b>	<b>19</b>	<b>18</b>
<b>Cumulative # ALL Colleges</b>	<b>8</b>	<b>21</b>	<b>21</b>	<b>23</b>	<b>27</b>	<b>34</b>	<b>41</b>	<b>49</b>	<b>57</b>	<b>60</b>	<b>61</b>	<b>65</b>	<b>70</b>	<b>74</b>	<b>76</b>	<b>80</b>



**TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2001**

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

**TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2001**

<u>YEAR</u>	<u>90</u>	<u>91</u>	<u>92</u>	<u>93</u>	<u>94</u>	<u>95</u>	<u>96</u>	<u>97</u>	<u>98</u>	<u>99</u>	<u>00</u>	<u>01</u>
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 High, Tiffin	-	-	-	1	1	-	-	-	-	-	-	-
Columbiana HS, Columbiana	-	-	-	1	-	-	-	-	-	-	-	-
Columbus Academy, Gahanna	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	1	-	-
Crestview HS, Columbiana	-	-	-	-	-	-	-	-	2	1	-	-
Crestwood HS, Mantua	-	-	1	-	1	1	-	-	-	-	-	-
Crooksville HS, Crooksville	-	-	-	-	-	1	1	-	-	-	-	-
Defiance HS, Defiance	-	-	-	-	-	-	-	1	-	-	-	-
Dublin Coffman HS, Dublin	-	-	1	-	1	-	-	-	-	-	1	-
East HS, Columbus	-	-	-	-	3	1	3	1	1	-	-	-
East Liverpool HS, East Liverpool	-	1	-	-	-	-	-	-	-	-	-	-
East Technical HS, Cleveland	-	-	-	-	-	-	-	-	-	1	1	-
Eastmoor HS, Columbus	-	-	-	-	-	-	-	-	2	-	2	1
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
Elyria Catholic HS, Elyria	-	-	-	-	-	-	-	-	-	-	1	-
Elyria West HS, Elyria	-	1	-	-	-	-	-	-	-	-	-	-
Euclid HS, Euclid	-	-	1	-	-	-	1	-	-	1	-	-
Fairbanks HS, Milford Center	-	-	-	-	1	-	-	-	-	-	-	-
Fairfield Union HS, Lancaster	-	-	1	-	-	-	-	-	-	-	-	-
Fairland HS, Proctorville	-	-	-	-	-	1	1	-	-	-	-	-
Fairview HS, Fairview Park	-	1	-	2	-	1	-	2	1	-	-	-
Fayetteville HS, Fayetteville	-	-	-	-	-	-	-	-	-	-	1	2
Federal Hocking HS, Stewart	-	-	1	-	1	-	-	-	1	-	-	-
Findlay HS, Findlay	-	-	-	-	-	-	-	1	-	-	-	-
Finneytown HS, Cincinnati	-	-	-	-	-	-	-	-	-	-	1	-
Firelands HS, Oberlin	-	2	1	-	-	1	-	-	-	-	-	-
Firestone HS, Akron	-	-	1	-	-	-	-	-	1	-	1	-
Fitch HS, Youngstown	-	1	1	-	-	-	-	-	-	-	-	-
Fort Hayes Career Cent Voc HS, Columbus	-	-	-	-	-	-	-	-	-	-	-	1
Fort Hayes Metro Educ Center HS, Cols	-	1	2	5	2	1	1	5	1	-	1	1





**TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2001**

YEAR	90	91	92	93	94	95	96	97	98	99	00	01
Minster HS, Minister	-	-	-	-	-	-	-	-	1	1	-	-
•Montoursville Area HS, Montoursville PA	-	-	1	-	-	-	-	-	-	-	-	-
•Mount Lebanon Senior HS, Pittsburgh, PA	-	-	-	-	-	-	-	-	-	-	-	1
Mount Vernon HS, Mt. Vernon	-	-	-	-	-	-	-	-	-	-	1	-
Morgan HS, McConnelsville	-	1	-	-	-	-	-	-	-	-	-	-
Napoleon HS, Napoleon	-	-	-	2	-	-	-	-	-	-	-	-
New Albany HS, New Albany	-	-	-	-	-	-	-	-	-	1	-	-
New Philadelphia HS, New Philadelphia	1	-	-	-	1	-	-	-	-	-	-	-
Newark HS, Newark	-	-	-	-	-	-	3	-	-	-	-	-
Newark Catholic HS, Newark	-	-	1	-	2	-	-	-	-	-	-	-
Newton Falls HS, Newton Falls	2	-	1	4	1	3	6	2	-	1	-	-
North Olmsted HS, North Olmstead	-	-	2	2	-	-	-	-	-	-	-	1
North Ridgeville HS, N Ridgeville	-	-	1	-	-	-	-	-	-	-	-	-
Northeastern HS, Springfield	-	-	-	-	1	-	-	-	-	-	1	-
Northland HS, Columbus	2	-	-	-	-	1	1	2	2	-	-	-
Northmont HS, Clayton	-	1	-	-	-	-	-	-	-	-	-	-
Northridge HS, Johnstown	-	-	-	-	-	-	-	-	-	-	1	-
Norwood HS, Norwood	-	-	-	-	-	-	-	-	1	-	-	-
Notre Dame Academy HS, Toledo	-	-	-	-	-	-	-	-	1	-	1	1
Oak Harbor HS, Oak Harbor	-	1	-	-	-	-	-	-	-	-	-	-
Oak Hills HS, Cincinnati	-	-	1	-	-	-	-	-	-	-	1	-
Olentangy HS, Lewis Center	-	-	-	-	-	-	1	-	-	1	-	-
Olmsted Falls HS, Olmsted Falls	-	-	1	-	-	-	1	-	-	-	-	-
Ontario HS, Mansfield	-	-	-	-	-	-	-	-	1	-	-	-
Ottawa-Glandorf, Ottawa	-	-	-	-	1	-	-	-	-	-	-	-
Our Lady of the Elms HS, Akron	-	-	-	-	-	-	-	-	-	-	-	1
Padua Franciscan HS, Parma	-	-	-	-	-	2	-	-	-	-	-	1
Parma HS, Parma	-	-	2	2	-	-	-	-	-	1	-	-
•Peoria Notre Dame HS, Peoria Hts IL	-	-	-	-	-	-	1	-	-	-	-	-
Perry HS, Perry	-	-	-	1	-	-	-	-	-	-	-	-
Perrysburg HS, Perrysburg	-	-	-	2	-	2	-	-	-	-	-	-
Pickerington HS, Pickerington	-	-	-	-	-	-	1	-	-	1	-	-
Piqua High School, Piqua	-	-	-	-	-	-	-	-	-	-	1	-
Port Clinton HS, Port Clinton	-	-	2	-	-	-	-	-	-	-	1	-
•Pulaski County HS, Eubank KY	-	-	-	-	1	-	-	-	-	-	-	-
R.B. Chamberlin HS, Twinsburg	-	-	1	-	-	-	1	-	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



**TABLE B-3: Home Institutions of Concurrent Enrollment (High School) Students 1990-2001**

YEAR	90	91	92	93	94	95	96	97	98	99	00	01
Ursuline Academy High, Cincinnati	-	-	-	-	-	-	-	-	1	-	1	1
Valley Forge HS, Parma Heights	-	-	1	1	2	-	-	-	-	-	-	-
Valley View HS, Germantown	-	-	-	-	-	-	-	-	-	-	1	1
•Vanguard HS, Ocala FL	-	-	-	-	-	-	-	-	-	1	-	-
Vermilion HS, Vermilion	-	1	-	-	-	-	-	-	-	-	-	-
Vinton County HS, McArthur	-	-	-	-	-	-	-	-	-	-	-	1
Wadsworth HS, Wadsworth	-	-	-	-	-	-	-	-	-	-	-	1
Walnut Ridge HS, Columbus	-	-	-	-	1	-	-	1	-	1	-	-
Wapakoneta HS, Wapakoneta	-	-	-	-	1	-	-	-	-	-	-	-
Watkins Memorial HS, Pataskala	-	-	-	-	-	-	-	1	1	-	-	-
Wauseon HS, Wauseon	-	-	1	-	-	-	-	-	-	-	-	-
Waverly HS, Waverly	-	-	1	-	-	-	-	-	-	-	-	-
Waynedale HS, Apple Creek	-	-	-	-	-	-	-	-	-	-	-	1
Wellington High, Columbus	-	1	-	-	-	-	-	-	-	-	-	-
West Branch HS, Beloit	-	-	-	1	-	-	-	-	1	-	-	-
West Carrollton HS, West Carrollton	-	-	-	-	-	-	-	-	1	-	-	-
West Geauga HS, Chesterland	-	-	-	-	-	1	1	-	-	1	-	-
West HS, Columbus	-	-	2	-	7	-	1	-	-	2	-	2
West Holmes HS, Millersburg	-	2	-	-	-	-	-	-	-	-	-	-
West Liberty-Salem Jr/Sr HS, West Liberty	-	-	-	-	-	-	-	1	-	-	-	-
Westerville-North HS, Westerville	1	1	1	1	2	2	-	-	-	-	1	-
Westerville-South HS, Westerville	-	-	-	-	1	1	-	2	-	-	2	-
Westlake HS, Westlake	-	-	-	2	-	-	-	1	-	1	-	1
Westland HS, Galloway	-	1	-	-	-	-	-	-	-	-	-	1
Whetstone HS, Columbus	-	-	-	1	-	-	1	6	3	1	1	3
Wm Fisher Catholic HS, Lancaster	-	-	2	-	-	-	-	-	-	-	-	-
Wm Henry Harrison HS, Harrison	1	1	1	1	1	1	-	-	-	2	-	-
Wm Mason HS, Mason	-	-	-	-	-	-	-	1	-	-	-	-
Willoughby South HS, Willoughby	-	-	-	-	-	-	-	-	-	-	-	1
Winton Woods HS, Cincinnati	-	-	-	-	-	1	-	-	-	-	-	-
Woodmore HS, Elmore	-	-	-	-	-	-	-	-	-	-	1	-
Wooster HS, Wooster	-	1	-	-	-	-	-	-	-	-	-	-
Worthington Kilbourne HS, Columbus	-	-	1	1	-	-	-	-	1	-	-	-
TOTAL # of High Schools/year	==	==	==	==	==	==	==	==	==	==	==	==
	19	48	57	60	50	44	42	53	60	52	60	40
Cumulative # of All High Schools	19	62	102	141	163	179	198	225	251	265	280	292
Cumulative # of Out-of-State Schools			1	2	4		6			7	7	8

• = Out-of-State

# Ohio Sea Grant College Program Progress Report 2000 - 2001

## **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  
1/1/00 - 12/31/01**



**PUBLICATIONS FROM PROJECTS 1/1/00-12/31/01  
(21 IN 2000, 25 IN 2001)**

**PRESENTATIONS FROM PROJECTS 1/1/00-12/31/01  
(49 IN 2000, 70 IN 2001)**



# APPENDIX C

## TABLE C-1

### OHIO SEA GRANT COLLEGE PROGRAM FUNDED 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**, 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**, 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 1-1-2000 to 12-31-2001

Project Number	Project Title	Initiation Date	Principal Investigator
R/ER-57-PD	Radiocarbon Age Constraints on Lake Erie Record of Climate and Lake Level Change	2/1/2000	Beverly Saylor
R/ER-56-PD	Effects of Salt Contamination and Exotic Species Invasions on a Large, Freshwater Marsh in the Lake Erie Basin	3/1/2000	Lisa Park
R/GIS-2-PD	Spatial Modelling of the Mentor Marsh and Its Watershed: Equipment Grant	3/1/2000	Craig Davis
E/OCF-1-PD	Ohio Sea Grant Summer Student Internship	5/1/2000	Timothy Lloyd
E/OCF-1-PD	Ohio Sea Grant Summer Student Internship	5/1/2000	Frank Lichtkoppler
R/A-15-PD	Methods of intraspecies embryonic cell transfer in fish	5/1/2000	Konrad Dabrowski
R/ER-59-PD	Preliminary tests of seiches on plant litter decomposition and macroinvertebrates in Great Lake coastal wetlands	5/24/2000	Ferenc de Szalay
R/ES-6-PD	Bottom boundary layer measurements over biological substrates	6/1/2000	Timothy Granata
R/PS-27-PD	Digestive physiology as it relates to food preference as a mechanism explaining differential bioaccumulation of lipophilic pollutants among benthic invertebrates	6/1/2000	Robert Findlay
R/EM-21-PD	A Model for Internal Chemical Loading in Lake Erie	8/1/2000	Gerald Matisoff
R/ER-58-PD	Cyanotoxins in the Great Lakes: Is <i>Microcystis</i> toxin production linked to iron deficiency?	9/1/2000	Michael McKay
A/AS-11-PD	Aquaculture Health Issues seminar and panel discussion	2/1/2001	Donald McFeeters
R/ME-27-PD	The Economic Importance of Nature-Based Tourism in Ohio's Lake Erie Tourism Industry: The Case of Ottawa and Erie Counties	4/1/2001	Leroy Hushak
R/LR-60-PD	Evaluation of Employing Trace Element Contents of Otoliths as a Natural Tag Using Lake Erie White Bass, <i>Morone chrysops</i>	12/1/2001	John Farver

# PUBLICATIONS FROM PROJECTS PUBLISHED IN 2000

Project Number	Initiation Date	Completion Date	Publication
A/EP-1	9/1/1978	2/28/2006	Snyder, F.L. 2000. Lake Erie - agriculture's role. in J. of Crop Production Conference Proceedings. Muerck, editor. Crop Production Conference, Ohio Agribusiness Association and Ohio State University Extension, Columbus, Ohio, pp. 17-20.
E/OCF-1-PD	5/1/2000	10/30/2000	Matson, Timothy O. 2000. Interm Report on the Surveys of the Fishes, Amphibians, and Reptiles of the Conneaut Creek and Ashtabula River Drainage Systems. Cleveland Museum of Natural History. Mimeo. September, 200. 1 pp.  Spetz, James. 2000. Summer Internship. Cleveland Museum of Natural History. Mimeo. September. 5 pp.
E/TER-1	3/1/1998	2/28/2000	Fortner, R.W. & Meyer, R.L. 2000. Discrepancies among teachers' priorities for and knowledge of freshwater topics. The Journal of Environmental Education 31(4): 51-53.
R/A-10	3/1/1998	2/29/2000	Johnson, R.M., T.M. Johnson, and R.L.Londrville. 2000. Evidence for leptin expression in fishes. J. Exp.Zool. In Press.  Niewiarowski, P.H., M.L. Balk, and R.L. Londrville. 2000. Murine injection raises metabolic rate in an ectotherm. J. Exp. Biol. In Press.
R/A-12	3/1/1998	2/28/2000	Sharp, K. 2000. Raising Double the Yellow Perch Soon Possible for Fish Farmers. Envision, June 19, 2000 issue.  Kolkovski, S., S. Czesny, and K. Dabrowski 2000. Use of krill hydrolysate as a feed attractant for fish larvae and juveniles. Journal of the World Aquaculture Society 31:81-88.
R/A-13-PD	3/15/1998	12/31/1998	Dabrowski, K., S. Czesny, S. Kolkovski, W.E. Lynch, Jr., P. Bajer, and D.A. Culver. 2000. Intensive culture of walleye larvae produced out of season and during regular season spawning. North American Journal of Aquaculture 62:219-224.
R/BT-3	9/1/1994	8/31/1997	Adhiya J, Cai X-H, Traina S and Sayre RT. 2000. Binding of aqueous cadmium by the lyophilized biomass of Chlamydomonas reinhardtii. in press, Journal of Colloid and Interface Science.



<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Publication</b>
R/CE-5	3/1/2000	2/28/2003	Jekeli, C. 2000. Heights, the Geopotential, and Vertical Datums. Technical Report, Department of Civil and Environmental Engineering and Geodetic Science, Ohio State University, November.
R/ER-38	9/1/1996	8/31/1998	Haltuch, M.A., Berkman, P.A. and Garton, D.W. 2000. Haltuch, M.A., Berkman, P.A. and Garton, D.W. 2000. Geographic Information System (GIS) Analysis of Ecosystem Invasion: Exotic Mussels in Lake Erie.. Limnology and Oceanography, in press.  Berkman, P.A., Garton, D.W., Haltuch, M.A., Kennedy, G.W. and Febo, L.R. 2000. Habitat Shift in Invading Species: Zebra and Quagga Mussel Population Characteristics on Shallow Soft Substrates.. Biological Invasions, in press.
R/ER-52-PD	7/1/1999	2/28/2002	McKay, R.M.L., S.W. Wilhelm, M.R. Twiss, M.L. Eldridge and G.S. Bullerjahn. 2000. Consideration of trace metal bioavailability in the Great Lakes: Paradigms, parallels and approaches. Submitted to Journal of Great Lakes Research.
R/ME-9	9/1/1988	8/31/1988	Hushak, Leroy J. 2000. Assessment of the Relative Economic Impacts of the Sport and Commercial Fisheries on Ohio's Lake Erie. Ohio Sea Grant College Program, Technical Summary OHSU-TS-026.
R/NP-1	3/1/1998	5/30/2001	Li, R., G. Zhou, S. Yang, G. Tuell, N.J. Schmidt and C. Foeler 2000. A Study of the Potential Attainable Geometric Accuracy of IKONOS Imagery. Proceedings of 19th ISPRS Congress, Amsterdam, July 16-23.  Zhou, G., and R. Li 2000. Accuracy Evaluation of Ground Points from IKONOS High-Resolution Satellite Imagery. Photogrammetric Engineering and Remote Sensing, 66(9): 1103-1112.  Li, R. 2000. Chapter 3. Data Models for Marine and Coastal Geographic Information Systems. In Wright, D. and D. Bartlett (Ed.): Marine and Coastal Geographical Information Systems. Taylor & Francis, pp.25-36.  Ali, T. and R. Li 2000. Spatial-temporal Modeling of Soil Erosion and Contaminated Sediment Transport in Lake Erie Coastal Area. ASPRS Annual Conference, Washington, D.C., May 22-26.
R/PS-17	9/1/1996	8/31/1998	Grasman, K.A., M. Armstrong, D.L. Hammersly, P.F. Scanlon, and G.A. Fox. 2000. Geographic variation in blood plasma protein concentrations in young herring gulls ( <i>Larus argentatus</i> ) and Caspian terns ( <i>Sterna caspia</i> ) of from the Great Lakes and Lake Winnipeg.. Comparative Physiology and Biochemistry C 125:365-375.
R/ZM-19-PD	4/1/1993	3/31/1994	Berg, D.J. and P.H. Berg. 2000. Conservation Genetics of Freshwater Mussels: Comments on Mulvey et al. (1997). Conservation Biology 14: 1920-1923.

**Number of Publications: 21**

# PUBLICATIONS FROM PROJECTS PUBLISHED IN 2001

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Publication</b>
A/EP-1	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.
E/E-1	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).
E/NIS-1	9/1/1997	8/31/1999	2001. ESCAPE Compendium of Classroom Activities. Great Lakes Education Network. IL-IN Sea Grant Publications: Purdue University. 40 activities in folder.
E/NIS-2	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.
E/TER-1	3/1/1998	2/28/2000	Fortner, R.W. & J.R. Corney 2001. Great Lakes educational needs assessment: Teachers' priorities for topics, material & training. <i>Journal of Great Lakes Research</i> (in press).
R/A-15-PD	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/BT-6	3/1/2000	2/28/2003	Adhaya J, Cai X-H, Sayre RT, and Traina SJ. 2001. Binding of Aqueous Cadmium by the Lyophilized Biomass of <i>Chlamydomonas reinhardtii</i> . (submitted to <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> ).  Rubinelli, P., Siripornadulsil, S., Gao-Rubinelli, F., and Sayre, R.T. 2001. Cadmium-inducible gene expression in <i>Chlamydomonas reinhardtii</i> . (accepted for publication in <i>Planta</i> ).  Siripornadulsil S, Traina, S, Verma, D-P and Sayre, RT. 2001. Molecular mechanisms by which proline protects microalgae from heavy metal stress. (in preparation for <i>Science</i> ).

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Publication</b>
R/CE-5	3/1/2000	2/28/2003	<p>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. <i>J. Geophys. Res.</i>, 106(C9), 19657-19669, September 15.</p> <p>Cheng, K., C. Shum, S. Han, Y. Yi, and D. Martin 2001. Application of GPS-buoy water level instrument for radar altimeter calibration. <i>IAG Symposium Series</i>, 123, M. Sideris (eds), 367-372, Springer-Verlage Berlin Heidelberg.</p>
R/ME-25	3/1/2000	2/28/2002	<p>Carrion, Carmen and Elena Irwin. 2001. Understanding the Spatial Pattern of Urban Sprawl in Medina County, Ohio. <i>Twinline</i>, May/June.</p>
R/NIS-4-PD	5/1/1997		<p>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. <i>Journal of Great Lakes Research</i>. 27(3):267-280.</p>
R/NIS-6-PD	3/1/1999	12/31/1999	<p>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" <i>Congeria kusceri</i> (Bivalvia: Dreissenidae). <i>Molecular Ecology</i> 10:1873-1879.</p> <p>Stepien, C.A. 2001. Research Review: The Origin of the Great Lakes Zebra Mussels (article by Jill E. Jentes, Ohio Sea Grant Communications). <i>Twine Line Article</i>, Ohio Sea Grant, July-August, p. 3.</p>
R/NIS-108-SG	9/1/1997	8/30/1998	<p>Stepien, C.A., B. Morton, K.A. Dabowska, R. A. Guarnera, T. Radja, and B. Radja. 2001. Genetic diversity and evolutionary relationships of the troglodytic "living fossil" <i>Congeria kusceri</i> (Bivalvia: Dreissenidae). <i>Molecular Ecology</i> 10: 1873-1879.</p>
R/NIS-109-SG	9/1/1997	8/31/1998	<p>Stepien, C.A. and A.K. Dillon. 2001. Phylogeography of the ruffe <i>Gymnocephalus cernuus</i> (Percidae): Glacial refugia, the leading edge hypothesis, and exotic introductions. <i>Evolution</i>, in review.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Publication</b>
R/NP-1	3/1/1998	5/30/2001	<p>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.</p> <p>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.</p> <p>Li, R., G. Zhou, N.J. Schmidt, C. Fowler and G. Tuell. 2001. Photogrammetric Processing of High-Resolution Airborne and Satellite Linear Array Stereo Images for Mapping Applications. International Journal of Remote Sensing, Accepted.</p> <p>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.</p>
R/PS-17	9/1/1996	8/31/1998	<p>Grasman, K.A., and G.A. Fox. 2001. Associations between altered immune function and organochlorine contamination in young Caspian terns (<i>Sterna caspia</i>) of the Great Lakes, 1997-99.. Ecotoxicology 10:101-114.</p> <p>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.</p>
R/ZM-9	9/1/1993	12/1/1997	<p>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" <i>Congeria kusceri</i> (Bivalvia: Dreissenidae). Molecular Ecology. 10:1873-1879.</p>

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**Number of Publications: 25**

# PRESENTATIONS FROM PROJECTS PRESENTED IN 2000

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Presentation</b>
A/EP-1	9/1/1978	2/28/2006	<p>Snyder, F.L. 2000. Lake Erie - agriculture's role. Crop Production Conference, Ohio Agribusiness Association and Ohio State University Extension, Columbus, Ohio.</p> <p>Snyder, F.L. and T.M. Brown. 2000. Composting nuisance mayflies for sanitary disposal. 43rd International Conference on Great Lakes and St. Lawrence River Research, Cornwall, Ontario.</p> <p>Sohnngen, B. and Lichtkoppler, F. 2000. Environmental Economics: Tools for determining the Benefits of Great Lakes Environmental Cleanup. 43rd Conference of the International Association for Great Lakes Research, May 22-26, 2000. Cornwall, Ontario, Canada.</p> <p>Hushak, L. and Lichtkoppler, F. 2000. Linking the Environment and Economics: the Ohio Charter Boat Industry in 1998. 43rd Conference of the International Association for Great Lakes Research, May 22-26, 2000. Cornwall, Ontario, Canada.</p>
E/NIS-1	9/1/1997	8/31/1999	<p>Goettel, R., Domske, H., &amp; Fortner, R. 2000. Activities for teaching about exotic aquatics. NMEA Annual Conference.</p>
E/NIS-2	10/1/1999	9/30/2001	<p>Fortner, R.W. and H.Lee. 2000. An interactive web site for teaching/learning about aquatic nuisance species. National Marine Educators Association Annual Meeting, Long Beach, CA. July.</p> <p>Hyonyong, Lee. 2000. Immerse yourself in aquatic education on the Internet. National Science Teachers Association Annual Meeting, St. Louis, March 26.</p>

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<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Presentation</b>
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M/P-1	9/1/1978	2/29/2004	<p>Reutter, J.M. 2000. Lake Erie Research and Research Needs. Outdoor Writers of Ohio's Year 2000 Convention. 12 May 2000. Stone Laboratory.</p> <p>Reutter, J.M. 2000. Making University Research More Useful for Resource Policy: Response on the Researcher Perspective. Workshop on linkages between academic research and environmental policy in the Great Lakes region. 12 April 2000. Ohio State University.</p> <p>Reutter, J.M. 2000. Research and Study Opportunities on Lake Erie. University of Akron 2000-2001 Geology Colloquium Series. University of Akron. 9 November.</p> <p>Reutter, J.M. 2000. The Changing Lake Erie Ecosystem. Testimony on SB 241. Senate Energy, Natural Resources and Environment Committee. State House. Columbus, Ohio. 29 March.</p> <p>Reutter, J.M. 2000. The Changing Lake Erie Ecosystem: Nutrient Loading, Exotic Species and Fishery Interactions. 29 January 2000. 28th Annual Meeting of the Great Lakes Sport Fishing Council. Rosemont Convention Center. Chicago, Illinois. Committee. State House. Columbus, Ohio. 29 March.</p> <p>Reutter, J.M. 2000. The Changing Lake Erie Ecosystem: Nutrient Loading, Exotic Species and Fishery Interactions. Glacial Lakes Symposium. Western Pennsylvania Conservancy. Glacial Lakes Symposium. Edinboro University. Edinboro, Pennsylvania.</p> <p>Reutter, J.M. 2000. The Importance of Scholarships at Stone Laboratory. Oakland Park Conservation Club. Columbus, Ohio. 11 April.</p>
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R/A-10	3/1/1998	2/29/2000	<p>R.Londrville, C.S. Duvall*, I. Wolf*, L.DiPietro**, and B. Smith**. 2000. Evolution of fat metabolism; role of leptin in fishes. Presented at the 2000 Evolution meetings, June 23-27 Bloomington, IN.</p> <p>P. Niewiarowski, M. Balk*, and R. Londrville. 2000. Phenotypic effects of leptin in an ectotherm: A new tool to study the evolution of life histories and endothermy?. Presented at the 2000 Evolution meetings, June 23-27 Bloomington, IN.</p>
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R/BT-3	9/1/1994	8/31/1997	<p>Sayre, RT. 2000. Applications of genetically altered algae for the recovery of toxic trace metals from the environment. US-China Chemical Engineering Conference: Environmental Symposium, Beijing, Sept 25-28, 2000.</p> <p>Sayre RT. 2000. Metal grabbing algae: bioengineering algae to cleanup heavy metal pollution. Department of Biology, Lakehead University, Canada.</p>
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<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Presentation</b>
R/BT-4	3/1/1998	2/28/2000	<p>Sayre, RT. 2000. Applications of genetically altered algae for the recovery of toxic trace metals from the environment. US-China Chemical engineering: Environmental Symposium. US-China Chemical engineering: Environmental Symposium, Beijing, Sept. 25-28, 2000.</p> <p>Sayre RT, Siripornadulsil S and Pal Verma, DP. 2000. Enhancement of the heavy metal binding capacity of Chlamydomonas reinhardtii cells by expression of foreign genes regulating cysteine and proline synthesis.. 9th International Conf. On the Cell and Molec. Biol. Chlamydomonas. Amsterdam, Netherlands.</p> <p>Sayre RT. 2000. Heavy metal binding capacity of Chlamydomonas cells expressing genes encoding synthetic heavy metal binding proteins. Biotechnology of Microalgae Conference Potsdam, Germany.</p> <p>Sayre RT. 2000. Metal grabbing algae: bioengineering algae to cleanup heavy metal pollution. Department of Biology, Lakehead University, Canada. Also presented at Environmental Education Council of Ohio, Newark, OH.</p>
R/BT-6	3/1/2000	2/28/2003	<p>Sayre, RT. 2000. Applications of genetically altered algae for the recovery of toxic trace metals from the environment. US-China Chemical Engineering Conference: Environmental Symposium, Beijing, Sept 25-28, 2000.</p> <p>Sayre, R.T., Siripornadulsil, S. and Pal Verma, D.P. 2000. Enhancement of the heavy metal binding capacity of Chlamydomonas reinhardtii cells by expression of foreign genes regulating cysteine and proline synthesis. 9th International Conf. On the Cell and Molec. Biol. Chlamydomonas. Amsterdam, Netherlands.</p> <p>Sayre, R.T. 2000. Metal grabbing algae: bioengineering algae to cleanup heavy metal pollution. Environmental Education Council of Ohio, Newark, OH, April 28.</p>
R/CE-5	3/1/2000	2/28/2003	<p>Shum, C. K., C. Jekeli, C. Y. Kuo, and Y. Yi. 2000. Monitoring lake level changes using satellite altimetry and GPS-buoys. National Sea Grant College Program a Program Assessment Team (PAT) visit, Ohio State University, September 25.</p> <p>Tseng, H., C. Shum, C. Zhao, and J. Lin. 2000. Absolute sea level measurements from tide gauges and adjacent geodetic station vertical motion solutions. 25th General Assembly of the EGS in Nice, France, April 24-29.</p> <p>Schoene, T., A. Braun, C. Reiber, M. Rentsch, and C. Shum. 2000. Concept for using GPS Buoys for RA drift monitoring. ERS-ENVISAT Symposium, Gothenbury, Sweden.</p> <p>Cheng, K., C. Shum, S. Han, M. Parke, K. Snow, Y. Yi, J. Benjamin, D. Mader, and G. Martin. 2000. GPS-Buoy water level instrument: Applications for radar altimeter calibration. IAG International Symposium on Gravity, Geoid, and Geodynamics 2000, July 31-August 4.</p> <p>Kuo, Chung-yen. 2000. Procedure to compute absolute lake level using topex/poseidon altimeter data, Technical Memorandum, Laboratory of Space Geodesy and Remote Sensing Research. The Ohio State University, July 27.</p> <p>Martinez-Benjamin, J., M. Martinez-Garcia, J. Garate, J. Martin-Davila, J., Ferrandiz, M. Vigo-Aguiar, M. Ortiz-Castellon, J. Talaya, B. Perez, G. Kruizinga, B. Haines, O. Colombo, B. Chao, C. Shum, M. Parke, S. Han, and K. Cheng 2000. The T/P CATALA altimeter calibration campaign. Spring AGU Meeting, Washington D.C. May 30-June 3.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Presentation</b>
R/EM-20	3/1/1998	2/28/2000	Boegman, L., Loewen, M., Hamblin, P., and D. A. Culver. 2000. Application of a Two-Dimensional Hydrodynamic and Water Quality Model to Lake Erie. Ocean Sciences Meetings, American Geophysical Union, San Antonio, Texas, January 26, 2000.
R/ER-39	3/1/1997	4/30/2001	Schaeffer, C. and D.A. Francko. 2000. The effects of mechanical, biological, and chemical treatment methods on an invasive plant, the giant reed <i>Phragmites australis</i> . Annual Meeting, Ohio Acad. Science, Ada, OH.  Schaeffer, C. and D.A. Francko. 2000. The effects of mechanical, biological, and chemical treatment methods on giant reed ( <i>Phragmites australis</i> ) in a Lake wetland. Annual Meeting, International Association of Great Lakes Research, Cornwall, Ontario.
R/ER-52-PD	7/1/1999	2/28/2002	McKay, R.M.L., Twiss, M.R., Bourbonniere, R., Qin, X. and Wilhelm, S.W. 2000. Effect of trace nutrient additions on phytoplankton growth and photosynthetic response in Lake Erie. 43rd Annual Conference on Great Lakes Research, Cornwall, ON.  Li, X., Qin, X. and McKay, R.M.L. 2000. Physiological response of two freshwater cryptomonads to Fe stress. 43rd Annual Conference on Great Lakes Research, Cornwall, ON.
R/ER-56-PD	3/1/2000	3/1/2001	Dingman, B.D., Park, L.E., and Fuller, N. 2000. Paleoenvironmental changes in a freshwater marsh: ecosystem response to salt contamination in Mentor Marsh, Ohio. GSA Abstracts with Programs, v. 32(7), p. 286.
R/LR-4	3/1/1998	2/28/2001	Stepien, C.A. 2000. Relationship of the "extinct" blue pike to walleye stocks in Lake Erie: Clues from DNA. Invited research presentation at the Lake Erie Protection Fund annual meeting, Sandusky, Ohio, September 2000.
R/ME-21-PD	6/1/1998	12/31/1999	Hushak, Leroy J. 2000. Valuing the Ottawa River: How Important is it to our Community?. At the Informational Brunch, Toledo, OH, December 8, 2000 and at the Profiling the Ottawa River IV, Toledo, OH, September 27, 2000.
R/NIS-3	3/1/1998	2/28/2002	Bombich, M.P., J.G. Miner, R.L. Lowe, A. Kireta. 2000. Benthic-pelagic coupling: effects of invading round goby on the Lake Erie ecosystem. International Association of Great Lakes Research, Canada.
R/NP-1	3/1/1998	5/30/2001	Li, R. and T. Ali 2000. High-resolution Airborne and Satellite Imagery for Spatio-temporal Modeling of Shoreline Erosion. PACON 2000, Honolulu, HI, June 5-9.



<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Presentation</b>
R/PS-17	9/1/1996	8/31/1998	<p>Grasman, K.A. 2000. Effects of persistent organic contaminants on the immune and endocrine systems of birds. Department of Biological Sciences, Wright State University, Dayton OH.</p> <p>McCleary R., F. M.A McNabb, and K.A. Grasman. 2000. Effects of pollutant chemicals on thyroid hormone excretion in birds. 2000 meeting of the Virginia Academy of Science, Radford, Virginia.</p> <p>McCleary R., F.M.A McNabb, and K.A. Grasman. 2000. Effects of pollutant chemicals on thyroid hormone excretion in birds. Virginia Journal of Science 51:78. [Published abstracts]</p> <p>Kelly, M.E.*, K.A. Grasman, and G.A. Fox. 2000. Gonadal histology of Great Lakes herring gulls (<i>Larus argentatus</i>). 2000 meeting of the Wildlife Society, Nashville, TN, September 12-16, 2000.</p> <p>Kelly, M.E.*, K.A. Grasman, and G.A. Fox. 2000. Gonadal histology of Great Lakes pipping embryos and 28-day herring gull chicks. Invited presentation for the 2000 meeting of the Society of Environmental Toxicology and Chemistry, Nashville, TN, November 13-16, 2000.</p> <p>Croisant, E.T., and K.A. Grasman. 2000. Methods for avian immunotoxicology: Lymphocyte isolation, cryopreservation, and immune assays for the chicken and herring gull. 40th Ohio Fish and Wildlife Conference, Columbus, Ohio, 18 February.</p> <p>McNabb, F.M.A., R.J.R. McCleary*, L.A. Fowler*, and K.A. Grasman. 2000. Thyroid function during development in chicken embryos exposed to PCB126.. 2000 meeting of the Society of Environmental Toxicology and Chemistry, Nashville, TN, November 13-16, 2000.</p> <p>McCleary R., F. M. A McNabb, and K.A. Grasman. 2000. UDP-glucuronosyltransferase (UDP-GT) activity in PCB-treated chicken embryos.. Second Gordon Conference on Environmental Endocrine Disruptors, Plymouth, New Hampshire.</p>

**Number of Presentations: 49**

# PRESENTATIONS FROM PROJECTS PRESENTED IN 2001

<u>Project Number</u>	<u>Initiation Date</u>	<u>Completion Date</u>	<u>Presentation</u>
A/EP-1	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. 109<sup>th</sup> 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>
E/NIS-2	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>
M/P-1	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> <p>Reutter, J.M. 2001. The Changing Lake Erie Ecosystem: Past, Present, and Future. Ashland University Environmental Lecture Series. Ashland, Ohio. 22 February.</p> <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.</p> <p>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.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Presentation</b>
R/A-10	3/1/1998	2/29/2000	Londrville, 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 <i>Perca flavescens</i> larvae in captivity. Book of Abstracts, Aquaculture 2001, January 21-25, 2001, Orlando Florida.
R/BT-6	3/1/2000	2/28/2003	<p>Sayre, RT. 2001. Applications of genetically engineered algae for agriculture. Department of Microbiology, Oregon State University, July 9.</p> <p>Sayre, R.T. 2001. Biological Engineering for Remediation. Lake Erie Millenium Conference. Windsor, Ontario, Canada, March.</p> <p>Sayre, RT. 2001. Genetic manipulation of heavy metal tolerance and binding capacity of the green alga, <i>Chlamydomonas reinhardtii</i>. Annual Meeting of Am. Phytopathol. Soc., Salt Lake City, UT August 27.</p> <p>Sayre, RT. 2001. Heavy metal tolerance in <i>Chlamydomonas</i> and its genetic manipulation. Rennslear Polytechnic University, Dept. Biology, September 10.</p> <p>Sayre, RT. 2001. Heavy metal tolerance in <i>Chlamydomonas</i> and its genetic manipulation. Lawrence Bogorad Symposium, Harvard University, July 28.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Presentation</b>
R/CE-5	3/1/2000	2/28/2003	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
R/ER-39	3/1/1997	4/30/2001	<p>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.</p> <p>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,</p>
R/LR-4	3/1/1998	2/28/2001	<p>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.</p>
R/ME-24	3/1/2001	2/28/2003	<p>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.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Presentation</b>
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	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
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		<p>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.</p> <p>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.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Presentation</b>
R/NIS-5-PD	9/1/1997	12/31/1997	<p>Carol A. Stepien and Alison K. Dillon. 2001. Genetic Identity of the invasive ruffe <i>Gymnocephalus cernuus</i> 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.</p> <p>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.</p> <p>C.A. Stepien and A.K. Dillon. 2001. Phylogeography of the ruffe <i>Gymnocephalus cernuus</i> (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.</p>
R/NIS-6-PD	3/1/1999	12/31/1999	<p>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).</p> <p>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.</p>
R/NIS-7	3/1/2000	2/28/2003	<p>Jeter L, K. Kozak and M. J. González. 2001. Intraguild predation between exotic <i>Echinogammarus ischnus</i> and native <i>Gammarus fasciatus</i> in Western basin Lake Erie. Binational Conference: Lake Erie in the Millenium Progress and New Issues, Windsor Ontario, Canada , 28-29 March.</p> <p>Kozak, K., and M. J. González. 2001. Effect of Inter-specific competition and fish on the spatial distribution of <i>Gammarus fasciatus</i> and <i>Echinogammarus ischnus</i>. Binational Conference: Lake Erie in the Millenium Progress and New Issues, Windsor Ontario, Canada , 28-29 March.</p> <p>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.</p> <p>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.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Presentation</b>
R/NIS-108-SG	9/1/1997	8/30/1998	<p>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.</p> <p>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.</p> <p>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.</p> <p>C.A. Stepien and A.K. Dillon. 2001. Phylogeography of the ruffe <i>Gymnocephalus cernuus</i> (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.</p>
R/NIS-109-SG	9/1/1997	8/31/1998	<p>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.</p> <p>Carol A. Stepien and Alison K. Dillon. 2001. Genetic Identity of the invasive ruffe <i>Gymnocephalus cernuus</i> 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.</p> <p>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.</p> <p>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.</p> <p>C.A. Stepien and A.K. Dillon 2001. Phylogeography of the ruffe <i>Gymnocephalus cernuus</i> (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.</p> <p>C.A. Stepien and A.K. Dillon. 2001. Phylogeography of the ruffe <i>Gymnocephalus cernuus</i> (Percidae): Glacial refugia, the leading edge hypothesis, and exotic introductions. Oral research presentations given by Dr. Stepien at the Society for Study of Evolution annual meeting held in Knoxville, Tennessee in June 2001 and at the annual meeting of the American Society of Ichthyologists and Herpetologists held at Pennsylvania State University in July.</p>

<b>Project Number</b>	<b>Initiation Date</b>	<b>Completion Date</b>	<b>Presentation</b>
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.
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, 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, May.
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.

**Number of Presentations: 70**



# Ohio Sea Grant College Program Progress Report 2000 - 2001

## **APPENDIX D**

### **COMMUNICATIONS**

**Publication Series & Distribution**

**Web Site**

**Newsletter**

**Media Relations & Coverage**

**Collaboration & Special Events**

**Displays**



# OHIO SEA GRANT COMMUNICATIONS

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

- Developing, promoting, evaluating, and enhancing the communication efforts of our researchers, educators, and extension specialists through such products as newsletters, fact sheets, displays, conferences, and our web site. Other outreach efforts include public programs, conference workshops, and radio and television broadcasts.
- Interacting and collaborating with the communication efforts of the National Sea Grant College Program, regional Sea Grant networks, other networks such as the Great Lakes Information Network, Great Lakes Communicators Network, and various environmental and research areas at The Ohio State University.

The following sections highlight accomplishments in a few selected areas for the time period of January 2000 – December 2001.

- Publication Series and Distribution
- Web Site
- Twine Line Newsletter
- Media Relations and Coverage
- Collaboration And Special Events
- 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 2000 - 2001. A complete list of all titles is also provided.

**Table 1. Publications Produced by Ohio Sea Grant<sup>1</sup>**

	B	FS	GS	N	PR	RS	TB	TS	TD	Total/Year
2000	3	17	-	6	2	13	11	2	3	57
2001	2	-	1	6	1	10	6	-	6	32
Total:	5	17	1	12	3	23	17	2	9	89

<sup>1</sup> Key: B=Brochures; 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-051a Stone Laboratory Summer 2000 Course Brochure packet.

B-051b Stone Laboratory Summer 2001 Course Brochure packet.

B-054a Aquatic Science Workshops and Field Trips at Stone Laboratory.

B-057 Ohio Sea Grant College Program Education and Research Projects Initiated between 1994 – 1999.

B-058 The Ottawa River, Toledo, Ohio: How Important is it to our Community?

B-059 Stone Laboratory Brochure (completely revised).

### Fact Sheets

FS-082 The Economics of Lake Erie Beaches: 1998 Lake Erie Beach User Survey Results.

FS-082a Camp Perry Beach: The Economics of Lake Erie Beaches.

FS-082b Conneaut Township Park: The Economics of Lake Erie Beaches.

FS-082c Crane Creek State Park: The Economics of Lake Erie Beaches.

FS-082d East Harbor State Park: The Economics of Lake Erie Beaches.

FS-082e Edgewater Beach: The Economics of Lake Erie Beaches.

FS-082f Euclid Beach: The Economics of Lake Erie Beaches.

FS-082g Fairport Harbor Beach: The Economics of Lake Erie Beaches.

FS-082h Geneva State Park: The Economics of Lake Erie Beaches.

FS-082i Headlands State Park (Mentor): The Economics of Lake Erie Beaches.

FS-082j Huntington Beach: The Economics of Lake Erie Beaches.

FS-082k Lakeshore Beach (Ashtabula): The Economics of Lake Erie Beaches.

FS-082l Lakeview Park (Lorain): The Economics of Lake Erie Beaches

FS-082m Lakeview Park (Port Clinton): The Economics of Lake Erie Beaches.

FS-082n Main Street Beach (Vermilion): The Economics of Lake Erie Beaches.

FS-082o Walnut Beach: The Economics of Lake Erie Beaches

FS-083 Aquatic Nuisance Species Alert: *Cercopagis pengoi* - The Fishhook Waterflea.

## **Guides**

GS-019c 2002 Western Lake Erie Waterfront Guide to Public Waterfront Access, Charter Fishing, Marinas and Boat Excursions.

## **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-004b NewsWaves: A Sea Grant Extension Newsletter for Economic Development. & 004C and Environmental Enhancement. (Spring 1999 and Spring 2000).  
PR-006 Lake Erie Programs at The Ohio State University: Media Coverage 1999.  
PR-007 Media Coverage 2000.

## **Reprint Series**

- RS-245 Phenotypic Effects of Leptin in an Ectotherm: A New Tool to Study the Evolution of Life Histories and Endothermy?
- RS-246 Evidence for Leptin in Fishes.
- RS-247 Modeling the Effects of Nutrient Concentrations on Ecosystem Stability: Framework for a Great Lakes model.
- RS-248 Potential of High Resolution Satellite Imagery for National Mapping Products.
- RS-249 Habitat Shift in Invading Species: Zebra and Quagga Mussel Population Characteristics on Shallow Soft Substrates.
- RS-250 In Vitro Effect of Gossypol Acetate on Yellow Perch (*Perca flavescens*) Spermatozoa.
- RS-251 Accuracy Evaluation of Ground Points from IKONOS High-Resolution Satellite Imagery.
- RS-252 The Effect of Vitamins C and E in (n-3) Highly Unsaturated Fatty Acids-Enriched *Artemia nauplii* on Growth, Survival, and Stress Resistance of Fresh Water Walleye.
- RS-253 Fertilization in Landlocked Sea Lamprey: Storage of Gametes, Optimal Sperm, Egg Ratio, and Methods of Assessing Fertilization Success.
- RS-254 Effects of Gossypol on Sperm Viability and Plasma Sex Steroid Hormones in Male Sea Lamprey, *Petromyzon marinus*.
- RS-255 The Aquatic Macrophyte Community at Put-in-Bay, Ohio.
- RS-256 Association of Organotin Compounds with Aquatic and Terrestrial Humic Substances.
- RS-257 Intentional Introductions of Nonindigenous Species: A Principal-Agent Model and Protocol for Revocable Decisions.
- 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* (Bivalvia: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.

#### **Technical Bulletins**

- TB-041 Catalogue of the Vascular Plants in Old Woman Creek Estuary and Watershed.
- TB-042 Valuing the Ottawa River: The Economic Values and Impacts of Recreational Boating.
- TB-043 Development of a Microprocessor-based Joint Tracking and Operation Guidance System for Underwater Welding.
- TB-044 F.T. Stone Laboratory: 1999 Program Review.
- TB-045 Ohio Sea Grant College Program Strategic Plan 2000-05 & Implementation Plan 2000-02.
- TB-046 Aquatic nuisance species report: An update on Sea Grant Research and Outreach Projects 2000.
- TB-047 Ohio Sea Grant College Program Progress Report 1998-1999.
- TB-048 Catalogue of the Vertebrate Fauna of Old Woman Creek Estuary, Watershed, and Environs.
- TB-049 Catalogue of the Invertebrate Fauna of Old Woman Creek Estuary, Watershed, and Adjacent Waters of Lake Erie.
- TB-050 Bibliography of Research Publications for Old Woman Creek Estuary, Watershed, and Adjacent Waters of Lake Erie.
- TB-051 Catalogue of the Algal Flora of Old Woman Creek Estuary, Watershed, and Adjacent Waters of Lake Erie.
- TB-052 Ohio Sea Grant College Program Progress Report 1999-2000.
- 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.

### **Technical Summaries**

TS-026 Assessment of the Relative Economic Impacts of the Sport and Commercial Fisheries on Ohio's Lake Erie.

### **Theses and Dissertations**

TD-078 The Effects of Zebra and Quagga Mussels (*Dreissena* spp.) on Survival, Growth, and Condition of Burrowing Mayflies (*Hexagenia* spp.) in Western Lake Erie.

TD-079 Phylogeny of the Family Dreissenidae based on Molecular Markers.

TD-080 The Impact of Zebra Mussels (*Dreissena polymorpha*) of Pelagic Food Webs.

TD-081 Toxic Microcystis in Western Lake Erie: Ecotoxicological Relationships with Three Nonindigenous Species Risks to the Aquatic Community.

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.

## 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 to each of Ohio's 88 counties through Ohio State University Extension and the State Library system, and through 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 hundreds of individuals: scientists, researchers, educators, and agency personnel.

Table 2 below shows the publication distribution for 2000–2001. Table 3 shows the different groups that requested materials for this time frame.

<b>Table 2. Materials Distributed:</b>	<b>2000</b>	<b>2001</b>
Fact Sheets <sup>1</sup>	55,531	22,754
Technical Publications <sup>2</sup>	190	4,785
Education Publications	7,948 <sup>3</sup>	1,732
Guides	252	889
Brochures	4,799	7,134
Books	1	8
Videos	-	1
<b><u>Stone Laboratory Materials:</u></b>		
Fliers	20,919	21,417
Course Brochure	3,037	3,444
Welcome Brochure	401	532
Posters	20,034	27,525
<b>Total:</b>	<b>113,112</b>	<b>90,201</b>

<sup>1</sup>Traditionally, Ohio Sea Grant's aquatic nuisance species fact sheets have accounted for a majority of the fact sheets distributed, as in 2000. 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. In 2001, the web versions of our aquatic nuisance species fact sheets were accessed approximately 24,500 times and could explain why our distribution numbers for "paper" fact sheets declined.

<sup>2</sup>Includes journal reprints, technical bulletins, and technical summaries. For 2001, the breakdown per category is as follows: 4,698 technical bulletins, 17 technical summaries, and 67 journals reprints.

<sup>3</sup>This figure includes approximately 4,100 copies of "Great Lakes for Kids" an activity hand-out that was distributed at the Lake Erie Nature and Science Center, and other events and workshops.



**Table 3: Audiences Requesting Materials: 2000 – 2001**

Audiences	Number of Requests	
	2000	2001
General public	145	232
Environmental organization/zoo/park/museum	35	19
K-12 student	27	16
K-12 Educator	43	30
University teacher	29	31
Government	44	37
Researcher	18	2
University student	5	9
Industry	13	6
<u>Stone Laboratory Materials</u>		
High school students	233	165
K-12 teachers	184	191
College students	213	364
College teachers	17	23
Others	45	37
<u>Special Events and/or Sponsoring Agency (see below)</u>	21	32
<b>Total:</b>	<b>1068</b>	<b>1194</b>

**2000 List**

American Association for the Advancement of Science Convention  
 Ashtabula Soil and Water Conservation District  
 Clarke County Soil and Water Conservation District – Aquatic Nuisance Species Workshop  
 Cleveland Boat Show  
 Cleveland Sport Show  
 Columbus Sport Show  
 Dayton Power Squadron for Dayton Sport Show  
 Environmental Education Council of Ohio Conference  
 Exotic Species Day Camps for Great Lakes Sea Grant Network  
 Great Lakes Student Summit  
 Illinois-Indiana Sea Grant  
 Lake Erie Nature and Science Center (two different events)  
 Mentor Lagoons Ship Festival  
 New York Sea Grant Teacher Workshop  
 Ohio Outdoor Writers Conference  
 Ohio Sea Grant & Stone Laboratory Winter Lecture  
 Old Woman Creek National Estuarine Research Reserve Teacher Workshop  
 River Heritage Festival (Ashtabula County)  
 Vermilion Harbor Association  
 Week of the Young Child Event at Ohio State University Child Care Center

## **2001 List**

Ashland College  
Cleveland Boat Show  
Cleveland Sport Show  
Coastal Zone 2001 Conference, Cleveland  
Columbus Sport Show  
Cuyahoga Congressional Assistants Tour  
Dayton Sport Show  
First Legislative Day at Put-in-Bay  
GLAERC meeting in Cleveland  
Indiana Dunes Workshops  
Lake Erie Conference 2001  
Mansfield 2001 Science Materials Fair  
National Peace Corps Conference on Global Change  
National Science Teachers Association Conference  
New York Sea Grant Education Workshops  
Ohio Legislature Hearings  
Ohio Sea Grant and Stone Laboratory Winter Lecture  
Ohio Sea Grant Charter Captains Conference  
Ohio Sea Grant Leadership Institute  
Ohio School Board Assoc Trade Show  
Ohio State House Testimony  
Ohio State University Biohio Expo  
Ohio State University Outreach and Engagement Event  
Old Woman Creek Visitor Center  
Perry's Monument  
Piqua Soil and Water Conservation District  
Sea Grant Week 2001  
Stone Laboratory Open House  
Schrock Lake Spectacular  
US EPA Large Lake Research Station  
Wright State University  
Walnut Springs Middle School

## Web Site

Ohio Sea Grant Communications designs and oversees the program web site: [www.sg.ohio-state.edu](http://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. In 2000 the web site was reorganized to make it more “user-friendly” allowing users to more easily access information about our research projects, programs, and publications. In 2001, the homepage for all Lake Erie Programs was redesigned so that new features could be easily seen and found on 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. PDF documents look exactly like the original and allow a person to read (or print) an on-line version that has the same format as the original material. 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. For example, traditionally Ohio Sea Grant’s aquatic nuisance species fact sheets have accounted for a majority of the fact sheets distributed (see Table 2: Materials Distributed). In 2001, the web versions of our aquatic nuisance species fact sheets were accessed approximately 24,500 times and could explain why our distribution numbers for “paper” fact sheets were lower for this year.

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	

## 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 and 2001. During this timeframe, there was a total of 258,165 “hits” to our entire site in 1999; 571,756 “hits” in 2000; and 988,631 for 2001. 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 4 shows information related to the number of hits and visitors to the site during this period.

**Table 4: Number of Hits and Visitors to the Ohio Sea Grant Website: 2000 and 2001**

<b>Hits and Users</b>	<b>2000</b>	<b>2001</b>
Number of Successful Hits for Entire Site	571,756	988,631
Average Number of Hits Per Day	1,562	2,708
Number of Unique Users	27,020	43,520

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 5 shows the most frequently requested pages and materials for this timeframe.

**Table 5: Most Frequently Requested Pages and Materials: 2000–2001**

**Fact Sheets**

- FS-032 Fish Smoked at Home.
- FS-045 Zebra Mussels in North America: The Invasion and its Implications
- FS-046 Lake Erie Water Quality: Past, Present and Future
- FS-049 The Spiny Water Flea, *Bythotrephes cederstroemi*: Another Unwelcome Newcomer to the Great Lakes.
- FS-054 Boaters: Take Action against Zebra Mussels
- FS-065 Round Gobies invade North America.
- FS-058 Zebra Mussel Migration to Inland Lakes and Reservoirs: A Guide for Lake Managers.

**Subject Directory**

- Aquatic Nuisance Species subject directory.
- Zebra Mussel subject directory.

**Other Pages**

- Current Events
- Job Opportunities
- Publications page
- Related Links
- Stone Lab summer courses
- Twine Line January 2000: Map showing range of the zebra mussel

During 2000 and 2001, the site was visited most frequently by people in North America, Europe, Asia, and Australia. Table 6 shows the top 10 locations of visitors to the web site by country per year.

**Table 6: Top 10 Locations of Website Visitors by Country: 2000 and 2001**

<b>2000</b>	<b>2001</b>
United States	United States
Canada	Canada
New Zealand	UK
UK	Australia
Australia	Netherlands
Japan	Japan
Netherlands	Germany
Germany	France
France	Spain
Singapore	Italy

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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 2000 marked *Twine Line*'s 22nd 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, *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."

## Survey

The Ohio Sea Grant College Program conducted a survey to evaluate our program and the *Twine Line* newsletter, one of our main outreach tools. The survey was developed in February-March 2000 and then field-tested and pilot-tested. Revisions were made based on the pre-tests and the final survey was mailed in July to a random sample of 500 people selected from our newsletter mailing list. After an initial group of surveys were returned, non-respondents were sent a follow-up post-card reminder. A second survey mailing and postcard reminder were also sent to people that never returned their surveys. A total of 171 usable surveys were returned; seven surveys were returned due to mailing address errors for an adjusted return rate of 34.6 percent.

The average age of respondents was 39, ranging from 17 to 92 years. Most (85%) were Ohio residents, and 52% were female. Fifty-two percent were employed full-time and 35% had graduate degrees. Because approximately one-third of the respondents identified themselves as “students” under the demographic information, we tested for respondent biases by comparing early, late, and student-only responses. Results showed that responses were not significantly different among the three groups.

***“The [Ohio Sea Grant] program and the F.T. Stone Lab program are jewels in Ohio’s crown.”***

***“The Program has increased its visibility and effectiveness year by year. A program like this is necessary for Lake Erie’s renewal and preservation.”***

One of the major findings from the survey was that most people’s main contact with our programs (communications and extension, education, research, Stone Laboratory) within the *past year* was through our newsletter. In addition, when asked to indicate all the types of contact “you have ever had with the Ohio Sea Grant College Program” over one-third of the respondents had: taken a course at Stone Laboratory (71%), heard about Ohio Sea Grant through the media (49%), interacted with Columbus or Put-in-Bay staff members (47%), visited our web site (40%), interacted with an Ohio Sea Grant Extension person (37%), and participated in an Ohio Sea Grant sponsored conference or program (37%).

The average response about the overall quality of interactions with Ohio Sea Grant staff members was between “good” and “excellent” (3.53 out of 4.00). In particular, respondents felt that staff members were able to provide technical assistance (3.77) and were knowledgeable about Lake Erie issues (3.74). Respondents felt that Ohio Sea Grant is effective in Lake Erie research (3.68), addressing issues such as aquatic nuisance species (3.60) and water quality (3.47), and effective with various educational programs and materials such as college courses at Stone Lab (3.87), teacher education workshops (3.75), and displays (3.25). Some items did score between “fair” and “good” including Ohio Sea Grant’s effectiveness on charter fishing development (2.95), boating safety and sales (2.92), and brownfield redevelopment (2.69). However, many respondents were not familiar with these issues and indicated that they did not have enough contact/interaction to comment for many of the items listed in these questions.

***“[Twine Line] covers Lake Erie issues. Who else does that?”***

***[It provides] regular, local Great Lakes information that is objective, understandable, and concise.”***

On average, respondents have been receiving *Twine Line* for 3.6 years, ranging from less than one year to over 20 years. Each issue is read by 2.6 people, and most (75%) of respondents keep each issue for reference. Respondents were very positive about the writing (4.47 out of 5.00), overall content (4.46), combined newsletter format (4.20), and design (4.13). When asked to rank order each section of the newsletter from most to least favorite, the top two sections were the “Feature Stories” and “Research Review.” The “Research Review” is a new section that began about two years ago.

When asked what topics they would like to see covered in the newsletter, the average response for many items was greater than 4.0 (out of 5.0; see chart). Topics that scored around 3.5 (moderate interest) included coastal engineering (3.56), economic development (3.45), swimming (3.45), waterfront development (3.43), and people profiles (3.38).

Aquatic Nuisance Species:	4.48
Current Research:	4.46
Water Quality:	4.46
Pollution:	4.41
Wetlands:	4.39
Natural History:	4.31
Stone Lab Courses:	4.31
Contaminants in Fish:	4.27
Lake Erie Area History:	4.22
How-to Features:	4.10

\*Scale: 1=Not at all interested to 5=Very interested.

Less than half the respondents (41%) knew that *Twine Line* was available through the Ohio Sea Grant web site. Of these people, 23% read the newsletter on-line. When asked about how they wished to receive *Twine Line* in the future, 93% (146) respondents stated that their first preference would be as a hard copy through the mail vs. electronically.

As a result of reading *Twine Line*, respondents stated that they learned more about Lake Erie (83%), made better informed decisions on Lake Erie (43%), used the information in an

educational setting (40%), and used the information in their work (40%)<sup>1</sup>. In addition, one respondent wrote that as a result of reading *Twine Line* “[my] parents donated preservation of wetlands on Middle Bass Island-East Point.”

The survey results document the status of the Ohio Sea Grant College Program among the respondents and the results will be used in planning future programs, determining newsletter articles, and improving service to our constituents.

<sup>1</sup> Respondents were instructed to check all options that applied.



## Media Relations and Coverage

Reporters frequently request information or contacts from Ohio Sea Grant. The Communications Coordinator has provided background information, interviews, and direction to other information sources. Reporters receive *Twine Line*, releases distributed by other University offices, and information from the Extension staff.

Communications staff distribute releases to the media through the Great Lakes Information Network (GLIN); The Ohio State University's Communications Office; the university's Section of Communications and Technology (which is part of the university Extension), and through a "key" contact list at all major media outlets in Ohio.

*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 that is syndicated to major media nationally.

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, the Communications staff has found it more efficient to conduct searches in-house, 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 list includes the articles and where they appeared for 2000 and 2001.

*GONGER NEWS SERVICE.*

March 31, 2000. "Blue herons create flap at dam." *CLEVELAND PLAIN DEALER.*

## **April**

Spring 2000. "Old Woman Creek & Coastal Enviro Ed." *OHIO COASTAL MNGT PROGRAM*.  
Spring 2000. "Studying Lake Erie smallmouth." *ODNR WILD OHIO*.  
Spring 2000. "New publications from Ohio Sea Grant." *COMMUNICATOR NSG*.  
Spring 2000. "Youths enjoy Sea Camp." *COMMUNICATOR NSG*.  
Spring 2000. "Great Lakes curriculum research." *COMMUNICATOR NSG*.  
Spring 2000. "Communicating and collaborating." *COMMUNICATOR NSG*.  
Spring 2000. "Recreational boaters spend 1.3 Billion." *COMMUNICATOR NSG*.  
Spring 2000. "Ashtabula river partnership." *COMMUNICATOR NSG*.  
April 2000. "Ohio Sea Grant publications available." *FISHWRAPPER*.  
April 2000. "Go versatile for Erie's April wal" *FISHWRAPPER*.  
April 2000. "Diversified Stock." *FUR-FISH-GAME*.  
April 02, 2000. "Fishing magazine praises Lake Erie." *CANTON REPOSITORY*.  
April 04, 2000. "Zebra mussels may be introducing toxins." *ASSOCIATED PRESS*.  
April 06, 2000. "Lake Erie update and angling seminar." *AKRON BEACON JOURNAL*.  
April 06, 2000. "Zebra mussels may introduce toxins." *PITTSBURGH POST GAZETTE*.  
April 12, 2000. "OSU research tackles heavy metals." *OSU NEWS SERVICE*.  
April 13, 2000. "Beacon Bits." *AKRON BEACON JOURNAL*.  
April 20, 2000. "Earth Day & every day, OSU research is global." *OSU ONCAMPUS*.  
April 20, 2000. "Mayflies could spoil walleye run." *CLEVELAND PLAIN DEALER*.  
April 22, 2000. "Pros point the way Using different methods." *BRAINERD (MN) DISPATCH*.  
April 28, 2000. "May is special time of year." *PORT CLINTON NEWS HERALD*.  
April 28, 2000. "Something fishy is lurking in Lake Erie." *BUFFALO NEWS*.  
April 30, 2000. "Hunters gobbling up turkeys." *COLUMBUS DISPATCH*.

## **May**

May 2000. "Ever-changing Lake Erie." *FISHWRAPPER*.  
May 2000. "Behavior's the key to catching walleye." *FISHWRAPPER*.  
May 2000. "More people toasting Lake Erie wines." *FISHWRAPPER*.  
May 2000. "Lake Huron Initiative Non-indigenous Species Action Plan." *GLMEQ*.  
May 2000. "Put-in-Bay family adventure" *BLACK SWAMP TRADER/FIRELAND GAZETTE*.  
May 2000. "What's that castle on Gibraltar?" *BLACK SWAMP TRADER/FIRELAND GAZETTE*.  
May 2000. "Elderhostle on Put-in-Bay." *PUT-IN-BAY GAZETTE*.  
May 07, 2000. "Reduced quota for walleye not so dire." *COLUMBUS DISPATCH*.  
May 07, 2000. "Getting on the lake." *CLEVELAND PLAIN DEALER*.  
May 07, 2000. "Birding 2000" *OTTAWA COUNTY VISITORS BUREAU*.  
May 08, 2000. "News and Info." *ODNR's DIVISION OF SOIL & WATER CONSERVATION*.  
May 11, 2000. "Faculty award for distinguished service." *OSU ONCAMPUS*.  
May 11, 2000. "Beach warnings cost businesses along lake." *ASSOCIATED PRESS*.  
May 11, 2000. "Ohio's Great Lake." *OHIO NEWS NETWORK LIVE TALK SHOW*.  
May 18, 2000. "ODNR weekly fishing report." *ASSOCIATED PRESS*.  
May 18, 2000. "Lake Erie is approaching an all time low." *WTAM-AM RADIO*.  
May 24, 2000. "ODNR weekly fishing report." *ASSOCIATED PRESS*.  
May 25, 2000. "Publications and Presentations." *ONCAMPUS*.  
May 29, 2000. "Boaters beware." *THE PRESS*.  
May 30, 2000. "Study documents negative effect of bacteria." *TOLEDO BLADE*.  
May 31, 2000. "The effects of Lake Erie's swift drop." *CLEVELAND PLAIN DEALER*.

## June

June 2000. "Lake Erie smallmouth." *FISHWRAPPER*.  
June 2000. "Outdoor writers visit islands." *PUT-IN-BAY GAZETTE*.  
June 2000. "Stone Lab lecture series." *PUT-IN-BAY GAZETTE*.  
June 2000. "Elderhostel programs promote island." *PUT-IN-BAY GAZETTE*.  
June 2000. "Best beaches in Ohio." *OHIO MAGAZINE*.  
June 2000. "Ohio's incredible Lake Erie smallmouth reefs." *OHIO GAME AND FISH*.  
June 2000. "Mayflies in Lake Erie." *MAYFLY NEWSLETTER*.  
June 2000. "Guiding Lights." *COUNTRY LIVING*.  
June 02, 2000. "ODNR weekly fishing report." *ASSOCIATED PRESS*.  
June 04, 2000. "Making beach dream a reality." *CLEVELAND PLAIN DEALER*.  
June 05, 2000. "Community Bulletin Board." *OSU TODAY*.  
June 06, 2000. "Communities lose bucks from advisories." *HILLSBORO TIMES GAZETTE*.  
June 07, 2000. "Foreign Cuisine." *EARTHWATCH RADIO WI SEA GRANT*.  
June 08, 2000. "Stone Lab announces lecture series." *ONCAMPUS*.  
June 08, 2000. "Lake Erie research not greasy kid stuff." *MIRROR*.  
June 08, 2000. "Distinguished staff awards". *OSU ONCAMPUS ONLINE*.  
June 08, 2000. "Distinguished staff awards". *OSU ONCAMPUS*.  
June 08, 2000. "Shipwrecks lure the curious to Erie's depths." *CLEVELAND SCENE*.  
June 12, 2000. "Summer 2000 Lecture Series." *OSUTODAY OSUToday@osu.edu*.  
June 15, 2000. "Beacon bits." *BEACON*.  
June 18, 2000. "ODNR looking for information." *MORNING JOURNAL*.  
June 22, 2000. "Stone Lab lecture series continues." *OSU ONCAMPUS*.  
June 22, 2000. "Researcher investigates walleye families." *LAKE FRONT NEWS*.  
June 23, 2000. "Mayflies bugging Canada." *PORT CLINTON NEWS HERALD*.  
June 23, 2000. "Lake fish report interesting." *PORT CLINTON NEWS HERALD*.  
June 25, 2000. "12 OSU workers receive top non-teaching award." *COLUMBUS DISPATCH*.  
June 26, 2000. "Forecasting System for Lake Erie." *GLIN ANNOUNCE*.  
June 26, 2000. "Stone Lab makes research fun." *THE PRESS*.  
June 28, 2000. "The cost of foul water." *TOLEDO BLADE*.

## July

Summer 2000. "Lake Erie Shipwreck Center." *OHIO COASTAL MANAGEMENT PROGRAM*.  
Summer 2000. "What's happening to the Lake Erie fishery?" *LAKE ERIE WALLEYE*.  
July 2000. "Plastics trigger summer action." *MID-AMERICA BOATING*.  
July 2000. "Nominations requested for Lake Erie Award." *FISHWRAPPER*.  
July 2000. "Low water warning by Stone Lab." *FISHWRAPPER*.  
July 2000. "Near shore fishing 'hot'." *FISHWRAPPER*.  
July 2000. "Hageman honored with award." *PUT-IN-BAY GAZETTE*.  
July 2000. "New boat at Stone Lab." *PUT-IN-BAY GAZETTE*.  
July 2000. "Low water warning issued by Stone Lab." *PUT-IN-BAY GAZETTE*.  
July 2000. "Stone Lab lecture series." *PUT-IN-BAY GAZETTE*.  
July 01, 2000. "Flea may sink its hooks into lake." *NEWS-HERALD*.  
July 03, 2000. "Low water warning issued." *THE PRESS*.  
July 09, 2000. "Effect of sun, moon on fish." *COLUMBUS DISPATCH*.  
July 09, 2000. "Wary eye cast on walleye." *COLUMBUS DISPATCH*.  
July 10, 2000. "Economist wants to examine cost of closings." *ASSOCIATED PRESS*.  
July 17, 2000. "Lake Erie water levels." *WTAM-AM MORNING SHOW*.  
July 20, 2000. "Stone Lab lecture series *OSU ONCAMPUS*." *OSU ONCAMPUS*.  
July 22, 2000. "Recreating Cooke Castle." *SANDUSKY REGISTER*.  
July 23, 2000. "Out of the water." *CLEVELAND PLAIN DEALER MAGAZINE*.  
July 31, 2000. "Scientists to meet at Stone Lab." *THE PRESS EAST TOLEDO*.  
July/August 2000. "250,000 reasons to keep Lake Erie clean." *OARDC REPORT*.

*GLIN ANNOUNCE.*

- September 13, 2000. "Stone Lab: Science lots of fun." *THIS WEEK IN HILLIARD*.  
September 19, 2000. "Poor visibility slows divers." *PORT CLINTON NEWS HERALD*.  
September 20, 2000. "ZM Impact on Microbenthic Community in Lake Erie." *WWW.ENN.COM*  
September 24, 2000. "Sunken sanctuary, historians create preserve." *COLUMBUS DISPATCH*.

**October**

- Fall 2000. "Students learn about environment." *CONSERVATION BEAT*.  
October 2000. "Ohio Lake Erie Awards." *FISHWRAPPER*.  
October 2000. "Research sheds new light on Lake Erie zebra mussels." *FISHWRAPPER*.  
October 2000. "Differing genetic stock in Lake Erie identified." *FISHWRAPPER*.  
October 2000. "There are ways to land Erie's autumn eyes." *FISHWRAPPER*.  
October 2000. "Several Lake Erie water snakes visit." *LEWS NEWS USFWS & ODNR*.  
October 01, 2000. "Fishhook waterflea latest pest to Lake Erie." *TOLEDO BLADE*  
October 08, 2000 "Outnumbered. Biologist battles politics." *CLEVELAND PLAIN DEALER*.  
October 26, 2000. "Richard Sayre plant biologist \$148,230 grant." OSU ONCAMPUS.

**November**

- November 2000. "Various grants support projects." *FISHWRAPPER*.  
November 2000. "Ohio Sea Grant receives award." *OSU ENVISION*.  
November 2000. "Lake Erie walleye season not over." *FISHWRAPPER*.  
November 19, 2000. "Melody on the outdoors." *AKRON BEACON JOURNAL*.  
November/December 2000. "Artificial reefs in the Great Lakes." *GLC ADVISOR*.

**December**

December 2000. "Stone Laboratory 2001." *OHIO STATE UNIVERSITY ALUMNI MAGAZINE*.

December 07, 2000. "Annual hidden benefits fair." *OSU ONCAMPUS*.

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ASSOCIATED PRESS

### **B**

BEACON (THE)  
BLACK SWAMP TRADER/ FIRELANDS GAZETTE  
BRAINERD (MN) DISPATCH  
BUFFALO (NY) NEWS

### **C**

CANTON (OH) REPOSITORY  
CLEVELAND (OH) PLAIN DEALER  
CLEVELAND (OH) PLAIN DEALER SUNDAY MAGAZINE  
CLEVELAND SCENE  
CLEVELAND SPORT SHOW  
COLUMBUS (OH) DISPATCH  
CONSERVATION BEAT  
COUNTRY LIVING MAGAZINE

### **D**

### **E**

EARTHWATCH RADIO WISCONSIN SEA GRANT  
ENVIRONMENTAL NEWS NETWORK WWW.ENN.COM

### **F**

FISHWRAPPER  
FREMONT (OH) NEWS-MESSENGER  
FUR-FISH-GAME

### **G**

GLIN ANNOUNCE  
GLMEQ  
GONGWER NEWS SERVICE  
GREAT LAKES COMMISSION ADVISOR  
GREAT LAKES BASIN NEWS  
GREAT LAKES SPORT FISHING COUNCIL

### **H**

HILLSBORO TIMES GAZETTE

### **I**

### **J**

### **K**

**L**

LAKE ERIE CONFERENCE 2000  
LAKE ERIE ISLAND HISTORICAL SOCIETY  
LAKE ERIE WALLEYE  
LAKE FRONT NEWS  
LAKELAND BOATING  
LAKESIDER (LAKESIDE OH)  
LEWS NEWS USFWS & ODNR

**M**

MAYFLY NEWSLETTER  
MID AMERICA BOATING  
MIRROR  
MORNING JOURNAL

**N**

NATURE MAGAZINE  
NATIONAL OCEANIC AND ATMOSPHERIC ASSOCIATION COASTAL SERVICES  
NATIONAL SEA GRANT COMMUNICATOR

**O**

OHIO COASTAL MANAGEMENT PROGRAM  
OHIO DEPARTMENT OF NATURAL RESOURCES SOIL & WATER CONSERVATION  
OHIO DEPARTMENT OF NATURAL RESOURCES WILD OHIO  
OHIO GAME AND FISH  
OHIO NEWS NETWORK TELEVISION  
OHIO STATE UNIVERSITY ALUMNI MAGAZINE  
OHIO STATE UNIVERSITY ENVISION  
OHIO STATE UNIVERSITY NEWS SERVICE  
OHIO STATE UNIVERSITY ONCAMPUS  
OHIO STATE UNIVERSITY ONCAMPUS ON LINE  
OHIO STATE UNIVERSITY OARDC REPORT  
OHIO STATE UNIVERSITY TODAY  
OHIO STATE UNIVERSITY OSUTODAY@OSU.EDU  
OHIO STATE UNIVERSITY WWW.OSU.EDU  
OHIO MAGAZINE  
OHIO OUTDOOR TIMES  
OTTAWA COUNTY VISITORS BUREAU

**P**

PHILLIPS-OSBORNE SCHOOL  
PITTSBURGH (PA) POST GAZETTE  
PORT CLINTON (OH) NEWS-HERALD  
PRESS (THE)  
PUT-IN-BAY (OH) GAZETTE

**Q****R**

RFD NEWS

**S**

SANDUSKY REGISTER  
SCIENTIST (THE)



**T**  
THIS WEEK HILLIARD OH  
TOLEDO BLADE (THE)

**U**  
UPPER ARLINGTON (OH) NEWS

**V**

**W**  
WASHINGTON POST (THE)  
WATM AM MORNING SHOW

**X**

**Y**

**Z**

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### **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, OFFICIAL GUIDE TO LAKE ERIE CIRLE TOUR  
LAKE ERIE SAFEBOATING COUNCIL RESOURCE HANDBOOK  
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 UNIVERSTIY 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**



## Collaboration and Special Events

Throughout 2000 and 2001, Ohio Sea Grant Communications had the opportunity to collaborate with other agencies and constituents on several special projects at the state and regional level:

**State Legislature/Congressional Day:** On July 21, 2000, Ohio Sea Grant and its private sector advisory committees hosted the 12<sup>th</sup> 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. Since 1985 this event has usually been held biennially. 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 (3 million since 1985); 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. In 2000, this event began a new schedule and will now be held in even numbered years rather than odd numbered years (i.e. 2002, 2004, etc.). This change will enable us to provide information to elected officials in a more timely manner with regards to the State's biennial program and budget process.

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.

**Great Lakes Communications Task Force/Great Lakes Communicators Network:** In 1998, the Communications Coordinator along with representatives from the Great Lakes Commission, International Joint Commission, Great Lakes Fishery Commission, the Ohio Lake Erie Commission, and the Ontario Ministry of Environment and Energy established a task force to address the need for improving communications between scientists/researchers and the media, the general public, and other targeted audiences. Meetings were held and conference sessions organized in 1999 and 2000.

In 2000, the Communications Coordinator took the lead in organizing a panel session with the Task Force at the International Association of Great Lakes Research (IAGLR) conference held in Cornwall, Ontario on the St. Lawrence River. The session "Researchers and the Media: Opportunities for Impact" was a follow-up to a successful session held at the IAGLR the previous year. Approximately 40 people attended this session that focused on the exchanges between researchers and the media in communicating science. The session highlighted past and current coverage of two pressing Great Lakes issues: lake levels and phosphorus. The session explored how media coverage and communications can have an impact on policy and research priorities.

**Aquatic Nuisance Species Alert: *Cercopagis pengoi* – the Fishhook Waterflea Poster:** This "mini-poster" was produced by Communications upon request by Congressman Steven LaTourette through the Great Lakes Environmental Research Laboratory (GLERL) in Ann Arbor, MI. The Congressman wanted us to develop the poster in a form that could be duplicated quickly and inexpensively and placed on bulletin boards by Memorial Day 2000. The

Congressman wanted the posters for use in his district and disseminated at marinas and tackle shops to alert anglers and boaters to the problem of a new invading species, *Cercopagis pengoi*. In addition to GLERL, the poster was developed with assistance from the Ontario Federation of Anglers and Hunters; the University of Windsor, Great Lakes Institute for Environmental Research; and the ODNR Division of Wildlife.

**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.

## Displays

Ohio Sea Grant Communications is responsible for designing and creating the displays that represent the program.

**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. Displays created for the Extension specialists have covered 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.

Since 1994, Ohio Sea Grant Communications Office has provided a display at the Columbus Sports, Vacation & Boat Show. The group has requested our continued participation and, because of the Columbus display, the organizers of the three-day Dayton Sport Fishing, Travel, and Outdoor Show asked for Sea Grant's participation. All the booth spaces have been donated.

**Lake Erie Nature and Science Center (LENSC) Display:** 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." In 1996, 124,000 people were involved in the Center's programs, including 12,000 students from Cuyahoga and Lorain Counties. 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, and water levels. With each exhibit Communications

provides related fact sheets and other materials for center visitors. The display is changed twice a year.

**National Sea Grant Display Posters:** In previous years, Communications has created display posters for the National Sea Grant College Program (these were created from highlight pages from the national brochure designed by Ohio Sea Grant in 1999).

In addition, this office created the 20<sup>th</sup> Anniversary poster for the Knauss/Sea Grant Federal Fellows Program. Smaller versions of the original poster were framed and used as awards during the Fellows receptions in Washington, DC in 2000 and 2001. All of the above-mentioned posters are now displayed at the National Sea Grant College Program office in Washington, DC.

# Ohio Sea Grant College Program Progress Report 2000 - 2001

## **APPENDIX E**

### **EXTENSION**

**Accomplishments 2000**

**2001**

**Activities**

**2000**

**2001**



# Ohio Sea Grant College Program Progress Report 2000 - 2001

## **APPENDIX E**

### **EXTENSION ACCOMPLISHMENTS 2000**



# **OHIO SEA GRANT EXTENSION PROGRAM AGENT ACCOMPLISHMENTS 2000**

## **I. Economic Leadership**

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

#### **1. Commercial Biotechnology**

#### **2. Environmental Technology**

Composting technology for sanitary disposal of mayflies accumulated on city streets was provided by request to a University of Windsor researcher for potential application by the communities of Colchester and Leamington, Ontario. This process was developed by a Lake Erie Protection Fund-sponsored Sea Grant development project and is in current use by the city of Port Clinton. (Snyder)

Snyder, F.L. and T.M. Brown. Composting nuisance mayflies for sanitary disposal. 43<sup>rd</sup> Conference on Great Lakes and St. Lawrence River Research. May 22-26, 2000. Cornwall, Ontario, Canada.

### **B. Seafood Production**

#### **1. Commercial Fisheries**

#### **2. Sustainable Aquaculture**

Ohio Sea Grant co-sponsored the Environmental Strategies for Aquaculture Symposium held in conjunction with the Midwest Fish and Wildlife Conference in Minneapolis, MN December 3-6, 2000 with a \$1,260 Ohio Sea Grant development fund grant. Ohio Sea Grant cooperated with aquaculture specialist Laura Tiu from the Piketon OSU Extension/Research Center and Dr. Ron Kinnunen of Michigan Sea Grant in this effort. Over 150 people attended the first day seminars and 60 participated in the second day workshops. (Lichtkoppler)

#### **3. Seafood Technology**

### **C. Coastal Economic Development**

Through the collaborative efforts of several governmental entities, Northern Ohio Lumber will be able to expand on the Master Metal site. The Agent was responsible for pulling together the deal team to get the Ohio EPA and the Federal EPA to work out the issues preventing this land for returning to productive reuse. The City of Cleveland approved a \$4000,00 loan and 10 year, 60% property tax abatement. The incentive package will allow the lumber producer to proceed with a \$1.4 million expansion project.

Ohio State University Extension has again partnered with WIRE. Net to provide 96 hours of classroom instruction to unemployed and underemployed residents of Cuyahoga County, to teach them manufacturing job training skills. The Agent will be providing 27

hours of classroom instruction in the following subject areas: Money Management, Balancing Work & Family and Effective Team Building. Currently 5 students are registered for the course. This course began on October 23, 2000 and will continue for 8 consecutive weeks.

Kelch serves as vice-chair, Board of Directors, for the Lorain County Visitors Bureau (LCVB). Kelch also serves on various board sub-committees, and chairs the board's policy committee. Meetings of the board and policy committee during October-December resulted in new procedures and policy for the LCVB. These new directives will enhance the efficiency of the LCVB, making it a more effective agency for tourism economic impacts.

Generation of coastal tourism during non-peak seasons is important for maintaining tourism economic impacts. Kelch has worked with the LCVB in securing events and activities for the spring 2001 Lake Erie Wing Watch, centered this year in Lorain County. As a result of contacts made, the Lorain County Chapter of Ducks Unlimited and The Lake Erie Nature and Science Center will be involved in the 2001 event, slated for April 7-8.

### **Coastal Business Development**

#### **Fishing**

180 licensed charter boat captains increased their Lake Erie knowledge and charter business skills by participating in Sea Grant's 19<sup>th</sup> Annual Ohio Charter Captains Conference. Among surveyed captains, 97% said they have used conference information to improve their operations. 82% said they have modified their boating, fishing and business practices using conference information. 60% said the conference has increased their overall profitability. (Snyder)

32 Michigan charter boat captains learned methods of adapting fishing techniques to Lake Erie's changing ecosystem through Ohio Sea Grant's participation in the Michigan Charter Boat Association annual conference. (Snyder)

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

Kelch assisted the Lorain County Visitors Bureau (LCVB) in producing their 2001 Angling Brochure. Kelch wrote the text and provided photos and other technical information. Lake Erie and sport angling is stated by the LCVB to be one of Lorain County's largest tourism impacts. The brochure is planned for distribution region-wide during early 2001. Kelch is also vice-chair of the LCVB's board of directors.

### **Coastal Recreation**

441 patrons of the 2000 Mid America Sail & Power Boat Show (Jan. 14-23) 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, F. Snyder, W. Williams and J. Hageman)

545 patrons of the 2000 Cleveland Sport, Travel and Outdoor Recreation Show (March 11-19) 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, W. Williams and J. Hageman)

The Lorain County Visitors Bureau has compiled the results of a 1999 Ohio Sea Grant initiated visitors survey. Eleven hotels participated in the project, with 435 usable surveys completed. The bureau indicates information gained from this survey will be valuable in both their marketing efforts, and also for the hotels within the county. (Kelch)

In June 2000, with the assistance of Ohio Sea Grant, the Mentor Lagoons Planning Committee designed a survey instrument and surveyed 168 Mentor boaters docking at Mentor Lagoons on their opinions on the development of the City owned and operated marina at Mentor Lagoons. Over 55% of those surveyed responded. (Lichtkoppler)

In June 2000, the Mentor Lagoons Planning Committee (with the assistance of Ohio Sea Grant) designed a survey instrument and surveyed 622 citizens of Mentor by mail on their attitudes and opinions on the development of Mentor Lagoons Preserve and Marina. Over 50% of those surveyed responded. (Lichtkoppler)

Waterfowl hunting at Lorain Harbor provides recreational opportunity and economic impacts through hunter expenditures. Working with the Lorain Port Authority, the City of Lorain and the Lorain Harbor Waterfowlers Association, Ohio Sea Grant provided requested information to the Corps of Army Engineers. As a result, waterfowl hunting opportunities will continue at Lorain Harbor. (Kelch)

Lichtkoppler received a \$1,200 Ohio Sea Grant development grant and used it to develop the databases for the 2000 Cleveland Boat and Sport Shows. These two data sets have been analyzed and are being used in the development of the research and education priorities for Ohio Sea Grant.

Plans are progressing in Y 2000 with local and state officials to prepare for Ohio's Bicentennial, in which Put-in-Bay will play a major role. The local theme will be to celebrate peace. The National Park Service's Perry International Peace Memorial is the nations third tallest monument. The monument promotes international peace to some 160,000 annual visitors annually. (Hageman)

Kelch serves on the Governor's Submerged Lands Advisory Council (SLAC), an appointed position. As part of this council, Kelch also serves on the Kellys Island Underwater Preserve (KIUP) Sub-committee, the Shipwreck Buoying (SWB) Sub-Committee, and chairs the Artificial Reef/Intentional Vessel Sinking (ARIVS) Sub-Committee.

Meetings of the KIUP committee, to establish an underwater preserve in the vicinity of



Kellys Island, have resulted in positive support for this effort from ODNR and the Village of Kellys Island, with the effort to proceed during 2001. The March KIUP meeting will feature a presentation by John Halsey, Michigan State Archaeologist and underwater preserve coordinator. Michigan preserves are proven to increase local Eco-Tourism and associated economic impacts.

SWB committee meetings to establish seasonal buoing of know popular shipwreck sites were conducted with representatives from the Great Lakes Carriers Association, Great Lakes Ship Captains Association, ODNR and sport/commercial dive clientele. These meetings were positive, with a final meeting with the US Coast Guard scheduled for February 2001. If approved by the USCG, this will be the first time seasonal buoing of wrecks has been permitted in Ohio waters. The purpose of buoing is for protection of historic maritime artifacts, diver safety and wreck location. Buoing is expected to have a positive economic impact on dive tourism and related businesses.

ARVIS committee meetings within SLAC and local dive groups have resulted in an effort to investigate an intentional vessel sinking north of Kellys Island. Volunteers from local dive clubs will be assisting in acquiring information about potential vessels in the area for intentional sinking. This effort will enhance dive tourism within the Kellys Island area, provide for fish habitat, and will compliment existing wreck sites and the planned underwater preserve.

#### **- Marine Trades**

Hushak, L. and Lichtkoppler, F. Linking the Environment and Economics: the Ohio Charter Boat Industry in 1998. 43<sup>rd</sup> Conference on Great Lakes and St. Lawrence River Research. May 22-26, 2000. Cornwall, Ontario, Canada.

#### **Coastal Community Development**

Twenty four Executive volunteers, trained by the Sea Grant agent to talk with executives from companies located outside of Ohio regarding their expansion plans, contacted 376 companies on February 9, 2000 and identified 17 potential expansion projects. These projects will ultimately lead to new jobs and investments in Northeast Ohio. (Williams)

Eight Executive volunteers trained by Williams contacted 80 companies, identified 10 projects and made 5 appointments to meet with company's officials at the National Manufacturer Week Trade show in Chicago, IL in February 2000. (Williams)

Ohio Sea Grant identified individuals from the state and federal EPA, the city, and local county officials to assist Northern Ohio Lumber in remediating the former Master Metal site for company expansion. When the state and federal requirements are met, Northern Ohio Lumber plans to purchase this property. February 16, 2000. (Williams)

Williams chaired the Ohio Economic Development Council's (OEDC) semiannual industry attraction and business retention telemarketing event. Eight OEDC members called on 310 companies and identified 7 companies with expansion projects. April 2000.

Eighteen participants completed the Pre Employment Training (PET) and were immediately hired by local companies. Another program is scheduled to begin in August 2000. Two additional companies have agreed to participate in the program. Also, Ohio State University's teaching hours have been increased from 25 classroom hours to 28. Cuyahoga County Extension will be requesting additional dollars from the commissioners to support the administration of this program. (Williams, 5/00)

Williams chaired the Ohio Economic Development Council's (OEDC) pre show marketing event for the National Plastic Exposition. Five OEDC members called on 170 companies. May 25, 2000.

Eighteen volunteers participated in a national telemarketing event organized by the Ohio Sea Grant agent. Volunteers contacted 376 companies identifying 23 active prospects that want to expand into Northeast Ohio. June 13, 2000. (Williams)

Ohio Sea Grant agent designed and administered an electronic business retention survey for the City of Brook Park. Tomas Coyne, Mayor, sent out the initial request to 131 businesses in Brook Park asking them to participate in this survey. As of June 14, 2000, 35% of the participating companies have responded to this survey request. (Williams)

Ohio Sea Grant agent assisted Geneden Biotech Inc. of San Diego, a company developing anti-fungal products. The four-employee business will move to Cleveland by April to be close to local medical centers, where it conducts clinical trials and research. (Williams)

New Jobs & Investments attracted to the coastal economy as a result of work by Williams:

Company	Investments	New Jobs
Yard Metals	\$ 500,000	10
Parks Mfg. Co.	\$ 1,250,000	60
A& L Shatto		5
Cleveland Gear	\$12,200,000	83
Geneden Biotech Inc.		5
Northstar	\$ 900,000	3
Dean Supply	<u>\$ 320,000</u>	<u>5</u>
<b>Totals</b>	<b>\$15,170,000</b>	<b>171</b>

Williams was part of the initial team to assist Cleveland Gear Co. move ahead in obtaining \$12.2 million in financial assistance to build an 80,000 square foot industrial facility. This company will continue its base of operation in the Bessemer/Kinsman industrial district. Portions of this site were cleaned of hazardous material.

Williams identified a team to assist Dean Supply with its expansion project. Individuals from the City of Cleveland, the Midtown Development Corp. and the City of Cleveland's Empowerment Zone are assisting in the acquisition of the property for Dean Supply's expansion.

### **Revitalize Marine Infrastructure**

Sea Grant was asked by the ODNR, Division of Watercraft to assist local officials in developing dredging grants. Data from the 1998 Ohio Sea Grant Recreational Boating survey was included in the grant application by the Fairport Harbor Port Authority FPPA. With information obtained by Ohio Sea Grant the FPPA also applied for a \$100,000 US Army Corps of Engineers feasibility study of the needs for recreational dredging of the Grand River. The feasibility study has been started by the USACE. (Lichtkoppler)

Sohngen, B. and Lichtkoppler, F. Environmental Economics: Tools for Determining Benefits of Great Lakes Environmental Cleanup. 43<sup>rd</sup> Conference on Great Lakes and St. Lawrence River Research. May 22-26, 2000. Cornwall, Ontario, Canada.

Organized business owners along the Toussaint River successfully acquired matching funding from private and government sources and dredged one mile of the river to its mouth, improving navigational safety and allowing some marinas to re-open for the first time in two years. This is a continuing effort by a group Snyder organized and led in establishing the Toussaint River as a federal harbor of refuge.

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

### **A. Coastal Ecosystem Health**

#### **Coastal Ecosystems**

Snyder, F.L. Lake Erie – Agriculture’s role. Ohio Crop Production Conference, January 7, 2000. Columbus, Ohio.

#### **Coastal and Great Lakes Habitats**

Snyder, F. L. Preliminary findings of non-target fish dispersal via live bait shipments in Ohio. 109<sup>th</sup> Annual Meeting of the Ohio Academy of Science, April 11, 2000 Ada, Ohio.

A statewide survey of over 100 live fishing bait purchasers and users was conducted to determine if bait handling practices might spread aquatic nuisance species. The data generated will be used in a Great Lakes-wide angler education program and in outreach activities of the Ohio Aquatic Nuisance Species Task Force. (Snyder, Hageman)

A narrated Power Point presentation entitled “Protecting Boats and Motors from Zebra Mussels” was videotaped for OSU Extension’s 2001 Pesticide Applicator Training Program. The presentation is required viewing for any potential boat bottom paint applicator seeking certification or re-certification. This presentation with an accompanying script also was adopted by the Great Lakes Sea Grant Network for inclusion into a Network CD on the spread and control of aquatic nuisance species. (Snyder)

A \$7500 grant from the Lake Erie Protection Fund was received by Snyder and the Ottawa County Visitors Bureau director to conduct an inventory of tourism resources in the Portage River Basin. An intern will be hired and trained to begin operations in Spring 2001.

An investigative committee organized and chaired by Snyder investigated the eligibility of the Portage River for State Scenic River status for the Portage River Basin Council. Recommendations from this committee resulted in a Council decision to redirect efforts into developing the Portage Basin as an ecotourism destination.

During July and August, artificial reefs at Lorain, Lakewood, Edgewater and Euclid were mapped using side-scan sonar and differential GPS. 150 and 75 meter transect patterns were run at each reef site in order to compose a final product mosaic-type map. The finished maps will be valuable to angler and diver user groups. Researchers and management agencies will also benefit from this detailed mapping. A new scuba diver has been contracted to perform data collection on the Stadium Artificial Reefs. This individual has received specific training on data collection and research technique to assure quality information is collected. (Kelch)

Additional side-scan sonar mapping occurred during September and October at select artificial reef sites. Data review and map creation during November and December will result in a finished product for use during the upcoming 2001 Cleveland Boat and Sport Shows. The final images and report should be available on the OSG web site during March, 2001 for clientele and scientific use.

The cooperative smallmouth bass tagging effort continues during the fall months, with data being collected by ODNR/DOW. To date, volunteers have tagged over 400 smallmouth bass on artificial reef sites during 2001, with more tagging expected in October and November. Poor weather has impacted spring and early fall efforts. This data will be used by ODNR and OSG to determine smallmouth movements, life history, catch/release mortality and artificial reefs use. This effort will continue during 2001.

Three research efforts are again underway to help better understand the benefits of artificial reefs. These projects are all in their second year and include the following:

- Monthly underwater video of the Cleveland Stadium artificial reefs
- Smallmouth bass tagging and recapture efforts at all artificial reef and near shore artificial reef sites (coop with ODNR/Division of Wildlife)
- Precision mapping of all artificial reefs using side-scan sonar and differential GPS (coop with ODNR, Geological Survey) (Kelch)

Hageman has co-chaired nine annual Put-in-Bay Underwater Clean-Up events that have taken place during the national Coastweeks celebration 1991 to 2000. Divers team up with land based volunteers to remove hundreds of pounds of litter beneath the municipal docks at Put-in-Bay, a popular boating and tourist destination. Ohio State University has been a sponsor since the events inception, providing equipment, refreshments and manpower.

### **Sustainable Development**

Lichtkoppler assisted the Lake County Solid Waste District in the development and design of a countywide curbside recycling survey to be implemented by the Lake County Extension Office in January 2001.

## **B. Public Safety**

### **1. Coastal Hazards**

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

95 youth learned more about water and boat safety during a one day Youth Conservation and Education event conducted by the National Wild Turkey Federation at the Belden Youth Wildlife area in Grafton. The use of PFD's, proper small boat loading and cold weather boat safety were stressed.

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

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

#### **Scientists and Engineers**

In 2000, 201 college students were enrolled in the 24 summer courses at Stone Lab and the lab hosted 85 researchers from 14 universities, state and federal agencies who conducted 23 research projects exploring Lake Erie's ecosystem. (Hageman)

A \$4,745 Ohio Sea Grant development grant helped us to develop a model for an Ohio Sea Grant Student Internship cooperative work experience. A student successfully completed a three month work experience assisting Dr. Tim Matson at the Cleveland Museum of Natural History investigate the fish, reptiles and amphibians of the upper Ashtabula River. The model successfully partnered Ohio Sea Grant with a local scientific organization to increase student training and add to the body of scientific knowledge. (Lichtkoppler)

Snyder and Lichtkoppler were appointed to Ohio State University Extension's Departmental Promotion and Tenure Committee to evaluate and assist other faculty members in the promotion and tenure process. This committee made promotion and tenure recommendations on nine OSU Extension faculty members to the College of FAES committee.

16 OSU Extension agents gained skills in developing scholarly work for juried publication and presentation in a training seminar planned and conducted by Snyder and other Extension agents.

At the request of the Vice President of Agriculture and Dean of the FAES College Lichtkoppler served as a member of the College of Food, Agricultural and Environmental Science (FAES) Promotion and Tenure Committee. The FAES College P&T Committee reviewed 25 P&T dossiers and writes recommendations on P&T for consideration by the Dean. Lichtkoppler represented the Department of OSU Extension on the committee.

At the request of the Ohio Sea Grant College Program, a presentation was made regarding Artificial Reef Development and Research to members of the 2000 National Sea Grant Program Performance Assessment Team. This presentation was made on September 27 at the Lake Erie Nature and Science Center in Bay Village, Ohio. (Kelch)

Lichtkoppler co-organized and co-chaired the session, Environmental Economics and the Great Lakes Basin, at the 43<sup>rd</sup> Conference on Great Lakes and St. Lawrence River Research on May 24, 2000 in Cornwall, Ontario, Canada. Eleven papers were presented at this session.

Accepted a \$250 donation for student scholarships to OSU's F.T. Stone Lab from the Fairport Harbor Rod and Reel Association. (Lichtkoppler, 5/00)

Stone Laboratory was prepared to receive scores of researchers, hundreds of college students and thousands of workshop attendees for the summer of 2000 research, teaching and outreach workshop season. (Hageman)

### **Resource Managers**

At the request of the Ohio Lake Erie Commission, a presentation was made regarding Artificial Reef Development and Research. This lecture was given on July 6<sup>th</sup> at the Ohio Lake Erie Board of Commissioners Meeting. Artificial reef development is included in the Lake Erie Commission's 2000 Lake Erie Protection and Restoration Plan. (Kelch)

### **3. Technical Training**

Hundreds of citizens and scores of educators learned of 1999 Stone Laboratory research results and the educational opportunities for the summer of 2000 at meetings of the Tri-Moraine Audubon Society, Science Educators Council of Ohio, the 25th Annual Educators Symposium and the Cleveland Boat and Sport Shows. (Hageman)

22 shipwreck archaeology students learned more about artificial reefs, Lake Erie shipwrecks and the impact of zebra mussels through a lecture on July 9<sup>th</sup>. These students are part of an on-going archaeology course offered through Bowling Green State University and the Great Lakes Historical Society. Dr. C.E. Herdendorf (OSU, Emeriti) teaches the three day course. (Kelch)

The Agent planned and organized the Business Retention & Expansion midyear retreat. All 12 of the board members attended the event. Board members participated in a visioning processes facilitated by the agent. October 00 (Williams)

Williams partnered with the Cleveland International Program, a professional exchange program of Bosnian adults that promotes peace. This program began last year under the terms of the Dayton Peace Accord, which ended the conflict in Bosnian among Muslims and ethnic Croats and Serbs. Nine Bosnian professionals visited Cleveland for a month to learn U.S. Businesses management techniques. These individuals are now working to rebuild their country. Williams taught a seminar on Cluster Analysis and Business Retention. According to a participant, although the setting of Cleveland and Bosnia are different, we can learn what worked in the city and adapt it to our country. (Alex Standeff, Vice President Community Development). July, 10, 2000

Williams designed a curriculum on Sales Training and provided instruction for 10

A Model for Remedial Action” was accepted for an oral presentation at the Coastal Zone 2001 Conference. (Lichtkoppler)

The abstract. “Mentor Lagoons - Community Stewardship of a Rare Coastal Resource,” was accepted for a poster presentation at the Coastal Zone 2001 Conference. (Lichtkoppler)

**B. Assure an Environmentally and Scientifically Informed Citizenry**  
**Pre-college Education**

Stone Laboratory was again a destination for 174 school groups involving 5,660 participants in our aquatic science workshop program, conferences and tours in 2000. (Hageman)

About 550 fifth grade students learned of the functions and importance of coastal wetlands at the Ottawa County 5<sup>th</sup> Grade Conservation Tour. (Snyder)

About 175 fourth grade students learn aquatic ecosystem concepts at Sandusky County’s 4<sup>th</sup> Grade Conservation Day. (Snyder)

The 17<sup>th</sup> Ohio 4H Sea Camp was conducted from July 10-14 at the Kellys Island 4H Camp. 90 youth from all over Ohio learned more about Lake Erie during this five day camp, including aquatic biology, weather, boating safety and small boat operation, sailing, angling practices, lure making, fish cleaning, snorkeling on a near-shore wreck, maritime history and island natural history. Since its beginning in 1984, over 1300 youth have learned more about the values of Lake Erie through participating in Ohio Sea Grant/OSU Extension Sea Camp. Ohio Sea Grant district specialists developed Sea Camp, and

continue to assist with camp planning, educational program development and on-site teaching. (Kelch)

Over 660 elementary school students gained knowledge of Lake Erie wetlands and aquatic ecosystems through Sea Grant presentations at Sandusky and Ottawa County Conservation tours. (Snyder)

Over 85 high school students learned more about Lake Erie, marine careers and water pollution prevention at classes taught by the agent at the tri-County Envirothon on October, 3, 2000. (Lichtkoppler)

### **Informal Education**

Sea Grant Extension agents responded to scores of questions from citizens at the Ohio Sea Grant exhibit (developed with the Ohio Sea Grant Communications Program) during the 2000 Mid America Sail & Power Boat Show (Jan 14-23). They distributed over 5,000 Sea Grant fact sheets to interested boaters and anglers. (D. Kelch, F. Lichtkoppler, F. Snyder, W. Williams and J. Hageman)

Dozens of anglers learned more about Lake Erie resources, issues and fisheries and received 1,000 Sea Grant fact sheets at the Eastlake Fishing Symposium, Feb.18 and 19, 2000. (Lichtkoppler)

Ohio Sea Grant Extension agents worked at the Sea Grant exhibit during the 2000 Cleveland Sport, Travel and Outdoor Recreation Show (March 11-19) and responded to scores of questions from show visitors. Over 7,500 Sea Grant fact sheets were distributed to interested citizens and anglers. (D. Kelch, F. Lichtkoppler, F. Snyder, W. Williams and J. Hageman)

Over 400 individuals learned more about current Lake Erie issues, artificial reefs, the impacts of exotic species at four educational seminars conducted during the 2000 Cleveland Sport, Travel and Outdoor Recreation Show (March 11-19). (Kelch)

Sea Grant Extension Advisory Committee members participated in Sea Grant Focus Group meetings in Unionville, Elyria, Sandusky and Toledo in February and March of 2000. Participants provided input for Sea Grant's Five Year Strategic Plan. Members commented on what we have been doing well, areas for improvement, and priority focus areas for the next five years. As a result, new goals and directions have been established and vital program management information was gained. (Kelch, Snyder, Bielen, Reutter and Lichtkoppler)

Thousands learned more about the recent changes in Lake Erie during a live radio interview on WTAM Radio, Cleveland, on March 15. (Kelch)

40 print and broadcast outdoor journalists acquired technical and recreational information about Lake Erie, Sea Grant and Stone Lab, and state natural resources programs at a four-day outdoor writer's conference conducted by Ohio Sea Grant. Media articles stemming



from this effort continue to appear in newspapers and magazines. (Snyder and Hageman)

27 pond owners learned pond management techniques taught in conjunction with the Fulton County Extension Office and Fulton Soil and Water conservation District. In addition, 43 pond owners were assisted in problem solving through individual consultation from February through June. (Snyder)

A series of 12 Ohio Sea Grant Extension case studies, written by all Sea Grant agents, was edited and produced into a set used to disseminate Sea Grant accomplishments to the national program assessment team, other Sea Grant programs, OSU Extension, advisory committees and the public. (Snyder)

22 business leaders learned of Lake Erie Issues and Sea Grant's role in coastal development through the Leadership Ottawa County program. (Snyder)

92 coastal business managers and professionals acquired lake levels information for decision-making through a series of four presentations on Lake Erie hydrology. (Snyder)

Over 280 individuals learned more about current Lake Erie issues regarding ecological changes in Lake Erie, exotic species, water levels, Sea Grant research and artificial reefs during five educational presentations. These educational forums included two seminars conducted at the Lake Erie Nature and Science Center, one seminar at the Steamship Mather Historical Society, and presentations to the Aqua Amigos Dive Club and the Lake Erie Bass Anglers Club. Thousands learned more about water levels and recent ecological changes in Lake Erie during two radio programs on WCPN, 93.3 fm, Cleveland public radio. (Kelch)

District Specialist David Kelch was the keynote speaker for the dedication and grand opening ceremony of the Lake Erie Shipwreck Center. Over 200 individuals learned more about recent changes in Lake Erie, the impact of zebra mussels, and the importance of the lake's underwater shipwreck heritage. The shipwreck center's computer information and education system was made possible from a grant through the Ohio Sea Grant College Program. Kelch serves on the Governor's Submerged Lands Advisory Council, which played an integral role in the development of the new center.

Over 145 individuals gained new knowledge about changes in Lake Erie, the goby and current fishery concerns from educational presentations to clientele groups (Cleveland Chapter, DAR, and West Cleveland Walleye Association). (Kelch)

Over 250 individuals learned more about current Lake Erie issues, ecological changes, exotic species, water levels, artificial reefs and Sea Grant based research through five lectures presented to the Polish Fisherman's Club, Cleveland Fishing Association, Lake Erie Bass Anglers, Central Basin Charter Boat Association and West Cleveland Walleye Association. Thousands learned more about Lake Erie issues, water levels and artificial reefs through radio programs on WWW-E and WCPN (Cleveland) and WOSU (Columbus)(Kelch)

Legislators and their representatives from one U.S. Senate office, nine U.S. House offices, seven Ohio Senate offices and 10 Ohio House offices joined Sea Grant and other Ohio State University administrators and personnel, advisory committee members, boat captains and guests for the 12<sup>th</sup> Annual Congressional/Legislature Day on Lake Erie. 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, Williams)

The Ohio governor along with state elected and agency officials and tourism workers became more familiar with Sea Grant Extension activities and accomplishments at Fish Ohio Day on Lake Erie. (Snyder)

Seven presentations provided educational information about Lake Erie to over 402 youth and adults. Seminar topics included: Youth: angling, aquatic education/conservation, changes in Lake Erie; Adult: Exotic species, Changes in Lake Erie, Changing Lake Levels, coastal tourism (LCVB Wing Watch), artificial reefs and general Sea Grant Program information. (Kelch)

The National Sea Grant College Program assessment and review of the Ohio Sea Grant College Program was held in September with the extension agents having a key role in the program assessment. Sea Grant programs receive a rating in four areas, plus an overall rating. Grades in each area can be 1) "needs improvement", 2) "good" (meeting the expectations of the National Sea Grant College Program), 3) "very good" (exceeding the expectations of the National Program), and 4) "excellent" (substantially exceeding expectations). Ohio Sea Grant received "very good" in "effective long range planning" and "organizing for success" weighted at 30% of the evaluation, and "excellent" in "connecting with users" and "producing significant results" weighted at 70% of the evaluation. As a result, our overall evaluation was "excellent". Sea Grant Extension (Outreach) also received an "excellent" rating, the highest category (Hageman, Kelch, Lichtkoppler, Snyder, and Williams)

# Ohio Sea Grant College Program Progress Report 2000 - 2001

## **APPENDIX E**

### **EXTENSION ACCOMPLISHMENTS 2001**



# 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 20<sup>th</sup> 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:**

<b>Company</b>	<b>Investments</b>	<b>New Jobs</b>
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 44<sup>th</sup> 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 10<sup>th</sup> 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 1/4 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 5<sup>th</sup> 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 18<sup>th</sup> 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](http://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 College Program Progress Report 2000 - 2001

## **APPENDIX E**

### **EXTENSION ACTIVITIES 2000**



YEAR	MONTH	DAY	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTER/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.
2000	1	4	Williams	BREI Communication Committee	Cleveland	BREI communication		4		
2000	1	5	Snyder	Lake Erie Buffer Team	Fremont	Cirriculum Development Planning	12		x	
2000	1	7	Snyder	Ohio Crop Production Conference	Columbus	Agriculture and Lake Erie	150			
2000	1	7	Williams	OEDC Conference Call TBZ	Cleveland	OEDC Teleblitz		3		
2000	1	7	Williams	Akron Warehous & Storage	Akron	Expansion, consultation	3			
2000	1	10	Snyder	Great Lakes Sea Grant Network Agents	Port Clinton	Conference Planning	8			
2000	1	10	Williams	Pre employment training mtg	Cleveland	Wire-Net Program PET	5			
2000	1	11	Hageman	Tri-Moraine Audubon Society	Lima	Stone Laboratory Research Overview	26			
2000	1	11	Lichtkoppler	Grand River Partners	Jefferson	Grand River Conservation	17			
2000	1	11	Williams	National Mfg Week team meeting	Cleveland	NMW ogranization			8	
2000	1	12	Hageman	Sea Grant Staff	Columbus	Sea Grant Strategic Planning	12			
2000	1	12	Snyder	Sea Grant Staff	Columbus	Sea Grant Strategic Planning	12			
2000	1	12	Kelch	Sea Grant Staff	Columbus	Sea Grant Strategic Planning	12			
2000	1	12	Williams	Sea Grant Staff	Columbus	Sea Grant Strategic Planning	12			
2000	1	12	Lichtkoppler	Sea Grant Staff	Columbus	Sea Grant Strategic Planning	12			
2000	1	12	Snyder	OSUE CD Agents	Columbus	Long Range Planning	20			
2000	1	12	Lichtkoppler	OSUE CD Agents	Columbus	Long Range Planning	20			
2000	1	13	Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14			
2000	1	13	Williams	CPP	Cleveland	Involving CPP in Economic activities	4			
2000	1	14	Snyder	Portage River Basin Council	Pemberville	Recreation & Wildlife	9	x	x	
2000	1	14	Williams	Clarkwood Industries	Cleveland	Expansion of site	4			
2000	1	14-23	Kelch	Cleveland Mid-America Boat Show	Cleveland	Sea Grant Information Booth				
2000	1	14-23	Lichtkoppler	Cleveland Mid-America Boat Show	Cleveland	Sea Grant Information Booth				
2000	1	14-23	Williams	Cleveland Mid-America Boat Show	Cleveland	Sea Grant Information Booth				
2000	1	17	Hageman	Pheasants-Forever Board	Oak Harbor	Monthly Meeting	X			10
2000	1	18	Hageman	Cleveland Mid-America Boat Show	Cleveland	Sea Grant Information Booth				
2000	1	18	Snyder	Cleveland Mid-America Boat Show	Cleveland	Sea Grant Information Booth				
2000	1	18	Williams	Economic Development Network	Cleveland	Ed. continuing Education	35			
2000	1	19	Snyder	Portage River Basin Council	Bowling Green	Committee Updates	21		x	
2000	1	20	Snyder	ANS Steering Committee	Columbus	Program Planning	12		x	
2000	1	21	Snyder	Northwest District Extension Staff	Findlay	Office Conference				10
2000	1	21-22	Snyder	Cleveland Mid-America Boat Show	Cleveland	Sea Grant Information Booth				
2000	1	24	Kelch	Lorain Port Authority, USCAE, Citizens	Lorain	Harbor Recreation Uses	15			
2000	1	24	Lichtkoppler	Mentor Marsh Area Regional Coalition	Mentor	Steering Committee	14			
2000	1	24	Williams	Brei Board conference call	Cleveland	BREI communication	12			
2000	1	25	Lichtkoppler	College Students	Lakeland Community College	Lake Erie Natural Resources	22			
2000	1	25	Williams	U Store it company visit	Cleveland	Sales training for workforce	3			
2000	1	25	Williams	IMARA School	Cleveland	consultation	3			
2000	1	26	Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Lake Erie, tourism		18		
2000	1	26	Lichtkoppler	Ashtabula River Partnership	Ashtabula	Clean-up Planning	20			
2000	1	26	Snyder	Sea Grant Staff	Columbus	Program Meeting				6
2000	1	27	Williams	P&T Seminar	Columbus	P&T Forum	35			
2000	1	27	Williams	Cuyahoga RAP mtg.	Cleveland	RAP				30
2000	1	28	Lichtkoppler	OSU Extension Staff	Cleveland	Grants Inservice				28
2000	1	28	Williams	PET	Cleveland	PET computer training	3			
2000	1	31	Lichtkoppler	Mentor MARC Task Force	Mentor	Wetlands/Biodiversity Planning	25			
2000	2	1	Lichtkoppler	Citizens	Mentor	Marsh /Metro Parks cooperation	5			
2000	2	3	Kelch	Cleveland Fishing Association	Cleveland	Changes in Lake Erie	74			
2000	2	3	Snyder	Great Lakes Sea Grant Network Agents	Port Clinton	HACCP Bait Project	6		x	
2000	2	7	Kelch	Cleveland Chapter, DAR	Cleveland	Zebra Mussels, Lake Erie	46			
2000	2	7	Kelch	Lorain Cty. Visitors Bureau Comm. Mtg.	Lorain	Tourism		12		
2000	2	7	Snyder	Advisory Service Program Leaders	Port Clinton	Conference Call	10			
2000	2	8	Kelch	Governors Submerged Lands Adv. Com.	Vermilion	Shipwreck Center, wrecks, diving	15			
2000	2	8	Snyder	Coastal Resource Managers	Huron	NOAA Photogrametry Workshop				30

YEAR	MONTH	DAY	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTER/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.
2000	2	8	Williams	Cuyahoga RAP- Social Economic mtg.	Cleveland	committee meeting				5
2000	2	9	Williams	National Tbz	Cleveland	Executive volunteers			18	
2000	2	9	Williams	Local TBZ	Cleveland	Executive volunteers			8	
2000	2	9	Williams	National Mfg Week team metg	Cleveland	Team members			10	
2000	2	10	Hageman	Sea Grant Staff	Columbus	Sea Grant Strategic Planning	12			
2000	2	10	Kelch	West Cleveland Walleye Association	Cleveland	Changes in Lake Erie	48			
2000	2	10	Snyder	Sea Grant Staff	Columbus	Sea Grant Strategic Planning	12			
2000	2	10	Lichtkoppler	Sea Grant Staff	Columbus	Sea Grant Strategic Planning	12			
2000	2	10	Williams	Sea Grant Staff	Columbus	Sea Grant Strategic Planning	12			7
2000	2	11	Lichtkoppler	Oh. Div. Watercraft Staff	Columbus	Cooperative Programming	15			
2000	2	11	Snyder	Oh. Div. Watercraft Staff	Columbus	Cooperative Programming	15			
2000	2	11	Williams	Oh. Div. Watercraft Staff	Columbus	Cooperative Programming	15			
2000	2	14-17	Snyder	Internat. Aq. Nuisance Species Conf.	Toronto, Ontario	ANS Baitfish Research	14			700
2000	2	15	Williams	Yard Metals Inc.	Independence	consultation	3			
2000	2	15	Williams	OEDC	Columbus	OEDC meeting	24	3		
2000	2	16	Lichtkoppler	NE Ohio Sea Grant Committee	Unionville	Sea Grant Focus Group	10			
2000	2	16	Williams	Northern Ohio Lumber	Cleveland	Brownfield remediation of site	15			
2000	2	17	Hageman	Science Educators Council of Ohio	Cleveland	Stone Laboratory Information	30			
2000	2	17	Williams	Dean Supply	Cleveland	Site expansion, brownfield	4			
2000	2	18	Williams	Quality Inn	Cleveland	Site evaluation	2			
2000	2	18-19	Lichtkoppler	Eastlake Sportfishing Show	Eastlake	Anglers, Citizens				
2000	2	22	Snyder	NW Dist. Sea Grant Advisory Comm.	Port Clinton	Sea Grant Focus Group			13	
2000	2	22	Williams	Pre employment training mtg	Cleveland	General mtg of PET partners	10			
2000	2	23	Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism issues		16		
2000	2	23	Lichtkoppler	Ashtabula River Partnership	Ashtabula	Clean-up Planning	21			
2000	2	24	Kelch	Sea Camp Planning Committee	Mansfield	Sea Camp planning, issues	12			
2000	2	24	Lichtkoppler	OSU Faculty	Wooster	OSU Research Foundation Inservice				23
2000	2	24	Williams	Business Succession Planning	Cleveland	Kent State Employee Ownership Ctr	33			
2000	2	25	Williams	Growing Newsletter	Cleveland	Edited Newsletter				
2000	2	25	Williams	Direct Mail distribution	Cleveland	MFG Eastside				
2000	2	25-27	Lichtkoppler	Citizens	Ashtabula	Land and Living Workshop				78
2000	3	1	Snyder	Fostoria Power Squadron	Arcadia	Lake Levels Outlook	34			
2000	3	1	Williams	Cuyahoga Rap	Cleveland	Remedial Action Plan committee mtg				32
2000	3	2	Kelch	OSG Advisory Com. Mtg., Focus Group	Elyria	OSG issues, planning, evaluation	24	x	x	
2000	3	2	Williams	Dean Supply	Cleveland	Dean Supply deal team mtg		6		
2000	3	3	Hageman	Sea Grant Staff	Lorain	Sea Grant Strategic Planning	11			
2000	3	3	Lichtkoppler	Sea Grant Staff	Elyria	Sea Grant Strategic Planning	11			
2000	3	3	Snyder	Sea Grant Staff	Elyria	Sea Grant Strategic Planning	11			
2000	3	4	Hageman	Rich DeLong	Toledo	Senior Intern Project	1			
2000	3	5-9	Williams	SAE Convention	Detroit, MI	Chair OEDC, R&E, Attraction		12		
2000	3	6	Snyder	GLSGN Extension Leaders	Port Clinton	Conference Call	7			
2000	3	7	Snyder	In-Betweeners Club	Fremont	Lake Erie History	57			
2000	3	9	Kelch	West Cleveland Walleye Association	Cleveland	Research updates, reef, goby	48			
2000	3	9	Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	16			
2000	3	9	Williams	Italian Consulate	Cleveland	Business Attraction, Host dinner		16		
2000	3	10	Lichtkoppler	Land and Water Committee	Painesville	Land Use Issues	7			
2000	3	10	Snyder	Portage River Basin Council	Pemberville	Scenic River Status	8	x		
2000	3	11	Hageman	Pheasants-Forever Membership	Sandusky	Annual Banquet			450	
2000	3	11-19	Kelch	Cleveland Sport, Vacation, Travel Show	Cleveland	Sea Grant Information Booth				
2000	3	11-19	Lichtkoppler	Cleveland Sport, Vacation, Travel Show	Cleveland	Sea Grant Information Booth				
2000	3	11-12	Snyder	Cleveland Sport, Vacation, Travel Show	Cleveland	Sea Grant Information Booth				
2000	3	12-16	Williams	National Mfg Week	Chicago	Convention		10		
2000	3	13	Snyder	Sandusky River Coalition	Tiffin	Watershed Protection				12
2000	3	14-16	Hageman	2000 Spring/Summer Applicants	Columbus	Spring/Summer Employee Interviews	26			

YEAR	MONTH	DAY	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTER/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.
2000	3	15	Kelch	WTAM Radio, Cleveland	Cleveland	Changes in Lake Erie				
2000	3	15	Kelch	Sport Show Seminars (2)	Cleveland	L. Erie Update, art. Reefs, gobies	140			
2000	3	15	Lichtkoppler	Mentor Lagoons Planning Committee	Mentor	Marina & Park Planning	18			
2000	3	16	Kelch	Sport Show Seminars (2)	Cleveland	L. Erie Update, art. Reefs, gobies	165			
2000	3	16	Lichtkoppler	Mentor MARC Task Force	Mentor	Wetlands/Biodiversity Planning	9			
2000	3	16	Snyder	Northwest District Extension Staff	Findlay	Office Conference				13
2000	3	17	Hageman	Stone Lab Scholarship Committee	Columbus	Summer 2000 Scholarship Awards	7			
2000	3	17-18	Snyder	Cleveland Sport, Vacation, Travel Show	Cleveland	Sea Grant Information Booth				
2000	3	18-19	Hageman	Cleveland Sport, Vacation, Travel Show	Cleveland	Sea Grant Information Booth				
2000	3	20	Hageman	Pheasants-Forever Board	Oak Harbor	Monthly Meeting				6
2000	3	20	Lichtkoppler	Citizens	Mentor	Boater Survey	5			
2000	3	21	Lichtkoppler	Grand River Partners	Painesville	Land Use Issues & Dam Removal	15			
2000	3	21	Lichtkoppler	Mentor Marsh Area Regional Coalition	Mentor	Steering Committee	11			
2000	3	21	Williams	Economic Development Network	Garfield Hts.	Transportation & Employment Central		42		
2000	3	22	Lichtkoppler	Citizens	Mentor	Mentor Lagoons Citizens Survey	4			
2000	3	22	Lichtkoppler	Ashtabula County OSU Extension	Jefferson	Sea Grant Program Update	19			
2000	3	22	Snyder	Kiwanis Club	Port Clinton	Lake Levels Outlook	28			
2000	3	27	Hageman	3 Dept. Meeting	Columbus	Summer Planning Meeting				13
2000	3	27	Williams	Business Mgt Excel	Columbus	Team meeting		8		
2000	3	28	Snyder	Sandusky River Coalition	Fremont	Watershed Protection				4
2000	3	28	Williams	Bosina, Development Professionals	Cleveland	Econ. Dev. in NEO		12		
2000	3	28	Williams	PET team mtg	Cleveland	final mtg prior to program		8		
2000	3	28	Williams	Traig Charlton/Nextlink	Columbus	OEDC telemarketing event prep.		3		
2000	3	29	Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism issues	18			
2000	3	29	Lichtkoppler	Ashtabula River Partnership	Ashtabula	Clean-up Planning	22			
2000	3	29	Lichtkoppler	Chagrin River Salmon Association	Eastlake	Lake Erie Research R/V Lake Guardian	42			
2000	3	29	Snyder	Dan Longnecker	Castalia	Aquaculture Development	1			
2000	3	30	Hageman	25th Annual Educators Symposium	Toledo	Stone Laboratory Opportunities	10			
2000	3	30	Snyder	D. Martin, J. Thomas	Port Clinton	Bielen Support Team Conf. Call	2			
2000	3	30	Williams	Cuyahoga RAP	Cleveland	Cuyahoga Rap				
2000	4	1	Snyder	Ohio Academy of Science	Ada	ANS Baitfish Research	27			
2000	4	3	Snyder	Sea Grant Staff	Columbus	Sea Grant Strategic Planning	10			
2000	4	3	Kelch	Sea Grant Staff	Columbus	Sea Grant Strategic Planning	10			
2000	4	3	Lichtkoppler	Sea Grant Staff	Columbus	Sea Grant Strategic Planning	10			
2000	4	3	Williams	Money 2000	Cleveland	PET program instruction	24			
2000	4	5	Lichtkoppler	Mentor Lagoons Planning Committee	Mentor	Develop Citizen Surveys	11			
2000	4	5	Snyder	Future OSU Students	Columbus	College Admission Workshop	33			67
2000	4	6	Kelch	Sea Camp Planning Committee	Ashland	Sea Camp planning, issues	10			
2000	4	6	Lichtkoppler	Wetlands Biodiversity Task Force MARC	Mentor	Mentor Marsh Wetland Enhancement	6			
2000	4	6	Lichtkoppler	N. Coast Charter Captains Assoc.	Grand River	Lake Erie Charter Fishing Survey Resul	46			
2000	4	7	Williams	Business Excel	Cleveland	Business Excel instruction	10			
2000	4	8	Hageman	Lake Erie Charter Captains	Sandusky	Ohio Charter Captains Conference	185			
2000	4	8	Snyder	Lake Erie Charter Captains	Sandusky	Ohio Charter Captains Conference	185	x	x	
2000	4	10	Hageman	U.N.I.T.S.	Gibraltar Island	Assist Installers of T-1 Line			8	
2000	4	10	Kelch	WCPN Radio, Cleveland	Cleveland	Changes in Lake Erie				
2000	4	10	Snyder	NW District Extension Agents	Port Clinton	Research Conference Planning	4			
2000	4	10	Snyder	Brainerd, MN Daily Dispatch	Port Clinton	Lake Erie Walleye Interview				
2000	4	10	Williams	Money 2000	Cleveland	PET program instruction	24			
2000	4	11	Kelch	LENSC Lake Erie Update, Fish Seminar	Cleveland	Fisheries, exotics, changes, research	102			x
2000	4	11	Snyder	Lake Erie Buffer Team	Toledo	Team Activities Update	8		x	
2000	4	12	Lichtkoppler	Mentor Lagoons Planning Committee	Mentor	Develop Citizen Surveys	8			
2000	4	13	Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14			
2000	4	13	Snyder	Bataan Elementary Students	Port Clinton	Lake Erie Fisheries	78			
2000	4	14	Kelch	LENSC Mussel Mania Seminar	Cleveland	Zebra Mussels, Lake Erie	75			

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2000	4	14	Lichtkoppler	Land & Water Committee	Painesville	Land Use	6			
2000	4	14	Snyder	NW District Extension Spring Conf.	Lima	Extension Updates	150			
2000	4	14	Williams	Business Excel	Cleveland	Business Excel instruction	16			
2000	4	15-16	Hageman	Friends of Stone Lab, Bd. of Directors	Gibraltar Island	Strategic Planning Session				23
2000	4	16-19	Kelch	Great Lakes Sea Grant Network Conf.	Milwaukee, WI	Sea Grant Issues, Updates, Research	25		x	
2000	4	16-19	Lichtkoppler	Great Lakes Sea Grant Agents	Milwaukee, WI	Great Lakes Sea Grant Network	50			
2000	4	17	Williams	Money 2000	Cleveland	PET program instruction	24			
2000	4	18	Hageman	Kenwood Elementary II - Bowling Green	Gibraltar Island	Aquatic Science Workshop			46	
2000	4	18	Snyder	Northwest District Extension Staff	Findlay	Office Conference				14
2000	4	18	Snyder	Brainerd, MN Daily Dispatch	Port Clinton	Lake Erie Facts Interview				
2000	4	18	Williams	Northeast Spring Conference	Willoughby	OSU extension function				
2000	4	19	Hageman	Wynford High School - Bucyrus	Gibraltar Island	Aquatic Science Workshop			18	
2000	4	19	Williams	OEDC TBZ	Columbus	Marketing State of Ohio	12			
2000	4	19-20	Hageman	Kelley's Island School 5th & 6th grade	Gibraltar Island	Aquatic Science Workshop			15	
2000	4	20	Snyder	Prof. Walleye Tour	Catawba	Angler Interviews	26			
2000	4	20	Williams	Business Excel	Cleveland	Business Excel instruction	12			
2000	4	20-21	Hageman	Orange High School - Pepper Pike	Gibraltar Island	Aquatic Science Workshop			14	
2000	4	21	Hageman	Professional Walleye Trail	Port Clinton	Pro-Am Walleye Tournament				
2000	4	24	Hageman	St. Paul's-Girl Scout Troop #2553	Gibraltar Island	Aquatic Science Workshop			12	
2000	4	24	Williams	Money 2000	Cleveland	PET program instruction	24			
2000	4	24-25	Hageman	Jonathan Alder High School	Gibraltar Island	Aquatic Science Workshop			14	
2000	4	25	Lichtkoppler	CFAES P&T Committee	Columbus	Promotion & Tenure Cases	x			12
2000	4	25	Williams	CD agents meeting in Sandusky	Sandusky	CD Agents meeting				12
2000	4	25-26	Hageman	Northwood Middle School I	Gibraltar Island	Aquatic Science Workshop			40	
2000	4	26	Hageman	Northwood Middle School II	Gibraltar Island	Aquatic Science Workshop			50	
2000	4	26	Hageman	Roger Fisher	Gibraltar Island	Gibraltar Island Tour	1			
2000	4	26	Kelch	Lorain Cty. Visitors Bureau Bd. Mg.	Lorain	Tourism issues	15			
2000	4	27	Hageman	Westside Montessori School - Toledo	Gibraltar Island	Aquatic Science Workshop			41	
2000	4	27	Snyder	Chamber of Commerce	Port Clinton	Lake Levels Outlook	31			
2000	4	27	Snyder	Archbold, OH Radio	Archbold	Lake Erie Update				
2000	4	27	Snyder	Fulton Co. Pond Owners	Archbold	Pond Management	41			
2000	4	27-28	Hageman	Harding High School - Warren	Gibraltar Island	Aquatic Science Workshop			41	
2000	4	28	Hageman	Harding High School - Warren	South Bass Is. Lighthouse	Lighthouse Tour	41			
2000	4	28	Hageman	Sacred Heart School - Sandusky	Gibraltar Island	Aquatic Science Workshop			16	
2000	4	28	Williams	Cuyahoga County Space needs asses.	Cleveland	Space assessments for Cuyahoga		2		
2000	4	29	Hageman	Clay High School - Oregon	Gibraltar Island	Aquatic Science Workshop			21	
2000	5	1	Lichtkoppler	Lakeland Community College Students	Mentor	Lake Erie Economic Geography	32			
2000	5	1	Williams	Money 2000	Cleveland	PET program instruction	24			
2000	5	1-2	Hageman	Mills School I 6th grade - Sandusky	Gibraltar Island	Aquatic Science Workshop			45	
2000	5	2	Hageman	Sea Grant Staff	Columbus	Staff Conference / Strategic Planning	12			
2000	5	2	Kelch	Sea Grant Staff	Columbus	Staff Conference / Strategic Planning	12			
2000	5	2	Lichtkoppler	Sea Grant Staff	Columbus	Staff Conference / Strategic Planning	12			
2000	5	2	Snyder	Sea Grant Staff	Columbus	Staff Conference / Strategic Planning	12			
2000	5	2	Williams	Sea Grant Staff	Columbus	Staff Conference / Strategic Planning	12			
2000	5	2-3	Hageman	Mills School II 6th grade - Sandusky	Gibraltar Island	Aquatic Science Workshop			47	
2000	5	3	Lichtkoppler	OSUE Dept. P&T Committee	Columbus	Promotion & Tenure Case Review	10			
2000	5	3	Snyder	OSUE Dept. P&T Committee	Columbus	Promotion & Tenure Case Review	10			
2000	5	3	Williams	Balancing Work & Family, PET J.Thos	Cleveland	PET program instruction	24			
2000	5	3-4	Hageman	Mills School III 6th grade - Sandusky	Gibraltar Island	Aquatic Science Workshop			43	
2000	5	4	Williams	ARDB	Akron	Leads			5	
2000	5	4-5	Hageman	Mills School IV 6th grade - Sandusky	Gibraltar Island	Aquatic Science Workshop	50			
2000	5	5-6	Kelch	OSG State Advisory Comm. Mtg.	Stone Lab, Put-In-Bay	Sea Grant planning, evaluation, issues				x
2000	5	5-6	Hageman	Sewickley Academy - Pittsburgh, PA	Gibraltar Island	Aquatic Science Workshop			71	
2000	5	6	Hageman	O.S.U. Geology Class	Gibraltar Island	Aquatic Science Workshop			9	

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2000	5	6	Lichtkoppler	Advisory Committee	Put-In-Bay	Strategic planning	x			25
2000	5	6	Snyder	Sea Grant Extension Advisory Comm.	Put-in-Bay	Strategic Plan Development	7			25
2000	5	6-7	Hageman	Ohio Sea Grant Advisory Committes	Gibraltar Island	Strategic Planning Session				26
2000	5	8	Hageman	Elderhostel I	Gibraltar Island	Aquatic Science Workshop	30			
2000	5	8	Williams	East Cleveland Open Air Market	East Cleveland	Evaluation of East Cleveland Farmers	8			
2000	5	8	Williams	Money 2000	Cleveland	PET program instruction	24			
2000	5	8-9	Hageman	Mills School V 6th grade - Sandusky	Gibraltar Island	Aquatic Science Workshop			39	
2000	5	9	Williams	Cuyahoga RAP	Pennsulia	Social Economic committee			8	
2000	5	9-10	Hageman	Mills School VI 6th grade - Sandusky	Gibraltar Island	Aquatic Science Workshop			45	
2000	5	10	Hageman	Padua Franciscan High School	Gibraltar Island	Aquatic Science Workshop			4	
2000	5	10	Kelch	WCPN Radio, Cleveland	Cleveland	Lake levels				
2000	5	10	Lichtkoppler	Wetlands Biodiversity Task Force MARC	Ashland	Wetland Mitigation				7
2000	5	10	Lichtkoppler	Mentor Lagoons Planning Committee	Mentor	Develop Citizen Surveys	12			
2000	5	10	Snyder	NW District Extension Agents	Port Clinton	Research Conference Planning	4		x	
2000	5	10	Williams	Brownfield remediation program	Cleveland	Brownfield remeditation of site			32	
2000	5	11	Hageman	Ladyfield Catholic School - Toledo	Gibraltar Island	Aquatic Science Workshop			34	
2000	5	10-11	Hageman	Mills School VII 6th grade - Sandusky	Gibraltar Island	Aquatic Science Workshop			47	
2000	5	11-12	Hageman	West Carrollton/Miamisburg	Gibraltar Island	Aquatic Science Workshop			64	
2000	5	11-14	Hageman	Outdoor Writers of Ohio	Put-in-Bay	Writer's Conference	95		x	
2000	5	11-14	Snyder	Outdoor Writers of Ohio	Put-in-Bay	Writer's Conference	95	x	x	
2000	5	12-13	Hageman	Granville Elementary	Gibraltar Island	Aquatic Science Workshop			36	
2000	5	13	Hageman	Ladyfield Catholic School - Toledo	Gibraltar Island	Aquatic Science Workshop			28	
2000	5	14	Hageman	Rich Delong, St. Johns Jesuit H.S.	Gibraltar Island	High School Intern			1	
2000	5	15	Hageman	Elderhostel II	Gibraltar Island	Aquatic Science Workshop	28		28	
2000	5	15	Snyder	Reutter, Martin, Rohrer, Thomas	Port Clinton	Toledo Position Conf.Call	4			
2000	5	15	Williams	PET planning mtg	Cleveland	PET Planning Meeting	5			
2000	5	15	Williams	Money 2000	Cleveland	PET program instruction	24			
2000	5	15-16	Hageman	Perry/McCord M.S.- Worthington	Gibraltar Island	Aquatic Science Workshop			64	
2000	5	16	Williams	Economic Development Network	Cleveland	Economic Development Network	43			
2000	5	16-17	Hageman	Toth Elementary - Perrysburg	Gibraltar Island	Aquatic Science Workshop			64	
2000	5	17-18	Hageman	Toledo Horizons I	Gibraltar Island	Aquatic Science Workshop			55	
2000	5	18	Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	12			
2000	5	18	Snyder	Northwest District Extension Staff	Findlay	Office Conference				15
2000	5	18-19	Hageman	Toledo Horizons II	Gibraltar Island	Aquatic Science Workshop			41	
2000	5	19	Hageman	Woodward High School - Toledo	Gibraltar Island	Aquatic Science Workshop			19	
2000	5	19	Hageman	Lucas Co. Youth Treatment Center	Gibraltar Island	Aquatic Science Workshop			15	
2000	5	19	Hageman	Rogers High School - Toledo	Gibraltar Island	Aquatic Science Workshop			14	
2000	5	19	Lichtkoppler	CZM 2001 Committee	Cleveland	Local Input for CZM 01 Conference				23
2000	5	19	Snyder	Cleveland Plain Dealer	Port Clinton	Lake Levels, Fisheries Interview				
2000	5	20	Hageman	Girl Scout Troop # 2412 - Columbus	Gibraltar Island	Aquatic Science Workshop			19	
2000	5	20	Hageman	Vincent Burke/Dr. Robert Heath	Peach Point Research Lab	Radiation Safety Training				3
2000	5	20	Williams	BREI Continious R&E program	Portland, ME	Presentation to BREI certification class	16			
2000	5	22	Hageman	Elderhostel III	Gibraltar Island	Aquatic Science Workshop	30		30	
2000	5	22	Hageman	Amherst Steele Middle School	Gibraltar Island	Aquatic Science Workshop				
2000	5	22	Williams	BREI Communication Committee	Portland, ME	Webb site stats.	80			
2000	5	22-23	Hageman	Robinson Jr. High - Toledo	Gibraltar Island	Aquatic Science Workshop			29	
2000	5	22-23	Hageman	All Saint Catholic School - Rossford	Gibraltar Island	Aquatic Science Workshop			20	
2000	5	22-26	Lichtkoppler	Int'l Assn. Of Great Lakes Research	Cornwall, Ontario	IAGLR 2000 Conference (presentations)	125	x		
2000	5	23	Kelch	Sea Camp Planning Committee	Kellys Island	Planning, gear inventory, boat repair	12			
2000	5	23	Snyder	Boy Scout Troop 312	Fremont	Citizenship	8		x	
2000	5	24	Hageman	Perkins (New Horizons)	Gibraltar Island	Aquatic Science Workshop			33	
2000	5	24	Hageman	Springfield South High School	Gibraltar Island	Aquatic Science Workshop			9	
2000	5	24	Kelch	Lorain Cty. Visitors Bureau Bd. Mtg.	Lorain	Tourism issues	17			
2000	5	24	Kelch	Aqua Amigos Dive Club	Cleveland	Artificial reefs, zebra mussel, research	62			



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2000	5	24	Williams	Mayfield teleblitz	Cleveland	Cleveland			5	
2000	5	24-25	Snyder	Int'l Assn. Of Great Lakes Research	Cornwall, Ontario	Mayfly composting	25			
2000	5	25	Hageman	Put-in-Bay School	Put-in-Bay	Award Ceremony Program	120		9	
2000	5	25	Williams	NPE Pre show telemarketing	Akron	NPE pre show marketing			5	
2000	5	25-26	Hageman	Englewood Elementary	Gibraltar Island	Aquatic Science Workshop			26	
2000	5	25-26	Hageman	Arlington Elementary - Toledo	Gibraltar Island	Aquatic Science Workshop			29	
2000	5	26	Hageman	Whittier 7th grade - Lorain	Gibraltar Island	Aquatic Science Workshop			31	
2000	5	26	Hageman	Back to the Wild, Nature Nursery	Castalia	Animal Rehabilitation				2
2000	5	30	Hageman	Grizzel Middle School I -Dublin	Gibraltar Island	Aquatic Science Workshop			63	
2000	5	30	Lichtkoppler	SAMP / MARC	Mentor	SAMP Steering Committee				15
2000	5	30	Lichtkoppler	SAMP / MARC	Mentor	Full MARC meeting				25
2000	5	30	Snyder	Lucas Co. Ext. Staff	Toledo	Bielen Exit Mtg.				6
2000	5	30	Snyder	Cleveland Plain Dealer	Port Clinton	Lake Levels and Real Estate Interview				
2000	5	31	Hageman	Grizzel Middle School II - Dublin	Gibraltar Island	Aquatic Science Workshop			63	
2000	5	31	Hageman	Northern Ohio Assoc. of Herpetologists	Gibraltar Island	Lake Erie Island Snake Fauna			3	
2000	5	31	Hageman	Stone Laboratory Participating Depts.	Columbus	Courier Run				
2000	5	31	Snyder	NW Ohio Agencies and Academia	Toledo	Watershed Protection				300
2000	5	31	Williams	Inservice training Northwest District	Findlay	Business Excel	15			
2000	6	1	Hageman	U.N.I.T.S.	Gibraltar Island	T-1 Line Check Out			4	
2000	6	1	Hageman	Biological Sciences/Pharmacy Library	Gibraltar Island	Delivery of Journals/Closed Reserved			4	
2000	6	1	Hageman	O.S.U. Bookstore	Peach Point Research Lab	Set Up Bookstore			5	
2000	6	1	Hageman	Whiteford M.S. - Ottawa Lake, MI	Gibraltar Island	Aquatic Science Workshop			97	
2000	6	1	Lichtkoppler	OSUE Faculty	Painesville	P&T	1			
2000	6	1-2	Hageman	Jones Middle School - Columbus	Gibraltar Island	Aquatic Science Workshop			35	
2000	6	2	Hageman	Columbus Athletic Club	Catawba	Judge Walleye Tournament	100			
2000	6	2	Kelch	Lake Erie Bass Anglers Club	Elyria	Smallmouth tagging research project	22			
2000	6	4	Hageman	EEOB 125	Gibraltar Island	Week 1 College Class, Orientation	13			
2000	6	5	Hageman	Sea Grant Staff	Columbus	Staff Conference / Strategic Planning	10			
2000	6	5	Lichtkoppler	Sea Grant Staff	Columbus	Staff Conference / Strategic Planning	10			
2000	6	5	Snyder	Sea Grant Staff	Columbus	Staff Conference / Strategic Planning	10			
2000	6	5	Williams	Sea Grant Staff	Columbus	Staff Conference / Strategic Planning	10			
2000	6	6	Hageman	Stone Laboratory Participating Depts.	Columbus	Courier Run				
2000	6	6	Hageman	Dr. Ken Krieger, Heidelberg College	Tiffin	Summer Course Planning Meeting			2	
2000	6	6	Snyder	Lake Erie Buffer Team	Put-in-Bay	Buffer Materials Development				17
2000	6	6	Snyder	Great Lakes Historical Society	Vermilion	Lake Erie History	41			
2000	6	7	Hageman	O.S.U. President Kirwan & Invitees	Columbus	2000 Outstanding Staff Awards				120
2000	6	7	Kelch	Steamship Mather Historical Society	Cleveland	Changes in Lake Erie	19			
2000	6	8	Hageman	Ashland Co./Huron County SWCD	Gibraltar Island	Aquatic Science Workshop			17	
2000	6	8	Hageman	Put-in-Bay Book Club	Gibraltar Island	Gibraltar Island Tour/Workshop	12			
2000	6	8	Hageman	Jim & Ann Harding	Put-in-Bay	Cooke Castle Renovation Meeting				3
2000	6	8	Lichtkoppler	Coastl Resources Advisory Council	Ashtabula	Coastal Management Program				21
2000	6	8	Lichtkoppler	OSUE staff	Painesville	Office Conference	5			
2000	6	8	Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	16			
2000	6	8	Snyder	NW District Extension Agents	Port Clinton	Research Conference Planning	6		x	
2000	6	11	Hageman	EEOB 126, GEO 107, NRE 690	Gibraltar Island	Week 2 College Class, Orientation	56			
2000	6	12	Williams	Political environment in Brownfied redeve	Cleveland	presentation (EEET)	8			
2000	6	13	Hageman	Stone Laboratory Participating Depts.	Columbus	Courier Run				
2000	6	13	Lichtkoppler	SAMP / MARC	Mentor	SAMP Steering Committee	9			
2000	6	13	Williams	National TBZ	Cleveland	telemarketing	18			
2000	6	14	Lichtkoppler	NE Ohio Sea Grant Advisory Committee	Unionville	Sea Grant Planning	9			
2000	6	14	Snyder	Agricultural Broadcasting Network	Fremont	Buffer Development				
2000	6	14	Williams	Advisory Board meeting	Cleveland	Advisory Board		6		
2000	6	15	Hageman	Laboratory Animal Protocol Committee	Peach Point Research Lab	Laboratory Animal Protocol/Safety	4			4
2000	6	15	Hageman	Visitors of Guest Lecture	Gibraltar Island	Chris Jones, Ohio E.P.A.			64	

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2000	6	15	Snyder	Great Lakes Agencies	Gross Ile, MI	Coastal Assessment Workshop	16			
2000	6	16	Hageman	Northwest District Office Staff	Put-in-Bay	Office Conference				20
2000	6	16	Snyder	Northwest District Extension Staff	Put-in-Bay	Office Retreat	19			
2000	6	18	Hageman	EEOB 621,651,652,694,/GEO 584	Gibraltar Island	Term 1 College Classes, Orientation	52			
2000	6	19	Lichtkoppler	Lake Co. OSUE Advisory Committee	Painesville	Office Budget	21			
2000	6	20	Lichtkoppler	Grand River Partners, Inc.	Chardon	Watershed Management	18			
2000	6	20	Lichtkoppler	Land & Living Committee	Jefferson	Community Development				80
2000	6	20	Snyder	Exchange Club	Sandusky	Lake Levels Updat	28			
2000	6	21	Hageman	Fred Snyder/Joe Conroy	Stone Lab Office	HACCP Bait Training Project				3
2000	6	21	Lichtkoppler	Mentor Lagoons Planning Committee	Mentor	Develop Citizen Surveys	11			
2000	6	21	Snyder	Conroy, Hageman	Put-in-Bay	HACCP Bait Training Project	2			
2000	6	22	Hageman	Visitors of Guest Lecture	Gibraltar Island	Dr. Jan Miller, U.S. Army Corp of Eng.			45	
2000	6	22	Snyder	NW Dist. Sea Grant Advisory Comm.	Port Clinton	Strategic Plan Development	10		x	
2000	6	22	Snyder	Port Clinton News Herald	Port Clinton	Mayfly Interview				
2000	6	23	Snyder	Canadian Broadcasting Co.	Port Clinton	Mayfly Composting Interview				
2000	6	24	Hageman	Diane Cantrell, O.D.N.R.	Gibraltar Island	NRE 691 Class Preparation				3
2000	6	24	Kelch	G.L. Hist. Soc. Shipwreck Center Ded.	Vermilion	Dedication, Changes in Lake Erie	210			
2000	6	25	Hageman	NRE 691	Gibraltar Island	National Curricula for Water Edu. Class	13			
2000	6	26	Hageman	B.G.S.U. Governors Summer Institute	Gibraltar Island	Aquatic Science Workshop			17	
2000	6	26	Hageman	Tim Granata, et al.	Gibraltar Island	Summer 2000 Research Project			5	
2000	6	26	Lichtkoppler	ECO Trek Teachers	Lake Erie	Lake Erie Coastal Tour	19			
2000	6	27	Hageman	Jill Stechshultz	Gibraltar Island	Island Tour	5		5	
2000	6	27	Lichtkoppler	Great Lakes Commission	Cleveland	Great Lakes Boating				6
2000	6	27	Snyder	Canadian Broadcasting Co.	Fremont	Mayfly Composting Live Interview				
2000	6	27	Snyder	NW District Extension Agents	Port Clinton	Research Conference Planning	5		x	
2000	6	28	Hageman	Dr. Jane Forsythe	Gibraltar Island	Prepare for Guest Lecture			2	
2000	6	28	Hageman	Stone Laboratory Student/Staff	Middle Bass Island	Softball Game, Gibraltar vs Middle Bass			25	
2000	6	28	Kelch	OSG Advisory Committee Mtg.	Elyria	Planning, updates, Legislative Day	21	x		x
2000	6	28	Lichtkoppler	Ashtabula River Partnership	Ashtabula	Public Outreach				6
2000	6	28	Lichtkoppler	Ashtabula River Partnership	Ashtabula	Project Development				16
2000	6	28	Lichtkoppler	Ashtabula River Partnership	Ashtabula	Coordination Committee				20
2000	6	29	Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. Jane Forsythe, Lake Erie Geology			63	
2000	6	29	Lichtkoppler	BDWetlands Task Force	Mentor	MARC Wetlands Work	5			
2000	6	29	Lichtkoppler	NOAA Coastal Mgt. Review Team	Painesville	OHIO Coastal Mangement Program	10			
2000	6	29	Williams	Article for BREI						
2000	7	5	Lichtkoppler	Plain Dealer	Painesville	Mentor Marsh				
2000	7	5	Snyder	National Post Newspaper Interview	Toronto, Ontario	Mayfly Composting				
2000	7	5	Williams	OSU Agents' mtg	Cleveland	Agents mtg.	8			
2000	7	6	Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. C.E. Herdendorf, Ship of Gold			95	
2000	7	6	Hageman	Ralph and Claudette Moore	Gibraltar Island	Stone Laboratory Tour	2			
2000	7	6	Snyder	PRBC Recreation & Wildlife Committee	Pemberville	Scenic River Designation	6	x		
2000	7	6	Williams	Agent review with Tom Blaine	Cleveland	Agent review	2			
2000	7	7	Kelch	Polish Fisherman's Club	Lorain	Lake Erie update, fisheries, research	45			
2000	7	7	Snyder	WOSU Radio Interview	Port Clinton	Mayflies				
2000	7	9	Hageman	EEOB 110, Intro to Local Flora	Gibraltar Island	Week 6 Class, Orientation	10			
2000	7	9-15	Kelch	17th Ohio 4-H Sea Camp,	Kellys Island	Lake Erie, fishing, biology, snorkeling	90		x	
2000	7	10	Hageman	B.G.S.U. - Governors Institute	Gibraltar Island	Aquatic Science Workshop			31	
2000	7	10	Snyder	Gary Wilson - OSUE	Findlay	Vita Review	1			
2000	7	10	Williams	Bosnia Herzegovina Business Dev.	Cleveland	Business Retention progams	9			
2000	7	10	Williams	BREI conference call	Call	BREI communication	9			
2000	7	10-11	Hageman	Louisiana Public Broadcasting System	Gibraltar Island	Film Exotic Species Documentary	4			
2000	7	11	Hageman	Sea Grant Staff PAT Planning	Huron	Program Planning and Extension				9
2000	7	11	Hageman	Glen Helen Ecology Camp	Gibraltar Island	Aquatic Science Workshop			7	
2000	7	11	Lichtkoppler	Sea Grant Staff PAT Planning	Huron	Program Assessment				8

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2000	7	11	Snyder	Sea Grant Staff PAT Planning	Huron	Program Planning	7			
2000	7	11	Williams	Sea Grant Staff PAT Planning	Huron	Sea Grant Agents	5			
2000	7	12	Hageman	Sandusky Register	Gibraltar Island	Cooke Castle Renovation Feature	2			
2000	7	12	Snyder	NFO Research	Northwood	Water Management	6			
2000	7	12	Williams	U-Store it Sales seminar	Columbus	U-Store it managers	9			
2000	7	13	Hageman	Visitors for Guest Lecture	Gibraltar Island	Steve Pollick, Iditarod Race				
2000	7	13	Lichtkoppler	WTAM Radio 1100am	Painesville	Lake Erie Lake Levels				
2000	7	13	Snyder	Anchors Away Marina	Lakeside	Lake Levels	4			
2000	7	14	Lichtkoppler	Mentor Lagoons Ship Festival	Mentor	Mentor Marsh				25
2000	7	15	Hageman	Kent State Univ. Geography Dept.	Gibraltar Island	Stone Laboratory Tour			21	
2000	7	15	Hageman	Backus Family	Gibraltar Island	Stone Laboratory Tour			4	
2000	7	15	Hageman	Bob and Carol Roth	Gibraltar Island	Stone Laboratory Tour	2			
2000	7	16	Snyder	Lakeside Historical Association	Lakeside	Lake Erie History	54			
2000	7	17	Williams	Lincoln Electric Econ. Dev.	Euclid	Build Up Euclid				48
2000	7	19	Lichtkoppler	Mentor Lagoons Planning Committee	Mentor	Mentor Lagoons	10			
2000	7	19	Snyder	Governors Day on Lake Erie	Port Clinton	Tourism Development	24			150
2000	7	20	Hageman	Dr. F. Domonic Dattavio	Gibraltar Island	Stone Laboratory Tour			5	
2000	7	20	Hageman	ODNR Watercraft	Gibraltar Island	Stone Laboratory Tour	4			
2000	7	20	Hageman	Term II Students	Gibraltar Island	Stone Laboratory Orientation	28			
2000	7	21	Hageman	State Legislature/Congressional Day	Gibraltar Island	Lake Erie Legislative Issues				159
2000	7	21	Kelch	State Legislature/Congressional Day	Sandusky/Put-in-Bay	Sea Grant & Lake Erie issues				x
2000	7	21	Lichtkoppler	State Legislature/Congressional Day	Sandusky/Put-in-Bay	Lake Erie				175
2000	7	21	Snyder	State Legislature/Congressional Day	Sandusky/Put-in-Bay	Legislative Awareness	150		x	
2000	7	21	Williams	State Legislature/Congressional Day	Sandusky/Put-in-Bay	Legislators				80
2000	7	25	Hageman	Scott Carpenter Family	Gibraltar Island	Stone Laboratory Tour	4			
2000	7	25	Hageman	Boy Scout Troop 134, Elyria	Gibraltar Island	Stone Laboratory Tour	20			
2000	7	25	Hageman	Fulton Co. Extension Office	Gibraltar Island	Stone Laboratory Tour			8	
2000	7	25	Snyder	Ohio ANS Task Force	Columbus	Publication Development	8		x	
2000	7	26	Snyder	District Director Reception	Bowling Green	Martin Retirement				75
2000	7	27	Hageman	Ted Legibel Family	Gibraltar Island	Stone Laboratory Tour			4	
2000	7	27	Hageman	Fish Ecology Class ZOO 653	Gibraltar Island	Larval Fish I.D. Techniques	14			
2000	7	27	Hageman	Visitors for Guest Lecture	Gibraltar Island	Frank Quinn, Lake Erie Water Levels			59	
2000	7	28	Hageman	Bascus Family	Gibraltar Island	Stone Laboratory Tour			3	
2000	7	28	Hageman	O.S.U. Extension, District Directors	Put-in-Bay	Stone Laboratory Tour	12			
2000	7	28	Hageman	Robert Shubert	Gibraltar Island	Stone Laboratory Tour			3	
2000	7	29	Hageman	Senator Jeffrey Armbruster	Gibraltar Island	Stone Lab/Cooke Castle Tour	9			
2000	7	29	Hageman	Tuscarawus Co. 4-H Tours	Gibraltar Island	Stone Laboratory Tour	58			
2000	7	30	Hageman	EEOB 125, Intro. to Aquatic Biology	Gibraltar Island	Stone Laboratory Orientation	18			
2000	7	30	Hageman	Sonny-S & Fans	Middle Bass Island	Softball Game vs Gibraltar			x	
2000	7	31	Hageman	Dan Neuman	Gibraltar Island	Cooperative Lake Erie Workshop	1			
2000	7	31	Snyder	Fremont News-Messenger Interview	Port Clinton	Lake Erie Fisheries				
2000	8	2	Hageman	Lucas Co. Youth Treatment Ctr.	Gibraltar Island	Aquatic Science Workshop			11	
2000	8	3	Hageman	Great Lakes Ecosystem Rsch. Consor	Gibraltar Island	Research Meeting			63	
2000	8	3	Hageman	Visitors for Guest Lecture	Gibraltar Island	Gary Isbell, Ohio DNR Fish Mgmt			90	
2000	8	3	Hageman	Linda Meadows, O.S.U. V.P. Rsch	Gibraltar Island	Stone Laboratory Update	1			
2000	8	3	Hageman	Dorothy Miles, WOSU	Gibraltar Island	Tape Radio Interview, NPR				
2000	8	6	Hageman	EEOB 125, Intro. to Aquatic Biology	Gibraltar Island	Stone Laboratory Tour	18			
2000	8	7	Hageman	Bob Grimm Family	Gibraltar Island	Stone Laboratory Tour	8			
2000	8	8	Hageman	Hicks Family	Gibraltar Island	Stone Laboratory Tour			6	
2000	8	8	Hageman	Mary Byers, O.S.U. OSHA Mgmt.	Gibraltar Island	Stone Laboratory Tour	2			
2000	8	8	Kelch	Governors Submerged Lands Adv. Com.	Vermilion	Shipwreck Center, wrecks, diving	18			x
2000	8	9	Lichtkoppler	OSU Students	Lake County	Coastal Geology	18			x
2000	8	10	Hageman	N.E. Ohio School Teachers	Gibraltar Island	Aquatic Science Workshop	12			
2000	8	10	Hageman	Visitors for Guest Lecture	Gibraltar Island	Steve Brandt, G.L. Envir Rsch Lab			45	

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2000	8	10	Lichtkoppler	Mentor Marsh Board	Mentor	Mentor Marsh	15			x
2000	8	11	Lichtkoppler	CMNH researchers	Ashtabula River	Stream Ecology	3			x
2000	8	12	Hageman	Bobby Moser Family	Gibraltar Island	Stone Lab/Cooke Castle Tour	7			
2000	8	14	Hageman	Stanton Family	Gibraltar Island	Stone Lab/Cooke Castle Tour	6			
2000	8	14	Snyder	Hancock Extension	Findlay	Promotion & Tenure	4			
2000	8	14	Williams	BREI conference call	Cleveland	Board mtg, BREI		9		
2000	8	15	Hageman	Ottawa/Lucas Co. Farm Service Agency	Gibraltar Island	Conference			16	
2000	8	15	Lichtkoppler	Sea Grant Staff PAT Planning	Cleveland	Program Assessment	10			x
2000	8	15	Snyder	Sea Grant Staff	Cleveland	Program Planning	7			
2000	8	15	Williams	Sea Grant Mtg	Rocky River	Sea Grant	5			
2000	8	16	Hageman	Ohio Sea Grant Extension	L.E.Nature & Science Ctr.	Program Assesment Team "Dry Run"				8
2000	8	18	Hageman	Retired N.A.S.A. Employees	Gibraltar Island	Stone Laboratory Tour/Lunch	11			
2000	8	18	Hageman	Staff Advisor Council, CFAES	Gibraltar Island	Conference/Stone Laboratory Tour	16			
2000	8	18	Hageman	Reynolds Family	Gibraltar Island	Stone Laboratory Tour			5	
2000	8	20	Hageman	Lakeside Heritage Society	Lakeside	Stone Laboratory Tour	75			
2000	8	21	Hageman	O.D.N.R.- Div. Of Wildlife	Sandusky Bay & Lake Erie	Young-of-year Fish Trawls				6
2000	8	21	Lichtkoppler	Mentor Lagoons Planning Committee	Mentor	Survey results	15			x
2000	8	22	Lichtkoppler	MARC/SAMP Committee	Mentor	Mentor Marsh	12			x
2000	8	22	Snyder	Sandusky County Fair	Fremont	Water Resources	44			
2000	8	22	Williams	Call Center job training for CMHA	Cleveland	Job training program for CMHA	4			
2000	8	22	Williams	Pet program finaincail support mtg	Cleveland	D. Skoda & John Eland	3			
2000	8	22	Williams	Pet program review	Cleveland	Prep for next Pet program	8			
2000	8	23	Lichtkoppler	Harpersfield Dam Committee	Orwell	Harpersfiels Dam Status				17
2000	8	23-25	Hageman	O.S.U. Residence Life	Gibraltar Island	Stone Lab Overview/Conference	44			
2000	8	24	Lichtkoppler	Lake Erie College Students	Lake Erie	Lake Erie Boat Tour	16			
2000	8	24	Snyder	NW District Office Staff	Findlay	Office Conference	12			
2000	8	24	Williams	Issue 1 State review of Future Brownfield	Cleveland	Review legislation for funding by OH	5			
2000	8	24-25	Hageman	O.S.U. A.T.I. Staff	Gibraltar Island	Conference			11	
2000	8	25	Hageman	Tim Killian, Ohio EPA	Stone Laboratory	Hazardous Waste Inspection	1			
2000	8	25	Hageman	Sue Ballinger, Scope Shop	Stone Laboratory	Video Microscopy			3	
2000	8	25-27	Hageman	Friends of Stone Lab Board	Gibraltar Island	Final Board Meeting			27	
2000	8	26	Hageman	Visitors for Stone Lab Open House	Gibraltar Island/Lighthouse	Stone Laboratory Tour	860			
2000	8	26	Snyder	Stone Lab Open House	Put-in-Bay	Lake Erie Fisheries	100			
2000	8	26-27	Hageman	Friends of Stone Lab Members	Gibraltar Island	Homecoming/Annual Meeting			48	
2000	8	27	Hageman	Friends of Stone Lab Board	Gibraltar Island	New Board 1st Meeting				10
2000	8	29	Hageman	Peter Langrum, GLERL	Lake Erie	Sediment Sampling				3
2000	8	29-30	Hageman	O.S.U. Plant Pathology Class	Gibraltar Island	Field Trip			12	
2000	8	30	Hageman	Preble Co. SWCD	Gibraltar Island	Stone Laboratory Tour	54			
2000	8	30	Lichtkoppler	ARP Project Committee	Ashtabula	ARP Project				15
2000	8	30	Lichtkoppler	ARP Annual Meeting	Ashtabula	ARP Project Update				50
2000	8	30	Williams	Business Excel team mtg	Findlay	Inservice	9			
2000	8	30-31	Hageman	Phillip-Osborne, Painesville, OH	Gibraltar Island	Aquatic Science Workshop			34	
2000	8	31	Lichtkoppler	Waterway Adventure	Ashtabula	Lake Erie Education	5			
2000	8 & 9	31-01	Hageman	Hathaway-Brown, Shaker Heights, OH	Gibraltar Island	Aquatic Science Workshop	56			
2000	9	1	Hageman	Tim Granata, OSU Civil Eng.	Gibraltar Island	Research				3
2000	9	1	Hageman	Woodland Steward Program	Urbana	Woodland Management & Training I				35
2000	9	1	Williams	City of Lorain	Cleveland	Creating economic partnerships	5			
2000	9	5	Snyder	Ohio ANS Task Force	Columbus	Proposal Development	9		x	
2000	9	5-6	Hageman	Int'l Joint Comm. -G.L. Rsch Mgrs.	Gibraltar Island	Conference				11
2000	9	5-6	Hageman	Hilliard Station I	Gibraltar Island	Aquatic Science Workshop			40	
2000	9	6	Hageman	O.D.N.R. State Parks	Catawba Island	Middle Bass Is. State Park Forum				25
2000	9	6	Kelch	Ohio Lake Erie Commission	Sandusky	Artificial reef update to commission	36			x
2000	9	6	Lichtkoppler	CZ01 Local Committee	Cleveland	Coastal Zone Conference local tours	15			
2000	9	6	Williams	Todd Lodgigues	Cleveland	Business development	2			

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2000	9	6-7	Hageman	Hilliard Station II	Gibraltar Island	Aquatic Science Workshop			39	
2000	9	7	Hageman	Lake Erie Protection Fund	Sandusky Bay & Lake Erie	Lake Erie Protection FunD Conference				x
2000	9	7	Kelch	Ohio Lake Erie Conference	Sandusky	Attend conference				x
2000	9	7	Lichtkoppler	Lake Erie Conference	Sandusky	Lake Erie			200	
2000	9	7	Snyder	Lake Erie Conference	Sandusky	Research Overview				150
2000	9	7	Williams	PET Team socializer	Cleveland	Team development	18			
2000	9	7-8	Hageman	Hilliard Station III	Gibraltar Island	Aquatic Science Workshop			62	
2000	9	8	Hageman	Woodland Steward Program	Urbana	Woodland Management & Training II				35
2000	9	8	Williams	Business Excel team mtg	Columbus	Jackie LaMuth	2			
2000	9	8-9	Hageman	Park St. M.S. - Grove City, OH	Gibraltar Island	Aquatic Science Workshop			62	
2000	9	9	Kelch	G.L. Hist. Soc. Archaeology Class	Vermilion	lecture: art reefs, shipwrecks	22			
2000	9	9-11	Hageman	Roland Hahn - OSU Microscope Repair	Stone Laboratory	Microscope Maintenance			3	
2000	9	11	Hageman	Elderhostel IV	Gibraltar Island	Aquatic Science Workshop			30	
2000	9	11	Lichtkoppler	Sea Grant Staff PAT Planning	Columbus	Program Planning	10			x
2000	9	11	Snyder	Sea Grant Staff PAT Planning	Columbus	Program Planning	8			
2000	9	11-12	Hageman	Bexley M.S.	Gibraltar Island	Aquatic Science Workshop			38	
2000	9	12	Hageman	Brecksville H.S.	Gibraltar Island	Aquatic Science Workshop			19	
2000	9	12	Lichtkoppler	BD WETLANDS Task Force	Mentor	wetland mitigation	7			
2000	9	12	Lichtkoppler	Mentor Lagoons Planning Committee	Mentor	Survey results cont.	15			x
2000	9	12	Snyder	Sandusky County 4th Grade Students	Fremont	Aquatic Ecology	250			
2000	9	13	Hageman	Genoa H.S. German Club	Gibraltar Island	Stone Laboratory Tour	21			
2000	9	13-14	Hageman	Highland H.S. - Medina, OH	Gibraltar Island	Aquatic Science Workshop			30	
2000	9	14	Kelch	Lake Erie Bass Anglers Club	Elyria	Smallmouth tagging research project	24			
2000	9	14	Lichtkoppler	Mentor Marsh Board	Mentor	Mentor Marsh	14			x
2000	9	14-15	Hageman	Woodside M.S. - Ft. Wayne, IN	Gibraltar Island	Aquatic Science Workshop			32	
2000	9	14-15	Hageman	Lake Erie Protection Fund	Gibraltar Island	Conference			29	
2000	9	14-15	Hageman	ENSCO	Stone Laboratory	Chemical Waste Disposal			4	
2000	9	15	Hageman	Jefferson Elem. - Port Clinton, OH	Gibraltar Island	Aquatic Science Workshop			54	
2000	9	15	Snyder	Ottawa County 5th Grade Students	Oak Harbor	Aquatic Ecology	550			
2000	9	15-17	Hageman	O.S.U. Molecular Genetics	Gibraltar Island	Conference			53	
2000	9	15-17	Hageman	Sandusky Radio Experimental League	Gibraltar Island	H.A.M. Radio Club Event			9	
2000	9	16	Hageman	Zionsville United Meth. Mens Ministry	Gibraltar Island	Stone Laboratory Tour	28			
2000	9	18	Hageman	Great Lakes Science Center	Cleveland	R.O.V. Demonstration			2240	
2000	9	18	Hageman	Elderhostel V	Gibraltar Island	Aquatic Science Workshop			30	
2000	9	18	Hageman	Lorain Co. Joint Vocational School	Gibraltar Island	Aquatic Science Workshop			13	
2000	9	18	Hageman	Put-in-Bay Clean-Up Volunteers	Put-in-Bay	9th Put-in-Bay Underwater Clean-Up			121	
2000	9	18	Hageman	Pheasants Forever Board	Oak Harbor	Monthly Board Meeting				10
2000	9	18	Kelch	Central Basin Charterboat Association	Lorain	Lake Erie update, fisheries, research	39			
2000	9	18	Lichtkoppler	Master Gardeners	Painesville	Focus Group	13	x		
2000	9	18	Snyder	Port Clinton News-Herald Interview	Port Clinton	Lake Erie Shipwrecks				
2000	9	19	Hageman	Amherst Steel H.S. - Lorain, OH	Gibraltar Island	Aquatic Science Workshop			57	
2000	9	19	Kelch	Discovery Dive Charters	Euclid	Art Reef underwater video research	8			
2000	9	19	Lichtkoppler	Grand River Partners Inc.	W. Farmington	Watershed Preservation				24
2000	9	19	Williams	Economic Development Network	Garfield Hts.	Review of Retail industry in Cuyahoga	52			
2000	9	19	Williams	Ohio Economic Devevelopment Cou.	Columbus	Council meeting	36			
2000	9	19-20	Hageman	Dempsey M.S., Delaware, OH	Gibraltar Island	Aquatic Science Workshop			38	
2000	9	20	Hageman	Portage Elementary, Port Clinton, OH	Gibraltar Island	Aquatic Science Workshop	56			
2000	9	20	Lichtkoppler	Citizens	Mentor	Mentor Lagoons Tour	8			x
2000	9	20	Williams	City of Fairview Pk.	Fairview	Electronic survey	3			
2000	9	21	Hageman	St. Marys of the Falls, Olmsted Falls, OH	Gibraltar Island	Aquatic Science Workshop			19	
2000	9	21	Kelch	West Cleveland Walleye Association	Cleveland	Lake Erie update, fisheries, research	63			
2000	9	21	Lichtkoppler	Master Gardeners	Painesville	Focus Group	12	x		
2000	9	21	Snyder	NW District Office Staff	Findlay	Office Conference	12			
2000	9	21	Williams	CMHA	Cleveland	PET Program recruitment		6		

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2000	9	21-22	Hageman	Edgewood M.S. - Trenton, OH	Gibraltar Island	Aquatic Science Workshop			22	
2000	9	21-22	Hageman	Orange H.S. - Pepper Pike, OH	Gibraltar Island	Aquatic Science Workshop			12	
2000	9	22	Hageman	McCormick 5th Grade - Huron, OH	Gibraltar Island	Stone Laboratory Tour	136			
2000	9	22	Williams	Dennis Eckart video tape for Sea Grant	Cleveland	Sea Grant PAT review	3			
2000	9	23	Hageman	Heidelberg College	Gibraltar Island	Ichthyology Class Workshop			18	
2000	9	23	Hageman	Girl Scout Troop #898, Bay Village, OH	Gibraltar Island	Aquatic Science Workshop			14	
2000	9	25	Hageman	Elderhostel VI	Gibraltar Island	Aquatic Science Workshop			30	
2000	9	25	Hageman	West Holmes H.S. - Millersburg, OH	Gibraltar Island	Aquatic Science Workshop			16	
2000	9	25-28	Kelch	OSG Program Assessment Team Visit	Columbus, Lake Erie	Ohio Sea Grant Evaluation	20			x
2000	9	25-28	Lichtkoppler	OSG Program Assessment Team Visit	Columbus, Lake Erie	Ohio Sea Grant Evaluation	20			x
2000	9	25-28	Snyder	OSG Program Assessment Team Visit	Columbus, Lake Erie	Ohio Sea Grant Evaluation	20			x
2000	9	26	Hageman	Bataan Elem. - Port Clinton, OH	Gibraltar Island	Aquatic Science Workshop			56	
2000	9	26-27	Hageman	Bellefontaine H.S.	Gibraltar Island	Aquatic Science Workshop	7			
2000	9	26-27	Hageman	Program Assessment Team	Gibraltar Island	Program Review-Nat'l Sea Grant	29			
2000	9	27	Hageman	OSG Program Assessment Team Visit	Huron	Ohio Sea Grant Evaluation				20
2000	9	27	Kelch	OSG Program Assessment Team Visit	Bay Village, LENSC	Artificial reef development, research	40			
2000	9	27	Williams	OSG Program Assessment Team Visit	Cleveland	Ohio Sea Grant Evaluation	20			
2000	9	27-29	Hageman	The Wellington School - Columbus, OH	Gibraltar Island	Aquatic Science Workshop			51	
2000	9	28	Kelch	WOSU Radio presentation	Columbus, OSU	Art reefs, Lake Erie issues				
2000	9	28	Williams	City of Lakewood	Lakewood	Electronic Survey	3			
2000	9	28-29	Williams	Executive Tour	Cleveland	Business Attraction	23			
2000	9	29	Hageman	Lakota Jr. High - Amsden, OH	Gibraltar Island	Aquatic Science Workshop			35	
2000	9	29	Hageman	Bob Heath/Vincent Burke	Peach Pt. Rsch Lab	Radiation Safety Inspection				4
2000	9	29	Lichtkoppler	BD WETLANDS Task Force	Mentor	wetland mitigation	6			
2000	9	30	Hageman	Hilliard Darby 9th Sci. Academy	Gibraltar Island	Aquatic Science Workshop			27	
2000	9	30	Hageman	Jeffery Bunting (Cooke Relative)	Gibraltar Island	Cooke Castle Tour			1	
2000	10	1-5	Snyder	Sea Grant Ext. Program Leaders	Seward, Alaska	Program Leaders' Meeting				60
2000	10	2	Hageman	Avon High School - Avon, OH	Gibraltar Island	Aquatic Science Workshop			18	
2000	10	2	Kelch	V. Kijauskas, Discovery Dive Inc.	Wildwood Marina, Euclid	Art. Reef research, dive protocol		5		
2000	10	2	Williams	A&P Promotion & Tenture Committee	Lorain	Pere Review			7	
2000	10	3	Hageman	North Middle School - Lima, OH	Gibraltar Island	Aquatic Science Workshop			30	
2000	10	3	Lichtkoppler	Envirothon / High School Students	Rock Creek	Lake Erie & Water Pollution	85			
2000	10	4	Hageman	Padua Franciscan H.S. - Parma, OH	Gibraltar Island	Aquatic Science Workshop			29	
2000	10	4	Kelch	V. Kijauskas, Discovery Dive Inc.	Wildwood Marina, Euclid	Art. Reef research, dive protocol		7		
2000	10	4	Williams	OSU Agents' mtg	Cleveland	Agent's mtg			8	
2000	10	4-6	Hageman	Columbus School for Girls, Cols., OH	Gibraltar Island	Aquatic Science Workshop	64			
2000	10	5	Kelch	Sub. Lands A/C, Kellys Isl. Preserve	Vermilion	Kellys Island U/W Preserve	24			x
2000	10	5	Williams	Electronic Survey City of Mentor	Mentor	Electronic Survey	3			
2000	10	6	Hageman	Laurel Elementary - Shaker Hts., OH	Gibraltar Island	Aquatic Science Workshop			51	
2000	10	6	Snyder	OSU Extension	Findlay	OSUE Directors's Message				25
2000	10	6	Williams	Governor's regional advisory mtg.	Geauga	Governors regional mtg				40
2000	10	7	Kelch	NWTF Youth Outdoors Education Day	Belden Youth Wildlife Area	angling, conservation, aquatic environ.	95		x	x
2000	10	9	Hageman	Put-in-Bay H.S. - Put-in-Bay, OH	Gibraltar Island	Aquatic Science Workshop			33	
2000	10	9	Lichtkoppler	Mentor Lagoons Planning Committee	Mentor	Marina Planning	15			x
2000	10	9-10	Hageman	Worthingway M.S. - Worthington, OH	Gibraltar Island	Aquatic Science Workshop	60			
2000	10	10	Hageman	Old Woman's Creek Advisory Committee	Gibraltar Island	Conference			10	
2000	10	10	Kelch	LCVB, policy committee	Lorain	new policies, LCVB		8	x	x
2000	10	10	Williams	Cuyahoga RAP mtg.	Cleveland	RAP		42		
2000	10	10-11	Hageman	Hudson M.S. I - Hudson, OH	Gibraltar Island	Aquatic Science Workshop			38	
2000	10	11	Kelch	ODNR Geo Survey Unit Office	Sandusky	Side-scan sonar research review				6
2000	10	11	Snyder	Portage River Basin Council	Pemberville	Recreation & Wildlife Committee	6	x		
2000	10	11	Williams	BREI conference call	Cleveland	Conference call	12			
2000	10	11-12	Hageman	Hudson M.S. II - Hudson, OH	Gibraltar Island	Aquatic Science Workshop			39	
2000	10	12	Williams	City of Strongsville	Strongsville	Electronic survey	2			

YEAR	MONTH	DAY	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTER/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.
2000	10	12-13	Hageman	Robinson Jr. High - Toledo, OH	Gibraltar Island	Aquatic Science Workshop			27	
2000	10	13	Snyder	Solomon Lutheran - Woodville, OH	Gibraltar Island	Aquatic Science Workshop			23	
2000	10	13	Hageman	Masa Gota(Japan), Hongzia Duan(China)	Gibraltar Island	Tour (Guest of Dr. Fortner & Dr. Mayer)	4			
2000	10	13	Snyder	Ohio ANS Task Force	Columbus	Advisory Team Meeting	10			
2000	10	13-15	Hageman	O.S.U. Plankton Class	Gibraltar Island	Field Trip			15	
2000	10	14	Hageman	Owens Community College-Toledo, OH	Gibraltar Island	Aquatic Science Workshop			7	
2000	10	14	Kelch	Smallmouth Bass Tagging Research	Lorain	catch, tag, release; research project			x	
2000	10	16	Hageman	All St's Catholic School-Rossford,OH	Gibraltar Island	Aquatic Science Workshop			22	
2000	10	16	Hageman	Pheasants Forever Board	Oak Harbor, OH	Monthly Meeting	7			
2000	10	16	Lichtkoppler	Master Gardeners	Painesville	Strategic Planning	12		x	
2000	10	17	Hageman	Assoc. of Science & Technology	Gibraltar Island	Island Tour	9			
2000	10	17	Hageman	Tiffin City Jr. High - Tiffin, OH	Gibraltar Island	Aquatic Science Workshop			16	
2000	10	17	Lichtkoppler	Master Gardeners	Painesville	Strategic Planning	12		x	
2000	10	18	Kelch	V. Kjauskas, Discovery Dive Inc.	Wildwood Marina, Euclid	Art. Reef research, dive protocol		4		
2000	10	18	Snyder	Portage River Basin Council	Bowling Green	Full Council Meeting	27		x	
2000	10	18-19	Hageman	Auburn Career Centers - Concord, OH	Gibraltar Island	Aquatic Science Workshop			16	
2000	10	19	Kelch	Smallmouth Bass Tagging Research	A. Emrisko, Cleveland	catch, tag, release; research project			x	
2000	10	19	Lichtkoppler	NW District Extension Faculty & Staff	Hancock Co.	Developing Research Programs	15			
2000	10	19	Snyder	NW District Extension Faculty & Staff	Hancock Co.	Developing Research Programs	15		x	
2000	10	19-20	Hageman	Rocky River M.S. - Rocky River, OH	Gibraltar Island	Aquatic Science Workshop			37	
2000	10	20	Hageman	Steve Fondreist	Peach Point Research Lab	Aquatic Monitoring Program Training				4
2000	10	20	Snyder	NWD Extension Staff	Findlay	Staff Conference				10
2000	10	20-22	Hageman	Sea Scout Trainees - Boy Scouts	Gibraltar Island	Conference	34			
2000	10	21	Hageman	Ashland University	Gibraltar Island	Stone Laboratory Tour	14			
2000	10	21	Williams	BREI midyear retreat	Chicago	Board mtg, BREI-mission & vision wsh	12			
2000	10	22	Hageman	Dan Wilson	Pepper Pike, OH	Pick up Donated Boat			3	
2000	10	23	Hageman	Tom Higgins- Buffalo State, OH	Gibraltar Island	Facilities Tour	1			
2000	10	23	Hageman	Participants	Put-in-Bay, OH	9th Put-in-Bay Underwater Cleanup			130	
2000	10	23	Williams	Clarkwood Industries	Cleveland	Deal team	5			
2000	10	23	Williams	PET Program	Cleveland	Money 2000	6			
2000	10	23-24	Hageman	Clintonville Academy	Gibraltar Island	Aquatic Science Workshop			50	
2000	10	25	Kelch	LCVB, Board of Directors Mtg.	Lorain	Chair mtg., tourism topics	18	x		
2000	10	25	Lichtkoppler	ARP Project Committee	Ashtabula	ARP Project				15
2000	10	25	Lichtkoppler	ARP Coordinating Committee	Ashtabula	ARP Project Update				14
2000	10	25	Williams	City of Mentor	Mentor	Prep for Business Survey	3			
2000	10	26	Hageman	Ford M.S. - Brook Park, OH	Gibraltar Island	Aquatic Science Workshop			30	
2000	10	26	Lichtkoppler	Cleveland City Club	Cleveland	ARP Project Questions	35			
2000	10	26	Snyder	Leadership Ottawa County	Oak Harbor	Lake Erie Resources	18			
2000	10	27	Hageman	Captain Allen Duff	Put-in-Bay Harbor	Measured Water Depth in Bay				2
2000	10	30	Williams	PET Program	Cleveland	Money 2000	5			
2000	10	31	Snyder	Lake Erie Anglers	Ottawa-Erie Counties	Bait Handling Survey	13	x	x	
2000	11	1	Lichtkoppler	Land & Water Committee	Painesville	Land use	6			x
2000	11	1-2	Snyder	OSUE Dept. Promotion & Tenure Com.	Columbus	Vitae Review				12
2000	11	2	Hageman	Stone Lab Put-in-Bay Staff	S. Bass Island Lighthouse	Staff Lunch				14
2000	11	2	Kelch	Smallmouth Bass Tagging Research	Lorain	catch, tag, release; research project			x	
2000	11	2	Williams	Lorain County Tech Survey	Lorain	Prep for Tech survey	5			
2000	11	3	Kelch	Smallmouth Bass Tagging Research	A. Emrisko, Cleveland	catch, tag, release; research project			x	
2000	11	3	Snyder	TMACOG, OCVB	Port Clinton	Tourism Planning	4		x	
2000	11	3	Williams	mortgage counseling	Cleveland	mortgage loans	2			
2000	11	6	Snyder	Pesticide Applicators	Columbus	Videotape Certification Update				
2000	11	6	Williams	PET program	Cleveland	Money 2000	5			
2000	11	7	Williams	Succession Planning Seminar	Cleveland	Succession Planning	33			
2000	11	8	Lichtkoppler	Researchers	Fairport Harbor	Mayfly Watch	12			
2000	11	8	Lichtkoppler	Master Gardeners	Painesville	Strategic Planning	23			

YEAR	MONTH	DAY	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTER/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.
2000	11	8	Snyder	Port Clinton Power Squadron	Port Clinton	Lake Erie Status Report	35			
2000	11	8	Williams	National Tbz	Cleveland	Business Attraction	17			
2000	11	9	Kelch	LENSC Seminar, invited presentation	Cleveland	Zebra mussels, impact in L. Erie	27			
2000	11	9	Lichtkoppler	Mentor March Board	Mentor	Marsh Management	12			x
2000	11	9	Williams	OEDC survey/ tbz planning	Cleveland	Business Retention	3			
2000	11	9	Williams	Geauga survey review with Anita Strocke	Geauga	Business Retention	3			
2000	11	13	Lichtkoppler	LC Solid Waste Officials	Painesville	Curbside Recycling Survey	3			
2000	11	13	Williams	PET program	Cleveland	Money 2000	5			
2000	11	14	Kelch	Sub. Lands A/C, Kellys Isl. Preserve	Kellys Island	Kellys Island U/W Preserve	21			x
2000	11	14	Kelch	OSU Extension Open House	Elyria	Sea Grant Extension	55			x
2000	11	14	Kelch	Submerged Lands A/C Mtg.	Elyria	Shipwreck buoys, intentional sinking	14			x
2000	11	14	Snyder	Tourism Industry	Huron	Nature-Based Tourism	25			
2000	11	14	Williams	Social committee Cuyahoga RAP	Peninsula	Cuyahoga RAP	8			
2000	11	15	Hageman	Great Lakes Ecosystem Reseach Consc	Cleveland State Univ.	Research Meeting				48
2000	11	15	Lichtkoppler	ARP Project Committee	Ashtabula	ARP Project				15
2000	11	15	Lichtkoppler	ARP Coordinating Committee	Ashtabula	ARP Project CMP/EIS Update				14
2000	11	15	Williams	Highland Hts. Cluster Group mtg.	Highland Hts.	Cluster Group	55			
2000	11	16	Kelch	OSU ExtensionIn-Service	Medina	extension updates, planning				x
2000	11	16	Lichtkoppler	Lakeland Community College Faculty	Mentor	Lake Erie Update	6			
2000	11	16	Snyder	NWD Extension Staff	Findlay	Staff Conference				11
2000	11	16	Williams	Cuyahoga Rap	Cleveland	Cuyahoga Rap	49			
2000	11	17	Hageman	Stone Lab 3 Departments	Conference Call	End of Season, 3 Dept. Meeting				11
2000	11	17	Williams	Business Resource Panel mtg.	Cleveland	Business Retention	5			
2000	11	20	Williams	PET	Cleveland	Money 2000	5			
2000	11	21	Kelch	LENSC Youth Ed. Seminar, invited	Cleveland	Changes in Lake Erie	33			
2000	11	21	Williams	Economic Development Network	Cleveland	Mainstreet Retail USA	46			
2000	11	22	Kelch	LCVB, Board of Directors Mtg.	Lorain	Chair mtg., tourism topics	16			x
2000	11	27	Williams	PET	Cleveland	Money 2000	5			
2000	11	28,30	Lichtkoppler	CFAES P&T Committee	Columbus	College P&T Evaluations	11			x
2000	12	1	Snyder	GLSGN ANS Committee	Port Clinton	ANS Conference Call	5			
2000	12	1	Williams	Housing Court-firecode violation busine	Cleveland	Support of city fire code	12			
2000	12	1	Williams	Clarkwood Industries	Cleveland	Deal team	4			
2000	12	2	Snyder	Michigan Charter Captains Conference	Monroe, MI	Lake Erie Fisheries Update	35			
2000	12	4	Williams	PET	Cleveland	Money 2000	5			
2000	12	4, 6	Lichtkoppler	CFAES P&T Committee	Columbus	College P&T Evaluations	11			x
2000	12	5	Lichtkoppler	OSU Extension Annual Recognition	Columbus	Annual OSUE Update & Awards				350
2000	12	6	Hageman	Stone Lab 3 Departments	Conference Call	Finish Meeting of Nov. 17				10
2000	12	6	Williams	PET	Cleveland	Cluster Group	8			
2000	12	6	Williams	Sea Grant Board mtg.	Cleveland	advisory mtg.	7			
2000	12	7	Hageman	Northwest Ohio Computer Assoc.	Put-in-Bay High School	Distance Learning Test Connection	4			
2000	12	7	Lichtkoppler	Drs Kraybill & Reuttter	Columbus	Lake Erie Eco Model	3		x	
2000	12	8	Hageman	U.N.I.T.S. - Simeon Ananou	Bayview Office of Stone Lab	Trouble-Shoot Data Cable				3
2000	12	8	Kelch	OSU Extension , training seminar	Elyria	Diversity Training				x
2000	12	8	Williams	TBZ planning mtg.	Cleveland	TBZ planning mtg	3			
2000	12	11	Hageman	Ohio Sea Grant Extension	Conference Call	Program Assesmetn Team Debriefing				7
2000	12	11	Kelch	OSU Extension, promotion seminar	Wooster	Promotion & tenure process				x
2000	12	11	Lichtkoppler	Sea Grant Staff	Painesville	Conf Call PAT Debriefing				7
2000	12	14	Kelch	Polish Fishermans Club X-mas Party	Lorain	Event speaker, Lake Erie Changes	120			x
2000	12	14	Snyder	E. Lentz, S. Prochaska	Tiffin	Vitae Review	2			
2000	12	15	Hageman	Northwest District Extension	Fremont, OH	Office Conference				11
2000	12	18	Hageman	Pheasants Forever Board	Oak Harbor, OH	Monthly Meeting	7			
2000	12	18	Kelch	Lorain County Ducks Unlimited Mtg.	Lorain	Lake Erie Wing Watch 2001 display	14			x
2000	12	19	Kelch	V. Kijauskas, Discovery Dive Inc.	Wildwood Marina, Euclid	Art. Reef research, dive protocol		3		
2000	12	19	Lichtkoppler	CZ 01 Local Committee	Painesville	Conf Call CZ 01 tour planning	6			



YEAR	MONTH	DAY	LAST NAME	AUDIENCE	LOCATION	TOPIC	PRESENTER/No.	CHAIR/No.	ORGANIZE/No.	PARTICIP./No.
2000	12	21	Snyder	Extension & Business Leaders	Toledo	New Agent Interviews	17			
2000	12	28	Kelch	Westlake Sportsmans Club	Cleveland	Lake Erie water levels, exotic species	58			





























**MASS MEDIA**


# Ohio Sea Grant College Program Progress Report 2000 - 2001

## **APPENDIX E**

### **EXTENSION ACTIVITIES 2001**





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

2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
2001	1	4	Hageman	Distance Learning Presentation	Put-in-Bay School	Zebra Mussel Research Summary	25			
2001	1	6	Snyder	Toussaint River Association	Oak Harbor	River Dredging	16			
2001	1	8	Snyder	Sandusky Power Squadron	Sandusky	Lake Erie Issues	75			
2001	1	9	Hageman	Sea Grant Staff	Columbus	Program Planning Meeting	15			
2001	1	9	kelch	sea grant meeting, agents, director	columbus	sea grant update/planning/boat show				x
2001	1	9	Lichtkoppler	Sea Grant Staff	Columbus	Program Planning Meeting	15		x	
2001	1	9	Snyder	Sea Grant Staff	Columbus	Program Planning Meeting	15		x	
2001	1	9	Williams	Cuyahoga RAP	Penninsula	Cuyahoga river				32
2001	1	9	Williams	BREI Board members	conference call	BREI business	10			
2001	1	10	kelch	sea grant advisory committee mtg.	elyria	updates, planning			18	
2001	1	10	Lichtkoppler	CFAES P&T Committee	Columbus	College P&T Evaluations				11
2001	1	10	Snyder	PRBC Recreation & Wildlife Committee	Pemberville	Tourism Development	6	x	x	
2001	1	11	kelch	westlake sportsman club	westlake	changes in lake erie, lake levels	48			
2001	1	12	kelch	governors advisory council, buoy comm	vermilion	meet with lake carriers association			10	
2001	1	12	Snyder	Great Lakes Sea Grant Network NIS	Chicago, IL	NIS Proposal Development	9		x	
2001	1	17	Lichtkoppler	ARP Project Committee	Ashtabula	ARP Project				15
2001	1	17	Lichtkoppler	ARP Coordinating Committee	Ashtabula	ARP Project Update				14
2001	1	17	Lichtkoppler	Mentor Lagoons Planning Committee	Mentor	Marina Planning	15			
2001	1	17	Snyder	Portage River Basin Council	Bowling Green	Basin Development & Protection	26		x	
2001	1	18	Hageman	Ohio Lake Erie Office	Columbus	L.E. Restoration & Protection Plan				15
2001	1	18	kelch	Cleveland Boat Show	cleveland	set up sea grant display for show			2	
2001	1	18	Snyder	Lake Erie Buffer Team	Columbus	Buffer Video Development	15			
2001	1	18	Williams	American Lung	Cleveland	fund raiser				12
2001	1	18-28	Lichtkoppler	Cleveland Boat Show	Cleveland	Sea Grant & Lake Erie Issues				
2001	1	19	Snyder	NW District Extension Staff	Findlay	Staff Update	12			
2001	1	19	Snyder	Ed Lentz, Steve Prochaska	Tiffin	Vita Counseling	2			
2001	1	19	Williams	Housing court	Cleveland	Fire suppression equip. installation	6			
2001	1	19-28	kelch	Cleveland Boat Show	cleveland	Sea Grant & Lake Erie Issues				
2001	1	20	kelch	Cleveland Boat Show	cleveland	lake erie educational seminar	35			
2001	1	20	Snyder	Cleveland Boat Show	Cleveland	Sea Grant & Lake Erie Issues				
2001	1	21	kelch	Cleveland Boat Show	cleveland	lake erie educational seminar	47			
2001	1	22	Williams	Living in Cleveland Board	Cleveland	Looking for office space/institutional supp	5			
2001	1	22	Williams	Economic Development Network	Garfield Hts.	NEO Software, IT industry in Cleveland	46			
2001	1	22-23	Hageman	Great Lakes Sci Vessel Coord. WS	Windsor, ONT	Cooperative Research				75
2001	1	23	kelch	Cleveland Boat Show	cleveland	lake erie educational seminar	28			
2001	1	24	kelch	Cleveland Boat Show	cleveland	lake erie educational seminar	77			
2001	1	24	Snyder	Cleveland Boat Show	Cleveland	Sea Grant & Lake Erie Issues				
2001	1	25	kelch	Cleveland Boat Show	cleveland	lake erie educational seminar	53			
2001	1	25	Snyder	Danbury High School Students	Marblehead	Aquatic Science Careers	63			
2001	1	25	Snyder	Ottawa River Coalition	Lima	Lake Erie Issues	96			
2001	1	25	Williams	Cuyahoga Rap	Cleveland	Cuyahoga river	32			
2001	1	26	Snyder	Cleveland Boat Show	Cleveland	Sea Grant & Lake Erie Issues				
2001	1	27	kelch	great lakes sport fishing council conf.	dundee, michigan	artificial reefs in lake erie	275			
2001	1	27	Snyder	Cleveland Boat Show	Cleveland	Sea Grant & Lake Erie Issues				
2001	1	29	Snyder	Robert McCall	Port Clinton	Water Quality Issues	1			
2001	1	29	Williams	PET	Cleveland	Pre employment -Money 2000	15			
2001	1	31	kelch	sea camp conference call	elyria	plan 2001 sea camp				x
2001	2	1	kelch	cleveland fishing association	cleveland	presentation, lake erie update	63			
2001	2	2	Williams	Governor regional advisory mtg	Cleveland	State resources				25
2001	2	3	Lichtkoppler	Local Officials	Perry Twp.	Strategic Planning / Land Use	20			
2001	2	5	Lichtkoppler	Co. Commissioners Day Committee	Jefferson	Co. Comm Day Planning	10			
2001	2	5	Lucente	Jerry Thomas	Bowling Green	Job Orientation	2		x	
2001	2	6	kelch	lorain county visitors bureau comm mtg	lorain	bureau planning for 2001				x
2001	2	6	Lichtkoppler	ARP Resources Committee	Ashtabula	ARP Funding				12

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

2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
2001	2	7	Hageman	Selection Committee Members	Columbus	2001 Distinguished Staff Awards				10
2001	2	8	Lichtkoppler	Lake Erie Tourism	Bay Village	Lake Erie Heritage Tourism				30
2001	2	8	Lichtkoppler	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-I-B Underwater cleanup		6		
2001	2	9	kelch	cuyahoga river national park meeting	cleveland	meet with director, coop planning				x
2001	2	9	Lichtkoppler	Sea Grant Staff	Penninsula	Heritage River				7
2001	2	9	Lucente	Sea Grant Staff	Peninsula	River Navigator Meeting				6
2001	2	9	Snyder	Cuyahoga River Navigator	Cleveland	Navigator Program	8			
2001	2	9	Williams	River navigator	Penninsula	Outreach with Sea Grant	8			
2001	2	12	Lucente	Don Monroe	Toledo	Introduction Mtg.	3	x		x
2001	2	12	Williams	Danara Technical Group	Cleveland	consultation		5		
2001	2	12	Williams	PET	Cleveland	Pre employment -Money 2000	15			
2001	2	13	kelch	governors advisory council, buoy comm	lorain	shipwreck buoy placement issues				x
2001	2	13	Williams	BREI Board members	Cleveland	Conference call	8			
2001	2	14	Lucente	Jeff Busch & Jamie Kochensparger	Toledo	Introduction Mtg.	3	x		x
2001	2	15	Lichtkoppler	Land & Water Committee	Painesville	Land Use Issues	6			
2001	2	15	Lichtkoppler	Lake Co. Extension Committee	Painesville	Extension Program Planning	16			
2001	2	16	Hageman	Ohio Wildlife Mgmt. Association	Columbus	OH Chap. American Fisheries Soc.Mtg				
2001	2	16	Lucente	NW District Office Mtg.	Findlay	Office Mtg.	15			
2001	2	16	Snyder	NW District Extension Staff	Findlay	Staff Update	22			
2001	2	17-18	Lichtkoppler	Eastlake Fishing Symposium	Eastlake	Lake Erie Issues				
2001	2	19	Lucente	Lucas County Extension	Toledo	In-Service/Lucas County Library				19
2001	2	19	Snyder	Great Lakes Sea Grant Network NIS	Port Clinton	HACCP Conference Call	6		x	
2001	2	19	Williams	PET	Cleveland	Pre employment -Money 2000	8			
2001	2	20	Snyder	Ohio ANS Task Force	Columbus	Program Planning & Updates	8			x
2001	2	20	Williams	OEDC	Columbus	National Mfg weel Prep.		10		
2001	2	20	Williams	Housing Court	Cleveland	Fire suppression equip. installation Hea	6			
2001	2	20-21	Lucente	OSU Extension	Columbus	Orientation				25
2001	2	21	kelch	lorain county visitors bureau board mtg	lorain	board of directors, bureau planning		18		
2001	2	21	Lichtkoppler	Mentor Lagoons Planning Committee	Mentor	Marina Planning	15			x
2001	2	21	Williams	Industrial Roundtable	Cleveland	CIRI business mtg	5			
2001	2	22	kelch	bay area divers association	bellevue	underwater preserve, shipwreck buoys	36			
2001	2	22	Lichtkoppler	Grand River Association	Fairport	Recreational Dredging	12			
2001	2	22	Lucente	Dr. Steve Goldman	Oregon	Introduction Mtg.	2	x		x
2001	2	22	Snyder	Sandusky Register	Sandusky	Lake Levels Interview				
2001	2	23	Lucente	Lucas County	Toledo	E.D. Conference				220
2001	2	23	Williams	Resign Design	Cleveland	Consultation	2			
2001	2	24	Lichtkoppler	Mentor Lagoons Planning Committee	Mentor	Strategic Plan final work	12			
2001	2	26	Snyder	State Legislators	Bowling Green	Lake Erie Legislative Issues	12			
2001	2	26	Snyder	Cleveland Plain Dealer	Cleveland	Lake Levels Interview				
2001	2	26	Williams	PET	Cleveland	Pre employment -Money 2000	6			
2001	2	27	kelch	cleve. woods & waters club banquet	cleveland	sea grant display,				
2001	2	28	Hageman	Pheasants-Forever Board Members	Oak Harbor	Monthly Meeting	10			
2001	2	28	kelch	vermillion rotary club	vermillion	changes in lake erie, lake levels	31			
2001	2	28	Lichtkoppler	ARP Project Committee	Ashtabula	ARP Project	11			
2001	2	28	Lichtkoppler	ARP Coordinating Committee	Ashtabula	ARP Project Update	15			
2001	2	28	Lichtkoppler	ARP Restoration Committee	Ashtabula	NRD Project Concepts	12			
2001	2	28	Snyder	Outdoor Recreation Outreach Campaign	Columbus	Recreation Marketing	27			
2001	2	28	Williams	P&T Retreat	Columbus	Promotion			36	
2001	2	28	Williams	All Extension Programs	Wooster	All Extension				
2001	3	1	Hageman	College of Ag., Food & Enviro Sci	Columbus	Lake Erie				****
2001	3	1	Hageman	Winter Lecture Attendees	Columbus	Stone Lab Winter Lecture			****	

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

2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
2001	3	1	kelch	extension n/e district, update mtg	wooster	update, meet with 4-h for sea camp				x
2001	3	1	Lucente	OSU Extension	Findlay	OSU Ext. College Conference				125
2001	3	1	Lucente	Gen. Public	Oregon	Publci Hearing/Maumee Dredging				75
2001	3	2	Snyder	WGAR Radio	Cleveland	Lake Levels Interview				
2001	3	3	kelch	fin-feather-fur outfitters facility/store	ashland	lake erie angling and update seminar	89			
2001	3	4	Snyder	Friends of Pearson Metropark	Toledo	Lake Erie Fish Community	38			
2001	3	5	kelch	wcpn public radio, cleveland	cleveland	lake contaminants, dredging				
2001	3	5	Lucente	Jeff Reutter	Columbus	Sea Grant Orientation	2		x	
2001	3	5	Williams	National Mfg Week	Chicago	Trade Show				
2001	3	6	Lichtkoppler	Mentor Lagoons Planning Committee	Mentor	Strategic Plan Presentation	44			
2001	3	6	Lucente	Wes Farbach	Toledo	Introduction Mtg.	2		x	
2001	3	6	Snyder	Ottawa County Visitors Bureau	Port Clinton	Tourism Development Proposal	4			
2001	3	7	kelch	us coast guard, sub lands buoy comm	cleveland	shipwreck buoying issues				x
2001	3	7	Lucente	Kathy Fugate	Toledo	Introduction Mtg.	2		x	
2001	3	7	Lucente	Linda Koss & Jill Greg Clever	Toledo	Introduction Mtg.	3		x	
2001	3	7	Williams	Illinois Urban Programming	Chicago	Urban Specialist	1			
2001	3	8	Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	x			14
2001	3	8	Lucente	ODA Conference	Lima	Ohio E.D. Course	38			
2001	3	9	Snyder	Lake Erie Tourism Leaders	Sandusky	Heritage Tourism planning	12			
2001	3	9	Snyder	State Legislators	Port Clinton	Lake Erie Legislative Issues	15			
2001	3	10	Hageman	Ohio Charter Captains Conference	Sandusky	Charter Industry Business Mgt.				
2001	3	10	Hageman	Erie-Ottawa-Sandusky Members	Sandusky	Pheasants-Forever Banquet			415	
2001	3	10	kelch	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	x	
2001	3	12	Hageman	3-Departments of Stone Laboratory	Columbus	Spring Planning Meeting	18			
2001	3	12	Lucente	Mary Bielen	Bowling Green	Sea Grant Orientation	2	x	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	kelch	sea grant mtg, sea grant display	columbus	sport show display,lensc display mtg				x
2001	3	13	Lucente	Sandy Isenberg & Bill Copeland	Toledo	Introduction Mtg.	3		x	
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	kelch	sea camp conference call	elyria	sea camp 2001 planning				x
2001	3	14	Lucente	John Loftus & Jim Mettler	Toledo	Introdution Mtg.	3		x	
2001	3	15	kelch	cleveland sport show	cleveland	set up sea grant display for show			3	
2001	3	15	kelch	submerged lands advisory council mtg	lorain	submerged preserve issues, buoys				x
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				
2001	3	17-23	Lichtkoppler	Cleveland Sport Show	Cleveland	Sea Grant & Lake Erie Issues				
2001	3	17-25	kelch	cleveland sport show	cleveland	Sea Grant & Lake Erie Issues				
2001	3	18	Snyder	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues				
2001	3	19	Hageman	Pheasants-Forever Board Members	Oak Harbor	Monthly Meeting	12			
2001	3	19	Lucente	Waymon Usher	Toledo	Introduction Mtg.	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 Committeee	Mentor	SAMP	12			
2001	3	20	Lucente	Toledo-Lucas County Port Authority	Toledo	Wetland Mitigation Banking Mtg.	22			

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

2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
2001	3	20	Lucente	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues				
2001	3	20	Snyder	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues				
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				
2001	3	21	Snyder	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues				
2001	3	21	Williams	City of Solon	Twinsburg	Electroinic 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	Faciliated Teleconfonference course 6h	8			
2001	3	23	Williams	Candus	Cleveland	Candus deal team	15			
2001	3	24-27	Lichtkoppler	Program Leaders	Hilton Head, SC	Nat. Sea Grant Issues/SG Week	100			
2001	3	24-25	Hageman	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues				
2001	3	24	Snyder	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues				
2001	3	25	Snyder	Cleveland Sports Show	Cleveland	Sea Grant & Lake Erie Issues				
2001	3	26	Lucente	Hans Rosebrock/First Energy	Toledo	Introduction Mtg.	2		x	
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				200
2001	3	27	Williams	Cuyahoga Rap	Pensulia	Cuyahoga river	8			
2001	3	27-28	Hageman	Conference Attendees	Windsor, ONT	Lake Erie in the Millennium Conf.				120
2001	3	28	Hageman	Attendees	Toledo	26th Educators Symposium			4	
2001	3	28	kelch	Iorain county visitors bureau board mtg	Iorain	board of directors, bureau planning		15		
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	ODA Conference	Columbus	Ohio E.D. Course	38			
2001	3	29	Williams	Succession Planning	Cleveland	Private owned companies succession	35			
2001	3	30	Lucente	ODA Conference	Columbus	Ohio E.D. Course	38			
2001	3	31	kelch	fin-feather-fur outfitters facility/store	ashland	lake erie angling and update seminar	58			
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			
2001	4	3	Hageman	Distinguished Staff Award Committee	Columbus	Distinguished Staff Selection				10
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	Reutter & 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 & science center	bay village	lake erie angling and update seminar	89			
2001	4	4	Lucente	Dave Kelch	Toledo	Underwater Mapping of Prince Wreck	14		x	
2001	4	4	Snyder	LEECA	Port Clinton	Exotic Species Interview				
2001	4	5	kelch	central basin charterboat association	Iorain	lake erie update, fishery info	27			
2001	4	5	Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14			
2001	4	5	Lucente	Dave Eddy, Candace Baldwin	Toledo	North River CDC Mtg.	3	x	x	
2001	4	5	Snyder	OSU Alumni	Fremont	Annual Meeting				45
2001	4	5	Williams	Teleblitz national	Cleveland	Program	18			
2001	4	6	Lucente	Lake Erie Commission	Toledo	Reviewed Pre-proposals for Impl. Grants				14
2001	4	6	Snyder	Terra College - Elder College	Port Clinton	Lake Erie Issues	12			
2001	4	9	kelch	lcvb policy committee meeting	Iorain	visitor bureau policy changes		8		
2001	4	9	Lucente	Joe Perlaky, Toledo RGP	Toledo	Intro. Mtg.	2		x	
2001	4	9	Lucente	Candace Baldwin	Toledo	Advice on consultant for strat. Plan	2		x	
2001	4	10	Hageman	Sea Grant Staff	Huron	Staff Meeting	7			
2001	4	10	kelch	sea grant agents, researcher mtg	huron	sea grant updates, planning				x
2001	4	10	Lichtkoppler	Local Officials	Perry Twp.	Strategic Planning / Land Use	18			

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2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
2001	4	10	Lucente	Sea Grant Staff	Huron	Staff Meeting	7			
2001	4	10	Snyder	Sea Grant Staff	Huron	Staff Meeting	7			
2001	4	11	Lucente	OSU Extension CED Agents	Columbus	CED Agents Mtg.	15			
2001	4	11	Snyder	Fulton Co. Pond Owners	Wauseon	Pond Management	34			
2001	4	12	Hageman	Old Woman Cr, ODNR-CZM	Sandusky	Coastal Zone Collaboration				14
2001	4	12	Lichtkoppler	ODNR CMP& Sea Grant Staff	Sandusky	Coastal Management	15			
2001	4	12	Lucente	ODNR CMP& Sea Grant Staff	Sandusky	Coastal Management	15			
2001	4	12	Snyder	ODNR CMP& Sea Grant Staff	Sandusky	Coastal Management	15			
2001	4	13	Snyder	Avon Lake Press	Avon Lake	Fish Consumption Advisory Interview				
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 Gannon/Nancy Milton, USGS	Put-in-Bay	Facilities Tour	2			
2001	4	17	Lucente	Anne Moore, Toledo Chamber Commerc	Toledo	Partnership Mtg.	3	x	x	
2001	4	18	Hageman	Mellisa 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. Bihn, 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	18-19	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	Lichtkoppler	ARP Outreach	Ashtabula	ARP Project	6			
2001	4	24	Lucente	Kathleen Kovacs, N.I.P. CDC	Toledo	Intro. Mtg.	2		x	
2001	4	24	Snyder	Genoa Middle School Students	Genoa	Lake Erie Issues	175			
2001	4	25	Hageman	Clay H.S.	Gibraltar Island	Aquatic Science Workshop				10
2001	4	25	kelch	Iorain county visitors bureau board mtg	Iorain	board of directors, bureau planning		19		
2001	4	25	kelch	Icwb and local charter captains mtg	Iorain	Icwb and lake erie angling concerns				x
2001	4	25	Lichtkoppler	ARP Project Committee	Ashtabula	ARP Project	16			
2001	4	25	Lichtkoppler	ARP Coordinating Committee	Ashtabula	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	kelch	weol radio, elyria	elyria	fish contaminants, angling				
2001	4	26	Williams	Succession Planning	Cleveland	succession planing seminar	39			
2001	4	26	Williams	CD agents mtg	Holmes county	OSU	12			
2001	4	26	Williams	Executive tour	Cleveland	Business attraction	16			
2001	4	26-27	Hageman	Ann Stoeckmann	Peach Point Rsch Lab	Research Project Assistance				2
2001	4	27	Hageman	Sells M.S.	Gibraltar Island	Aquatic Science Workshop				25
2001	4	27	Lucente	Duck/Otter Creek Partnership	Toledo	Tour of Duck/Otter Creeks	18			

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2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
2001	4	27	Lucente	J. Loftus, TLPA, S. Bihn, City of Oregon	Toledo	Land Use Study of Fac. #3 in Oregon	4		x	
2001	4	27-28	Hageman	Minford M.S.	Gibraltar Island	Aquatic Science Workshop			21	
2001	4	30	Lichtkoppler	Cong DeWine's Aid	Painesville	Sea Grant	6			
2001	4	30	Lucente	Julie Ward, WSOS RCAP Program	Fremont	Wastewater and eco-tourism issues	4		x	
2001	4	30	Snyder	Great Lakes Sea Grant Network	Port Clinton	ANS Committee Conference Call	6		x	
2001	4	30	Williams	PET	Cleveland	Pre employment _ Money talk	4			
2001	4-5	30-1	Hageman	Mills School I	Gibraltar Island	Aquatic Science Workshop			44	
2001	5	1	Lichtkoppler	Local Officials	Willoughby	Strategic Planning / Land Use	18			
2001	5	1	Lucente	Lake Erie Protection Fund	Toledo	Wrote grant appl. For LEPP	1			
2001	5	1-2	Hageman	Mills School II	Gibraltar Island	Aquatic Science Workshop			45	
2001	5	2	Lucente	Dean Monske, Exec. Dir. Oregon EDF	Oregon	Intro. Mtg.	2		x	
2001	5	2	Williams	Strategic Alliance Tour	Cleveland	Bus tour for Urban conference	36			
2001	5	2-3	Hageman	Mills School III	Gibraltar Island	Aquatic Science Workshop			58	
2001	5	3	Hageman	OSU Lab Animal Protocol Com.	Stone Lab	Lab Animal Inspection	4			
2001	5	3	kelch	lake erie bass anglers club	elyria	smallmouth tagging update, organize	22			
2001	5	3	Lucente	Charter Captains, Fred S., Dave K.	Toledo	Set up Toledo Art. Reef Mtg.	10		x	
2001	5	3	Snyder	NWD Extension Agents	Bucyrus	Research Inservice Planning	6	x	x	
2001	5	3	Williams	Can Developers and Environmentalis	Cleveland	Preseation	12			
2001	5	3-4	Hageman	Mills School IV	Gibraltar Island	Aquatic Science Workshop			50	
2001	5	4	Hageman	St. Edwards H.S.	Gibraltar Island	Aquatic Science Workshop			32	
2001	5	4	Hageman	GLAERC	Toledo	Research Coordination				45
2001	5	4	Lucente	Darell Opfer, Ottawa County CIC Directo	Port Clinton	Intro. Mtg.	2		x	
2001	5	4	Lucente	GLAERC Mtg. At Lake Erie Center	Oregon	GLAERC Mtg.				30
2001	5	4	Snyder	GLAERC	Toledo	Research Conference				45
2001	5	4-5	Hageman	OSU Plankton Class	Gibraltar Island	Aquatic Science Workshop			28	
2001	5	5	Hageman	Black River M.S.	Gibraltar Island	Aquatic Science Workshop			14	
2001	5	7	kelch	lcvb sponsorship funfing comm mtg	lorain	set sponsorship policy for bureau				x
2001	5	7	Lichtkoppler	Co. Commissioners Day Committee	Jefferson	Co. Comm Day Planning	10			
2001	5	7	Lucente	Lucas County Extension	Toledo	Office Conference	20			
2001	5	7	Snyder	Great Lakes Sea Grant Network	Port Clinton	HACCP Conference Call	5		x	
2001	5	7	Snyder	Chet Bowling	Marion	Promotion & Tenure Counseling	1			
2001	5	7	Williams	PET	Cleveland	Pre employment trianing money talk	4			
2001	5	7-8	Hageman	Mills School V	Gibraltar Island	Aquatic Science Workshop			46	
2001	5	8	Hageman	OSU School Natural Resources	Gibraltar Island	Dist. Staff Award Presentation				40
2001	5	8	kelch	lecba/toledo art reef meeting	port clinton	discuss west basin art reef plans				x
2001	5	8	kelch	submerged lands advisory council mtg	lorain	submerged preserve issues, buoys				x
2001	5	8	Lucente	Dr. Kevin Czajkowski, UT	Oregon	Intro. Mtg.	4		x	
2001	5	8	Lucente	Toledo Artificial Reef Committee	Port Clinton	Toledo Artificial Reef Planning	8	x	x	
2001	5	8	Snyder	Toledo Artificial Reef Committee	Port Clinton	Toledo Artificial Reef Planning	8		x	
2001	5	8	Williams	Cuyahoga Rap	Peninsula	Cuyahoga river	16			
2001	5	8-9	Hageman	Mills School VI	Gibraltar Island	Aquatic Science Workshop			48	
2001	5	9	kelch	sea camp conference call	elyria	sea camp 2001 planning				x
2001	5	9	Lucente	John Conglose, OSU Ext.	Toledo	Mentoring	2		x	
2001	5	9	Snyder	Lake Erie Buffer Team	Columbus	Planning & Implementation	12		x	
2001	5	9-10	Hageman	Mills School VII	Gibraltar Island	Aquatic Science Workshop			48	
2001	5	10	Hageman	Zak Sutphin/Viviana Gervasio	Stone Lab	Research Tour			2	
2001	5	10	Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	12			
2001	5	10	Lucente	Northwest Ohio Regional Econ. Dev. As	Toledo	NORED Mtg.				32
2001	5	10	Lucente	Duck/Otter Creek Partneship	Oregon	Duck/Otter Creek Partnership Mtg.	22			
2001	5	10-11	Hageman	West Carrollton M.S.	Gibraltar Island	Aquatic Science Workshop			53	
2001	5	10-12	Hageman	Outdoor Writers of Ohio	Burr Oak State Park	Annual Conference				80
2001	5	11	Hageman	OSU Lima (Reaching Out to Youth)	Gibraltar Island	Aquatic Science Workshop			17	
2001	5	11	Lucente	J. Loftus, TLCPA, S. Bihn, Oregon	Toledo	Land Use Study of Fac. #3 in Oregon	4		x	
2001	5	11	Snyder	Sandusky Co. Park District	Fremont	Preserve Dedication	10			

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2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
2001	5	11	Williams	BREI annual conference	Ottawa Canada	Innovative Follow-up Programs	34			
2001	5	12	Hageman	Muskingum College	Stone Lab	Facilities Tour		15		
2001	5	12	Hageman	OSU Geology Class	Gibraltar Island	Aquatic Science Workshop		12		
2001	5	14	Hageman	Amherst Steele H.S.	Gibraltar Island	Aquatic Science Workshop		50		
2001	5	14	Hageman	Francesca Slimane/Emma Geraghty -						
2001	5	14	Lichtkoppler	Lake Co. Solid Waste Policy Board	Painesville	Recycling Survey Results	12			
2001	5	14	Snyder	Portage River Basin Council	Port Clinton	Tourism Planning	4			
2001	5	14	Williams	PET	Cleveland	Pre employment training	4			
2001	5	14-15	Hageman	McCord/Perry M.S.	Gibraltar Island	Aquatic Science Workshop		68		
2001	5	15	Hageman	OSU Extension Staff	Findlay	West Nile Teleconference				12
2001	5	15	Lichtkoppler	Land and Water Committee	Painesville	Land Use Plans	6			
2001	5	15	Lichtkoppler	SAMP Committeee	Mentor	SAMP	18			
2001	5	15	Lucente	Christina Treiber, COSI Toledo	Toledo	Partnership Mtg.	2		x	
2001	5	15	Snyder	Tourism Planners	Oak Harbor	Migratory Bird Conservation Conf.				30
2001	5	15-16	Hageman	Village Academy	Gibraltar Island	Aquatic Science Workshop		61		
2001	5	16	Snyder	www.walleyecentral.com	Port Clinton	Lake Erie Fisheries Discussion	24			
2001	5	16	Williams	Garfield cluster group	Garfield hts	Cluster group	49			
2001	5	16-18	Hageman	Bloom Carroll, Fairfield Union	Gibraltar Island	Aquatic Science Workshop	51			
2001	5	17	kelch	kelleys island u/w preserve mtg	kelleys island	preserve planning committee	18			x
2001	5	17	Lichtkoppler	Fairport Rod & Reel	Fairport	Lake Levels & Dredging	68			
2001	5	17	Lucente	Toledo Regional Growth Partnership	Toledo	Partners in Progress Annual Luncheon				350
2001	5	17	Lucente	Dr. KC Ting, OSU, Lee Springer, RGP	Toledo	International Lilly Grower Mtg.				12
2001	5	17	Williams	R&E	Columbus	Dave Krabill	3			
2001	5	18	Hageman	Rogers H.S.	Gibraltar Island	Aquatic Science Workshop		20		
2001	5	18	Lichtkoppler	NE District Extension Ag. Agents	Ashtabula	Sea Grant & ARP Project	25			
2001	5	18	Snyder	NW District Extension Staff	Findlay	Staff Meeting	13			
2001	5	21	Hageman	Ashland Co. Interventions Ctr.	Gibraltar Island	Aquatic Science Workshop		13		
2001	5	21	Lucente	Sea Grant Agents	Toledo	Conference Call Mtg.	8			
2001	5	21	Snyder	Sea Grant Staff	Port Clinton	Planning Conference Call	5			
2001	5	21-22	Hageman	Buckeye Valley M.S.	Gibraltar Island	Aquatic Science Workshop		51		
2001	5	22	Hageman	ODNR Div. Watercraft	Peach Point Rsch Lab	Tour Planning		15		
2001	5	22	Lichtkoppler	ARP Outreach	Ashtabula	ARP Project & Co. Comm Day	6			
2001	5	22	Lucente	Betsy Hood, COSI Toledo	Toledo	Set up Sea Grant & COSI Toledo Mtg.	5		x	
2001	5	22	Williams	Economic Development Network	Garfield Hts.	Business attraction	48			
2001	5	22-23	Hageman	Erwine M.S.	Gibraltar Island	Aquatic Science Workshop		51		
2001	5	23	kelch	whittier middle school, 7 & 8 biology	lorain	changes in lake erie, contaminants	65			
2001	5	23	Lichtkoppler	ARP Project Committee	Ashtabula	ARP Project	12			
2001	5	23	Lichtkoppler	ARP Coordinating Committee	Ashtabula	ARP Project Update	21			
2001	5	23	Lucente	Grants Writing In-Serive	Columbus	Attended Grants Writing Workshop				20
2001	5	23-24	Hageman	Englewood Elementary	Gibraltar Island	Aquatic Science Workshop		25		
2001	5	24	Hageman	Springfield South H.S.	Gibraltar Island	Aquatic Science Workshop		8		
2001	5	24	Lichtkoppler	Grand River Association	Fairport	Recreational Dredging				9
2001	5	24	Lucente	Margy Poorman, RGP	Toledo	Intro. Mtg.	2		x	
2001	5	24	Lucente	Carolyn Shermbeck, Cathy Miller, TCVB	Toledo	Partnership Mtg.	3		x	
2001	5	24	Snyder	Ottawa County Pond Owners	Oak Harbor	Pond Management	37			
2001	5	24-25	Hageman	Toth Elementary	Gibraltar Island	Aquatic Science Workshop	63			
2001	5	25	Hageman	Ken Radie (Hudson M.S.)	Bayview Office	Fall 2001 W.S.		2		
2001	5	25	kelch	terra community college bio students	port clinton	changes in lake erie, artificial reefs	27			
2001	5	29	Lichtkoppler	LE Heritage Tourism Steering Committee	Cleveland	Nature Based Tourism Project	10			
2001	5	29	Lucente	Jim Spangler, Toledo Metro Parks	Toledo	Intro. Mtg.	2		x	
2001	5	29	Snyder	Port Clinton High School Students	Port Clinton	Lake Erie Issues	53			
2001	5	29-30	Hageman	Toledo Horizon I	Gibraltar Island	Aquatic Science Workshop		34		
2001	5	30	Hageman	NEMO Program/Sea Grant Staff	Wooster	NEMO-Watershed Mtg.				14
2001	5	30	kelch	western art reef planning mtg	elyria	develop plans for reef		3		

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2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
2001	5	30	kelch	Sea Grant Staff & NEMO Staff	wooster	watershed issues, cooperation				x
2001	5	30	Lichtkoppler	ARP Restoration	Ashtabula	NRD Restoration Ideas	5			
2001	5	30	Lichtkoppler	Sea Grant Staff & NEMO Staff	Wooster	Ohio NEMO Project	9			
2001	5	30	Lucente	D. Kelch, F. Snyder, Sea Grant	Lorain	Toledo Art. Reef Mtg.	3		x	
2001	5	30	Lucente	Sea Grant Staff & NEMO Staff	Wooster	NEMO mtg.				18
2001	5	30	Snyder	Sea Grant Staff & NEMO Staff	Wooster	NEMO Program	9			
2001	5	30-31	Hageman	Toledo Horizon II	Gibraltar Island	Aquatic Science Workshop			44	
2001	5	31	Hageman	Rick James - pib.com	Peach Point Rsch Lab	Mayfly Program for Website	3			
2001	5	31	Hageman	Lake H.S.	Gibraltar Island	Aquatic Science Workshop			27	
2001	5	31	Hageman	- Poole England	Gibraltar Island	Facilities Tour			2	
2001	5	31	Lichtkoppler	OSG Research Project Review Team	Columbus	Preproposal Review	9			x
2001	5	31	Lucente	Maumee River Basin Part. Local Govts.	Fort Wayne, IN	Regional Mtg. On Maumee River				40
2001	5	31	Snyder	Ohio Sea Grant Research Review Panel	Columbus	Proposal Review	10			
2001	5-6	31-1	Hageman	Jones Middle School	Gibraltar Island	Aquatic Science Workshop			36	
2001	6	1	Hageman	Bryan Allen-OSU Bookstore	Gibraltar Island	Bookstore Set Up			6	
2001	6	1	kelch	whittier middle school, 7 & 8 biology	lorain	lake erie fishery issues	61			
2001	6	1	Lucente	North Cen. Ohio Reg. Econ. Dev. Assoc	Sandusky	Regional Mtg.				12
2001	6	2	Hageman	N. Ohio Herpetological Society	Gibraltar Island	Snake Research Tour			13	
2001	6	3	Hageman	EEOB 125 Class	Gibraltar Island	Stone Lab Orientation	8			
2001	6	4	Hageman	Ft. Jennings Envirothon	Gibraltar Island	Aquatic Science Workshop			9	
2001	6	4	Hageman	Northwest District Office Extension	Findlay	Derma Scan Training				33
2001	6	4-6	kelch	r/v buckeye I research boat	port clinton, elyria	prep research boat for summer work		1		
2001	6	5	Hageman	Whiteford M.S.	Gibraltar Island	Aquatic Science Workshop	90			
2001	6	5	Lichtkoppler	ARP Restoration	Ashtabula	NRD Restoration Ideas	4			
2001	6	5	Lucente	Kurt Erichson, Dave Gideon, TMACOG	Toledo	Intro. Mtg.	3		x	
2001	6	5-6	Hageman	ODNR	Peach Point Rsch Lab	Wild Life Meetings			14	
2001	6	6	Lichtkoppler	Audubon Society	Cleveland	Tourism	15			
2001	6	6	Lucente	Jeff Reutter, Sea Grant, COSI Toledo	Toledo	Partnership Mtg.	5		x	
2001	6	7	Hageman	Grizzel M.S.	Gibraltar Island	Aquatic Science Workshop	66			
2001	6	7	kelch	glsgn conference team, conference call	elyria	glsgn fall conference planning				x
2001	6	7	Lucente	Lucas County Advisory Ext. Cab. Mtg.	Toledo	Advisory Cabinet Mtg.	17			
2001	6	7	Snyder	Port Clinton Mayor	Port Clinton	Composting Brochure Development	3			
2001	6	8	Lichtkoppler	ARP Restoration	Ashtabula	NRD Restoration Ideas	5			
2001	6	8	Lucente	Fred Snyder, Sea Grant	Port Clinton	Mentoring Mtg.	2			
2001	6	9	Hageman	New State Legislators	Gibraltar Island	Facilities Tour			50	
2001	6	9	kelch	osg elected officials leadership day	put-in-bay, stone lab	four presentations, artificial reefs	50			
2001	6	9	Lichtkoppler	Ohio State Legislators	Put-in-Bay	Sea Grant Research / LE Issues	80			
2001	6	9	Lucente	Ohio State Legislators	Put-in-Bay	Sea Grant Research / LE Issues	80			
2001	6	9	Snyder	Ohio State Legislators	Put-in-Bay	Sea Grant Research / LE Issues	80			
2001	6	10	Hageman	EEOB 126, Geo 107, Nat 611	Gibraltar Island	Stone Lab Orientation	32			
2001	6	10-11	Lichtkoppler	IAGLR Conference	Green Bay , WI	ARP Economics	30			
2001	6	11	Snyder	PRBC Recreation & Wildlife Committee	Elmore	Tourism Planning	7			
2001	6	11	Snyder	Toledo Blade	Toledo	Mayfly Interview				
2001	6	12	kelch	osu extension diversity training seminar	elyria	diversity training, inservice				x
2001	6	12	Lucente	NW District, OSU Ext.	Findlay	NW District Specialist Interviews				24
2001	6	12	Snyder	NWD Extension Agents	Findlay	CD Specialist Interviews				18
2001	6	13	Lucente	Storm Water Management Seminar	Columbus	Attended Semiar				100
2001	6	14	Hageman	Visitors for Guest Lecture	Gibraltar Island	Lake Erie Geology			44	
2001	6	14	kelch	west cleveland walleye association	cleveland	lake erie update, angling issues	47			
2001	6	14	Lucente	Northwest OH Reg. Econ. Dev. Assoc.	Toledo	NORED Mtg.	42			
2001	6	14	Lucente	Maumee RAP	Toledo	Attended RAP Mtg.	30			
2001	6	15	Hageman	Northwest District Extension Office	Gibraltar Island	Science Cruise/Office Conference	11			
2001	6	15	kelch	transport r/v buckeye I research boat	elyria, port clinton	trailer research vessel to marina			1	
2001	6	15	Lucente	NW District Extension Staff	Put-In-Bay	Staff Meeting	14			



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2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
2001	6	15	Snyder	NW District Extension Staff	Put-in-Bay	Staff Meeting	14		x	
2001	6	16	Hageman	Williams Co. Extension	Gibraltar Island	Watershed Ecol. Workshop			20	
2001	6	16	Hageman	Rich King, et. al	Northbass Island	Water Snake Research	4			
2001	6	17	Hageman	Rich King, et al	Middlebass Island	Water Snake Research	4			
2001	6	17	Hageman	Term One Students	Gibraltar Island	Stone Lab Orientation	26			
2001	6	18	Hageman	Distinguished Staff Recipients	Columbus	2001 Distinguished Staff Awards				90
2001	6	18	kelch	research dive, wreck of prince, video	kelleys island	archaeological project, prince wreck				x
2001	6	18	Snyder	Port Clinton News-Herald	Port Clinton	Mayfly Interview				
2001	6	18-19	Lucente	D. Kelch, Sea Grant and MAST TEAM	Kelley's Island	Document Wreck of The Prince	36			
2001	6	19	Hageman	Research Lecture Attendees	Gibraltar Island	Lake Erie Water Snakes				33
2001	6	19	kelch	research dive, wreck of prince, video	kelleys island	archaeological project, prince wreck				x
2001	6	20	kelch	research dive, wreck of prince, video	kelleys island	archaeological project, prince wreck				x
2001	6	20	kelch	kelleys island u/w preserve mtg	kelleys island	lake erie shipwrecks, underwater video	22			
2001	6	20	Lucente	D. Kelch, Sea Grant and MAST TEAM	Kelley's Island	Kelley's Island Underwater Preserve Mtg	18			
2001	6	20	Snyder	Ohio Lake Erie Commission	Fremont	Commission Meeting				30
2001	6	21	Hageman	Guest Lecture Attendees	Gibraltar Island	Engineered Micro Algae			34	
2001	6	21	kelch	research dive, wreck of prince, video	kelleys island	archaeological project, prince wreck				x
2001	6	21	Lichtkoppler	Lake Co. Ext. Staff	Windsor, OH	Inservice	22			x
2001	6	21	Snyder	Lucas Co. Pond Owners	Whitehouse	Pond Management	29			
2001	6	21-22	Lucente	D. Kelch, Sea Grant and MAST TEAM	Kelley's Island	Document Wreck of The Prince	36			
2001	6	22	Hageman	Columbus Athletic Assoc.	Catawba	Judge Walleye Tournament	91			
2001	6	22	Hageman	Fred Snyder Family	Gibraltar Island	Facilities Tour				3
2001	6	22	kelch	research dive, wreck of prince, video	kelleys island	archaeological project, prince wreck				x
2001	6	22	kelch	public meeting, underwater preserve	kelleys island	lake erie shipwrecks, underwater video	110			
2001	6	24	Hageman	EEOB 694	Gibraltar Island	Stone Lab Orientation			15	
2001	6	24	Hageman	EEOB 692 Class	Peach Point Rsch Lab	Ichthyoplankton Workshop	11			
2001	6	25	Hageman	Pheasants - Forever Board	Vickery, OH	Spring Meeting	18			
2001	6	25	Lucente	Ohio Lake Erie Heritage Area Task Force	Toledo	Attended Eco-tourism Initiative Mtg.				32
2001	6	25	Snyder	Lake Erie Wing Watch	Birmingham	Future Program Planning	14			
2001	6	26	Hageman	BGSU Governors Summer Institute	Gibraltar Island	Aquatic Science Workshop			30	
2001	6	26	Hageman	James Edmister	Gibraltar Island	Facilities Tour			10	
2001	6	26	Lucente	Ohio Lake Erie Protection Fund	Toledo	Reviewed LEPP Applications for funding	14			
2001	6	26	Snyder	Ottawa Co. Heritage Tourism Task Force	Port Clinton	Tourism Research Planning				60
2001	6	27	kelch	lorain county visitors bureau board mtg	lorain	board of directors, bureau planning		18		
2001	6	27	Lucente	Ohio Lake Erie Protection Fund	Huron	Attended LEPP Grants Selection Comm	18			
2001	6	28	Hageman	Lab Animal Protocol Committee	Stone Lab	Facilities Inspection				5
2001	6	28	Hageman	Guest Lecture Attendees	Gibraltar Island	Lake Erie Shipwrecks				67
2001	6	28	kelch	wcpn public radio, cleveland	cleveland	fish contaminants, fish consumption				
2001	6	28	Lucente	Anne Moore, Toledo Area Chamber Com	Toledo	Partnership Mtg.	5	x	x	
2001	6	28	Lucente	Duck/Otter Creek Partnership	Oregon	Attended Duck/Otter Creek Part. Mtg.	19			
2001	6	28	Snyder	Ohio ANS Task Force	Columbus	Steering Committee	12		x	
2001	7	2	Hageman	Dr. Peter Langrum, NOAA GLERL	Stone Lab	Research				2
2001	7	2	Hageman	Dr. Jeffery Miner, BGSU	Gibraltar Island	Research				6
2001	7	2	Lucente	Lake Erie Protection Fund	Toledo	Review of Large Grant Proposals				14
2001	7	3	Hageman	Stone Lab Supporting Departments	Columbus	Courier Run			12	
2001	7	3	Hageman	Stone Lab Students/Faculty	Gibraltar Island	Dr. Ken Kreiger, Mayflies			36	
2001	7	4	Hageman	Richard and Louise Werner	Gibraltar Island	Facilities Tour	2			
2001	7	4	Hageman	George and Linda Norris	Gibraltar Island	Facilities Tour	2			
2001	7	5	Hageman	Virginia Trelaway	Gibraltar Island	Facilities Tour	8			
2001	7	5	Hageman	Jeff Busch	Gibraltar Island	Meeting Lake Erie Monitoring				1
2001	7	5	Hageman	Visitors for Guest Lecture	Gibraltar Island	John Kleberg-Cooke Castle History	37			
2001	7	5	Lucente	Ohio Sea Grant Program	Toledo	Submitted activity and accomp. Reports				2
2001	7	6	Hageman	State Rep. Chris Redfern	Put-in-Bay	Legislator Visit Planning				10
2001	7	6	kelch	stadium art reefs, dive cooperato	cleveland	research procedures	2			

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2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
2001	7	8	Hageman	NRE 690 Students	Gibraltar Island	Stone Lab Orientation	11			
2001	7	9	Hageman	Ohio Bi-Centennial Committee	Put-in-Bay	Ohio's Bi-Centennial Celebration Plan				14
2001	7	9	Hageman	Howser Family	Gibraltar Island	Facilities Tour			9	
2001	7	9	kelch	ohio 4-H sea camp	kelleys island	lake erie environment, lure making	95			
2001	7	9	Lucente	Capt. Paul Pacholsky	Toledo	Lake Research for Toledo Artificial Reef	6		xx	
2001	7	9	Williams	BREI Conference call	Cleveland	BREI business	12			
2001	7	9-13	kelch	ohio 4-H sea camp	kelleys island	youth education, lake erie topics		100		
2001	7	10	Hageman	BGSU Governors Summer Institute	Gibraltar Island	Aquatic Science Workshop			26	
2001	7	10	Hageman	Stone Lab Students/Faculty	Gibraltar Island	Doug Kane - BioIndexing w/plankton			42	
2001	7	10	kelch	ohio 4-H sea camp	kelleys island	shipwrecks, fish id, scuba/snorkel	95			
2001	7	11	Hageman	Cleveland Scholarship Program I	Gibraltar Island	Facilities Tour	49			
2001	7	11	Hageman	Girl Scouts of Erie Shores	Gibraltar Island	Aquatic Science Workshop			19	
2001	7	11	Hageman	Stone Lab Students/Faculty/Staff	Middle Bass	Softball Game			32	
2001	7	11	kelch	ohio 4-H sea camp	kelleys island	shipwrecks, fish id, scuba/snorkel	95			
2001	7	12	Hageman	Rep. Chris Redfern	Put-in-Bay	Legislator Visit Planning				10
2001	7	12	Hageman	Great Lakes Area Eco. Rsch Consortium	Gibraltar Island	Research Meeting			28	
2001	7	12	Hageman	Visitors for Guest Lecture	Gibraltar Island	Dr. Bob Heath-Bacteria in Food Web	14			
2001	7	12	kelch	ohio 4-H sea camp	kelleys island	lake erie angling ed, fish cleaning	95			
2001	7	12	Lucente	Toledo-Lucas County Port Authority	Toledo	USACE Water Resource Re-con Study	28			
2001	7	13	Hageman	Cleveland Scholarship Program II	Facilities Tour	Facilities Tour	40			
2001	7	13	Hageman	Ohio Chap. American Fish. Soc.	Gibraltar Island	Summer Mtg/Science Cruise	22			
2001	7	13	kelch	ohio 4-H sea camp	kelleys island	lake erie aquatic biology, ecology	95			
2001	7	13	Lichtkoppler	Mentor Lagoons Ships Festival	Mentor	Mentor Mrsh Exhibit	xx			xx
2001	7	15	Hageman	Coastal Zone '01 Conference	Gibraltar Island	Facilities Tour	28			
2001	7	15	Lichtkoppler	Coastal Zone '01 Conference	Mentor	Coastal Zone 2001 beach tour	8		xx	
2001	7	16	Hageman	Donauer Family	Gibraltar Island	Facilities Tour			2	
2001	7	16-18	Snyder	Coastal Zone '01 Conference	Cleveland	Presentations and Exhibit				
2001	7	16-19	kelch	coastal zone 2001 inter. Conference	cleveland	international coastal issues conference				
2001	7	16-19	Lichtkoppler	Coastal Zone '01 Conference	Cleveland	Presentations and Exhibit				
2001	7	16-19	Lucente	Coastal Zone '01 Conference	Cleveland	Presentations and Exhibit				
2001	7	17	Hageman	OSU Wooster Faculty/Staff	Gibraltar Island	Aquatic Science Workshop	18			
2001	7	17	Hageman	Stone Lab Students/Faculty	Gibraltar Island	Adrienne Smith-Stream Insects			16	
2001	7	18	Hageman	Beck Family	Gibraltar Island	Facilities Tour			2	
2001	7	18	Lichtkoppler	Coastal Zone '01 Conference	Cleveland CZ 01 Conference	Mentor Lagoons Poster	30			
2001	7	19	Hageman	Reining Family	Gibraltar Island	Facilities Tour	4			
2001	7	19	Hageman	Ohio Legislators	Gibraltar Island	Facilities Tour	42			
2001	7	19	Hageman	Term Two Students	Gibraltar Island	Stone Lab Orientation	22			
2001	7	19	Lichtkoppler	Scientists & Resource Managers	Cleveland CZ 01 Conference	Ashtabula River Partnership Paper	30			
2001	7	21	Hageman	Kent St. Univ. Geology Students	Gibraltar Island	Facilities Tour	19			
2001	7	21	Snyder	Ohio Aquaculture Association	New Philadelphia	Bait Fish Culture	60			
2001	7	22	Hageman	GEO 584 Students	Gibraltar Island	Stone Lab Orientation	14			
2001	7	22	Hageman	NRE 691 Students	Gibraltar Island	Plankton ID Lab	10			
2001	7	23	Hageman	Rhonda Crawford	Gibraltar Island	Facilities Tour			2	
2001	7	23	kelch	western art reef planning mtg	elyria	develop plans for reef		3		
2001	7	23	Lucente	Toledo Artificial Reef Committee	Port Clinton	Held artificial reef meeting in P.C.	5	xx	xx	
2001	7	23	Snyder	Toledo Artificial Reef Committee	Port Clinton	Reef Development	6		xx	
2001	7	24	Hageman	Glen Helen EcoCamp	Gibraltar Island	Aquatic Science Workshop			8	
2001	7	24	Lucente	Dr. Beth Walter-Hondale	Bowling Green	Intro. Mtg.	3		xx	
2001	7	24-25	Lichtkoppler	Ashtabula River Partnership	Ashtabula	ARP Planning	xx			16
2001	7	25	Hageman	Stone Lab Students/Faculty	Gibraltar Island	Jason Manzo - Fossil Insects			21	
2001	7	25	kelch	kelleys island u/w preserve mtg	kelleys island	underwater preserve planning mtg	23			x
2001	7	25	Lucente	Kelley's Island UP Planning Team	Kelley's Island	UP Planning Meeting	18			
2001	7	26	Hageman	EEOB 653 Class	Gibraltar Island	Intro. to Ichthyoplankton	10			
2001	7	26	Hageman	Visitors for Guest Lecture	Gibraltar Island	Mike Costello - Fishing in Ohio	3			

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2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
2001	7	26	Lichtkoppler	Tom Hill	Mentor	State Park Sand Conservation Ideas	3			
2001	7	26	Lucente	Angela Manuszak, Lucas Co. SWCD	Maumee	Intro. Mtg.	2	xx		
2001	7	26	Lucente	John Seewer, Toledo Associated Press	Toledo	Phone Interview for Toledo Art. Reef Proj	2			
2001	7	27	Hageman	Ohio E.P.A., N.E. District	Gibraltar Island	Aquatic Science Workshop	23			
2001	7	30	Lichtkoppler	Co. Commissioners Day Committee	Jefferson	Co. Comm Day Events	8			
2001	7	30	Lucente	Ohio Sea Grant Program	Toledo	Submitted Ask Your Agent Art. to Jill Je	2	xx		
2001	7	30	Williams	Pet	Cleveland	Pre employment training	12			
2001	7	31	Hageman	Stone Lab Students/Faculty	Gibraltar Island	Geoff Steinhart - Smallmouth Bass			41	
2001	7-8	29-4	Snyder	EEOB 125 Students	Stone Laboratory	Intro. to Aquatic Bilogy - 3 credit hours	140	xx	xx	
2001	8	1	Lichtkoppler	Stone Lab Students	Sandusky/Ottawa Counties	Aquatic Biology				xx
2001	8	1	Lucente	Fred Snyder at Stone Lab	Catawba Island	Observe F. Snyder teach biology studer	15			
2001	8	1-2	Williams	ICCM show	Chicago	Call Center show	2			
2001	8	2	Hageman	MET Tours, Archabold	Gibraltar Island	Facilities Tour	30			
2001	8	2	Hageman	U.R.S.	Gibraltar Island	Facilities Tour	2			
2001	8	2	Hageman	Visitors for Guest Lecture	Gibraltar Island	Chris Jones - Enviro. Regs in Ohio	15			
2001	8	2	kelch	stadium art reefs, dive cooperato mtg	cleveland	research procedures		4		
2001	8	2	Lucente	TMACOG/NOMMA Mtg. At P-I-B	Port Clinton	Participate in Annual TMACOG/NOMMA	200			xx
2001	8	3	Hageman	Susan Richburg	Gibraltar Island	Facilities Tour			3	
2001	8	3	Lucente	Capt. Paul Pacholsky	Toledo	Toledo Artificial Reef Research			xx	6
2001	8	3	Williams	Honda Plant tour	Marysville	Plant tour		5		
2001	8	4	Hageman	Tom Kobol	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	36			
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	Grace Kilbane- Dung Beetles			28	
2001	8	7	Lichtkoppler	SWCD Staff	Grand River / Lake Erie Tour	Lake Erie Issues	46			
2001	8	7	Lucente	Fred Snyder	Catawba Island	Bottom Sampling for Tol. Art. Reef Proj	2		xx	
2001	8	8	Lichtkoppler	OSU Geology Students	Lake / 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	kelch	aqua amigos dive club	cleveland	underwater preserve/shipwreck update	45			
2001	8	9	Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management	14			xx
2001	8	9	Lucente	Northwest Ohio Reg. Econ. Dev. Assoc.	Toledo	NORED Mtg.	42			
2001	8	9	Lucente	Maumee RAP	Toledo	Attended RAP mtg.	30			xx
2001	8	9	Williams	Akron Warehouse & Storage	Cleveland	Consultation	3			
2001	8	10	Hageman	Neal Banaczak	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				12
2001	8	13	Hageman	Brenda Culler, Sandusky Register	Gibraltar Island	L.E. Water Snake Article	2			
2001	8	13	Lucente	Capt. George Fuller	Toledo	Bottom Sampling for Tol. Art. Reef Proj	5		x	
2001	8	13	Snyder	Toledo Artificial Reef Committee	Curtice	Substrate Sampling	4			
2001	8	13	Williams	BREI Conference call	Cleveland	BREI business	12			
2001	8	13	Williams	PET	Cleveland	Pre employment training	12			
2001	8	14	Hageman	Stone Lab Students/Faculty	Gibraltar Island	Marc Branham - Lightning Bugs			20	
2001	8	14	kelch	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			

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2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
2001	8	15	Lucente	Toledo Chamber of Commerce	Toledo	Leadership Training Mtg.	6	xx	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	kelch	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	Jefferson	Ohio Sea Grant College Program Exhibi	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	Plant 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	
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	Snyder	PRBC Rec & Wildlife Committee	Pemberville	Tourism Inventory	6	xx	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			
2001	9	4	Hageman	3 Dept. Meeting	Columbus	Stone Lab Future Growth				8
2001	9	4-5	Hageman	Grace Brethren - Centerville	Gibraltar Island	Aquatic Science Workshop			28	
2001	9	5	kelch	weol radio, elyria	elyria	lake levels, fall fishing				
2001	9	5	Lichtkoppler	L.E. Commission	Mentor	Lake Erie				xx
2001	9	5	Lucente	State 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. Reseach Lab	NOAA Zebra Mussel Research			3	
2001	9	6	kelch	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			

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

2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
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	kelch	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 Thoma/Brent Kinsley	Peach Pt. Reseach 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 Confer	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	Lucente	Sea Grant Network Mtg.	Erie, PA	Great Lakes Sea Grant Network Confer	120			
2001	9	12-13	Hageman	Hilliard Station II - Hilliard	Gibraltar Island	Aquatic Science Workshop			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	
2001	9	17	Hageman	10th Put-in-Bay Underwater Clean Up	Put-in-Bay	Underwater Clean Up			175	
2001	9	17	Hageman	Pheasants Forever Board	Oak Harbor	Monthly Meeting				
2001	9	17	Lichtkoppler	Lake County Staff	Painesville	Inservice	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	Reutter & Kelch	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	kelch	smallmouth bass research	lorain	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	kelch	ohio sea grant research proposals	columbus	review team, research proposals				x
2001	9	24-25	Lichtkoppler	OSU Ext. Dept. Prom. & Tenure Comm	Columbus	Candidate Review and Voting	12			
2001	9	24-25	Snyder	OSU Ext. Dept. Prom. & Tenure Comm	Columbus	Candidate Review and Voting	12			
2001	9	24-25	Hageman	Bexley M.S. - Bexley	Gibraltar Island	Aquatic Science Workshop			51	
2001	9	24-26	Lucente	Brownfields 2001 Conference	Chicago, IL	Brownfields 2001 Conference				
2001	9	25	kelch	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	14			
2001	9	26	kelch	lorain county visitors bureau board mtg	lorain	board of directors, bureau planning		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	29	Hageman	Black River M.S. - Sullivan	Gibraltar Island	Aquatic Science Workshop			17	
2001	9	29	Hageman	NRE 810 Class	Gibraltar Island	Observe Aquatic Science Workshop			3	

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

2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
2001	9	29	kelch	NWTF youth outdoors education day	medina	angling education, fish cleaning	75			
2001	9	29	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	kelch	stadium art reefs, dive cooperators mtg	cleveland	research procedures	4			
2001	10	8	Williams	Establishing a Watershed district	Aurora	Watershed district	5			
2001	10	10	kelch	smallmouth bass research	lorain	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	kelch	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	kelch	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			
2001	10	17	Snyder	Lake Erie Wing Watch	Sandusky	Program Planning	12	xx		
2001	10	18	kelch	lorain county visitors bureau board mtg	lorain	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	Rention & Expansion	3			
2001	10	19	Lucente	OSU Extension	Columbus	Effective Teaching In-Service	25			
2001	10	19	Snyder	Port Clinton Core Group	Port Clinton	Transient Marina Planning	8	xx		
2001	10	23	Lichtkoppler	Tourism Directors	Sawmill Creek	Lake Erie Heritage Tourism				12
2001	10	23	Williams	S.S Stein****	Geneva, Oh	Brownfied redevelopment	3			
2001	10	24	Lichtkoppler	ARP Project Committee	Ashtabula	Dredging Project Design				12
2001	10	24	Lichtkoppler	ARP Coordinating Committee	Ashtabula	Project Management				14
2001	10	24	Lichtkoppler	Citizens	Willowick	Lake Erie Heritage Tourism				25
2001	10	24	Snyder	Lake Erie Buffer Team	Tiffin	Implementation Update	14	xx		
2001	10	24	Snyder	GLSGN ANS Conference Call	Port Clinton	HACCP Bait Project	6	xx		
2001	10	25	kelch	OSU Ag Faculty Fall Annual Mtg.	columbus	department and faculty updates/issues				x
2001	10	25	Lichtkoppler	KSU Students	Ashtabula	Lake Erie Programs	10			
2001	10	25	Lucente	Ohio Lake Erie Heritag Group	Huron	Ohio Lake Erie Heritage Tourism Updat	48			
2001	10	25	Snyder	Tourism Leaders	Huron	Heritage Tourism				35
2001	10	25	Williams	Business Without Barders***	Euclid	R&E	61			
2001	10	25	Williams	Cuyahoga Rap	Penninsula	Watershed district	35			
2001	10	27	Williams	Donkin for donuts	YMCA	Pet networking mtg.	26			
2001	10	30	kelch	smallmouth bass research	lorain	volunteer instruction, tagging fish			2	
2001	10	30	Lucente	Lucas County Constituents	Toledo	Northwest Ohio Brownfield Restoration	70			
2001	10	30	Williams	Bedford Hts TBz training***	Bedford Hts	Prep for TBZ				
2001	10	31	kelch	OSU Extension n/e district inservice	wooster	directors update, meetings				x
2001	11	1	kelch	osu mandatory inservice	elyria	sexual harrassment telecast, meeting				x
2001	11	1	Lucente	NW District	Findlay	Sexual Harassment Seminar	40			
2001	11	1	Snyder	Atkinson School Students	Fremont	Aquatic Life Day	270			
2001	11	1	Snyder	Fremont Power Squadron	Fremont	Lake Erie Issues	33			
2001	11	2	Lucente	Colleges, Interested Parties	Toledo	National Water Crisis Conference				300
2001	11	5	Lucente	North Central Ohio Reg. Econ. Dev. Ass	Toledo	NCOREDA Mtg.	12			
2001	11	5	Williams	PET	Cleveland	Money Values	16			
2001	11	7	kelch	LENSC youth program, invited talk	bay village	changes in lake erie	60			

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

2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28			
2001	11	7	Williams	Cottman Transmission	Cleveland	Private consultation	4			
2001	11	8	kelch	lcvb policy sub-committee meeting	lorain	visitor bureau policy changes		6		
2001	11	8	Lichtkoppler	OSU Extension Agents	Unionville	P&T	4			
2001	11	8	Lichtkoppler	Mentor Marsh Board	Mentor	Marsh Management / Lake Erie	13			
2001	11	8	Lucente	Northwest Ohio Reg. Econ. Dev. Assoc.	Toledo	NORED Mtg.	42			
2001	11	8	Williams	National Tbz	Cleveland	Business Attraction	12			
2001	11	9	Lucente	OSU CD Agents Mtg.	Columbus	CD Agent Mtg.	45			
2001	11	9	Williams	Zoining forum	Columbus	Educational forum		60		
2001	11	12	Williams	PET	Cleveland	Leadership	16			
2001	11	13	kelch	submerged lands advisory council mtg	vermillion	preserves, shipwreck buoys				x
2001	11	13	Lichtkoppler	Citizens& OSU Extension Agents	Columbus	Benefit Cost Applied economics	53			
2001	11	13	Lucente	NW District	Findlay	URS Training				45
2001	11	13	Snyder	NW District	Findlay	URS Training				45
2001	11	13	Williams	Agent retreat	Cleveland	Programming 2002	9			
2001	11	14	Lichtkoppler	ARP Project Committee	Ashtabula	Dredging Project Design				13
2001	11	14	Lichtkoppler	ARP Coordinating Committee	Ashtabula	Project Management				16
2001	11	14	Lucente	Lucas County Residents	Oregon	Master Plan Mtg. For Fac. #3	28			
2001	11	14	Williams	Great Lakes Industrial Show I-x ctr	Cleveland	Business retention	36			
2001	11	15	kelch	midview middle school 7 & 8 science	grafton	changes in lake erie, exotic species	64			
2001	11	15	Lichtkoppler	Cuyahoga SWCD	Valley View	Citizen Survey	6			
2001	11	16	Snyder	NWD Extension Staff	Findlay	Office Conference				11
2001	11	16	Williams	R&E	Columbus	R&E	3			
2001	11	19	kelch	sea camp conference call	elyria	sea camp 2002 planning, 2001 final				x
2001	11	19	Lichtkoppler	Ashtabula Co Commissioners & Consult	Jefferson	Geneva St. Park Lodge	6			
2001	11	19	Lucente	ODNR Grant Review Committee	Sandusky	Grant Review Team Mtg.	5			
2001	11	19	Williams	BREI Conference call	Cleveland	Board mtg.	10			
2001	11	19	Williams	Pet	Clevelands	Leadership	16			
2001	11	19	Williams	Brei Mkt committee conference call	Cleveland	BREI business	5			
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	kelch	lorain county visitors bureau board mtg	lorain	board of directors, bureau planning		14		
2001	11	28	Lichtkoppler	Agency Officials	Mentor	EMA Nuke Disaster Training				46
2001	11	28	Lucente	Joe Konen, Greg Davis	Toledo	Review of Urban Extension Program Mtg	3			
2001	11	28	Williams	Linda Highsmith Cleveland Port	Cleveland	Consultation	2			
2001	11	29	kelch	midview brush school grade 6 science	grafton	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			
2001	12	3	kelch	sea grant program office	columbus	meetings				x
2001	12	3	Lucente	Allen County Extension Office	Allen County	Vita Writing Workshop	35			
2001	12	3	Snyder	Extension Agents	Lima	Promotion & Tenure Workshop	27			
2001	12	3	Williams	Pet	Cleveland	Leadership	16			
2001	12	4	kelch	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				
2001	12	4	Snyder	OSU Extension	Columbus	OEAA Recognition Banquet				
2001	12	4	Williams	OSU Extension	Columbus	OEAA Recognition Banquet				
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			

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2001	1	2	kelch	osu extension cty advisory committee	elyria	sea grant/lake erie update	28				
2001	12	5	Williams	Farmer Market	Cleveland	Client Visit	5				
2001	12	6	Lucente	Lucas County Extension Advisory Cab. M	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	Toussaint River Property Owners	Oak Harbor	Spent Ordinance Study	31				
2001	12	8	Williams	Gossip in the Workplace	Toledo	Orgtizational annual mtg for REO CM	60				
2001	12	11	kelch	sea grant agents, directors meeting	elyria	sea grant planning for 2002					x
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	Farmiland Task Force	Painesville	Land Use Survey	7				
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	kelch	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. Obenour Mtg.	4	xxx	xxx		
2001	12	18	Lichtkoppler	MARC/SAMP Committee	Mentor-on-the-Lake	Watershed Planning	14				
2001	12	18	Lucente	Cherry 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. Plan	Toledo	Planning Mtg.	4	xxx	xxx		
2001	12	19	Snyder	Port Clinton News-Herald Interview	Port Clinton	Ice Fishing					
2001	12	20	kelch	west cleveland walleye association	cleveland	lake erie update	57				
2001	12	20	Lichtkoppler	Farmiland 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			
2001	12	21	Lichtkoppler	Citizens	Mentor	Mentor Marsh & CMNH	5				
2001	12	21	Lucente	URS report	Toledo	URS Report	1	xxx			
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				



































