

Ohio Sea Grant College Program

Friends of Stone Laboratory

Annual Report 2005-2006

FRIENDS OF STONE LABORATORY



THE
OHIO STATE
UNIVERSITY

Sea Grant
Ohio Sea Grant College Program
OHSU-TB-083

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Friends of Stone Laboratory
Annual Meeting
September 9, 2006

Agenda

Welcome and Introductions Doug Kane, Outgoing FOSL President
Jeff Reutter, Stone Lab Director

President's Report Doug Kane

Director's Report Jeff Reutter

Lab Managers' Report John Hageman and Matt Thomas

Awards

Annual Business Meeting Doug Kane

- Election of officers and board members
- New business
 - Tuition Reduction Endowment

Closing Comments Chris Winslow, Incoming FOSL President

2005 – 2006 FOSL Annual Report **Doug Kane, President**

This past year the Friends of Stone Laboratory continued to improve our traditional activities that support the lab, but also worked toward increasing our visibility. Listed below are the highlights of our very productive year.

Fall Highlights:

- The Open House event (held on September 10) allowed over 1000 people to visit and learn more about Stone Laboratory, the South Bass Island lighthouse, and Cooke Castle. \$897.16 was raised through donations and sales.
- Co-hosted the Buckeye Island Hop (held on October 1).
- Business cards for the FOSL Board printed and distributed.
- PAT review (in which FOSL participated) ranks Ohio Sea Grant as one of the top 7 Sea Grant programs in the country.

Winter Highlights:

- Hosted the Winter Program on February 23rd as both a social event and informational session. The Honorable Robert Latta of the Ohio House of Representatives encouraged the group to continue supporting the program. We were given a pictorial look at Lake Erie by Ian Adams. Joe Conroy and Kristin Stanford provided an overview of the new Research Experience for Undergraduates (REU) program at Stone Lab.
- The silent auction that accompanied the Winter Program raised \$2185.

Spring Highlights:

- Spring work weekend (April 28-30).
- State Science Day- 7 Scholarships were awarded.
- Fortner Teacher Endowment to support teachers taking classes at the Lab completed.
- *Fish Lake Erie* license plates available for purchase from BMV.

Summer Highlights:

- Co-sponsored the 2006 Guest Lecture series at Stone Lab.
- Co-hosted the 16th State Legislature/Congressional Day event (July 14) to promote Lake Erie and Stone Lab to Ohio's elected officials.
- 9 REU students supported by FOSL endowments.
- Wall of Instructors on 3rd floor of classroom building updated.
- TV with DVD/VCR installed in Harborview common area.
- 1st donor dinner for local Lake Erie Island area donors held at Stone Lab.
- Creation of Tuition Reduction Endowment for students attending Stone Lab.
- 25th Anniversary Celebration of the Friends of Stone Lab begins.

Director's Report—2005-06

Jeffrey M. Reutter, Ph.D., Director

Franz Theodore Stone Laboratory, Ohio's Lake Erie laboratory, is this nation's oldest freshwater biological field station and the North Coast Campus of The Ohio State University. Stone Laboratory is part of Ohio Sea Grant and serves as the research, education, and outreach facility for the Program and the shared research facility of the Great Lakes Aquatic Ecosystem Research Consortium (GLAERC), a consortium of 12 of Ohio's best colleges and universities. Originally called the "Lake Laboratory," the Laboratory began when a second floor was built on the state fish hatchery in Sandusky in 1895. In 1929, the Laboratory moved to its current location on the 6.5-acre Gibraltar Island at Put-in-Bay. Each summer, Ohio Sea Grant offers outstanding college courses taught by some of the best faculty in the country at the Laboratory. We offer courses specifically for teachers, graduate students and upper-level undergraduates, and introductory courses for college freshmen and sophomores and superior high school students. In this way, high school students can get college credit while still in high school by taking courses at Stone Laboratory. Ohio Sea Grant offers a spring and fall aquatic workshop/field trip/conference program at the Laboratory that attracts 145-180 groups and 5,300 – 5,800 participants annually. Research goes on year-round at the Laboratory.

Vision for the Future. Our vision is to be universally recognized as the premier freshwater education and research facility in the country. Our education and research programs will be unsurpassed. Our education programs will be models for science education in this country. Our research will solve Lake Erie environmental problems and enhance the value of the Lake.

Mission. The mission of the Franz Theodore Stone Laboratory is to serve The Ohio State University, the Ohio Sea Grant College Program, the State of Ohio, and the people of Ohio as their research, education, and outreach facility on Lake Erie. We must enhance the value of, and improve the management of, our marine and coastal resources through the education, research, and outreach programs conducted at the Laboratory. The Laboratory's programs should address the needs of, and create opportunities for, the following audiences: students in grades 4-12, college undergraduate and graduate students, K-12 teachers, research scientists, decision-makers and elected officials, technical staff in state and federal agencies, and the general public. Within this mission we have several goals:

- 1) Improve the quality of science education in Ohio by creating high-quality, hands-on science education opportunities for students in grade 4 through adults;
- 2) Create opportunities for undergraduate and graduate research training;
- 3) Create special educational opportunities for high school students and teachers;
- 4) Foster more informed decision-making through education and training programs for decision-makers and elected officials; and,

- 5) Encourage and support research on critical issues and problems facing Lake Erie, the Great Lakes, and the environment, providing the science behind more informed management decisions.

Participating Institutions. At Stone Laboratory, the faculty we have hired to teach our courses have come from 11-15 different colleges and universities annually since 2000, and the college students taking these courses have come from 12-22 colleges and universities annually. Furthermore, since 1990, our students have come from 99 different colleges and universities.

Students Supported. From 2000-2006, approximately 1,300 students participated in our college level courses at Stone Laboratory and approximately 150 graduate and undergraduate students were supported on Sea Grant projects.

Education Opportunities at Stone Laboratory. We offer approximately 25 courses for college credit at Stone Laboratory each summer. These courses include upper level, 5-week courses, 1-week introductory courses (superior high school students can participate in these courses and receive college credit while still in high school), and 1-week courses for teachers. During the spring and fall we offer a workshop/field trip/conference program for grade 4 through adults, including programs for senior citizens. Since 1990 our summer students have come from 99 different colleges and universities and 341 high schools with an average summer enrollment of approximately 200 students. From 2000-2006, our workshop program has attracted over 1100 groups and over 38,000 participants. Evaluations show that: 1) our courses are far better than courses taken on the students' main campuses, 2) teachers use the information they learn at Stone Laboratory in their own school systems, and 3) middle school and high school students who participate in our field trips/workshops have a long-term attitudinal change in their opinion and enjoyment of science and environmental issues.

Scholarships. With the assistance of the Friends of Stone Laboratory, our private sector advisory committees, and many private donors, we were successful in raising enough money to award scholarships to 186 college students (29 in 2006) and 108 high school students (10 in 2006) taking courses at Stone Laboratory from 2000-2006. We also evaluated approximately 140 projects and awarded 346 scholarships (7 in 2006) to outstanding high school students participating in State Science Day supported by the Ohio Academy of Science. Together, these scholarships were valued at \$112,104 (\$16,555 in 2006).

REUs. The Friends of Stone Laboratory created the Thomas H. Langlois Research Endowment in 1986 with the assistance of the Langlois family. The John L. Crites Research Endowment and the Franz T. Stone Research Endowment were created in 2002. These endowments have a combined value in excess of \$535,000, and approximately \$500,000 was added since 2000. In 2005 we created a new Research Experience for Undergraduates (REU) program at the Laboratory patterned loosely after NSF's REU program. The majority of our upper-level, 5-credit hour courses are taught from 8:00-4:00 every other day (M, W, F or T, Th, S) for 4.5 weeks. For the new REU program, we

arranged for students to take one of our upper level courses and to participate on research projects on their three “off-days.” They each received three hours of independent study credit for this research experience, and their tuition for eight hours and their room and board at the Laboratory were paid. Each student was allowed to choose the course they wanted to take and the research experience they desired: “fisheries research” working on smallmouth bass and round goby interactions, “herpetology research” working on the endangered Lake Erie water snake and fox snakes, or “limnology research” working on the “Dead Zone.” A total of 15 REUs valued at \$49,006 were awarded to students from as far away as Arizona in 2005. In 2006, a total of \$26,788 was awarded to 9 students. This is a tremendously successful program and we are actively seeking ways to increase donations to these endowments.

COSEE for the Great Lakes. The Great Lakes region was unsuccessful in its first bid to receive funding from NSF for a COSEE program. As we prepared to respond to the latest RFP from NSF, Dr. Reutter brought the Great Lakes Sea Grant Directors together in a meeting at Stone Laboratory in September 2004 and convinced them to undertake the following strategy in developing the next regional proposal: 1) the proposal should involve all seven Sea Grant programs in the Great Lakes Network, 2) there should be something in the proposal for every program although every program would not necessarily share equally, 3) the proposal should be led by our Sea Grant education coordinators/specialists and the Principal Investigator should be the best person in the region (most respected by NSF). The other directors agreed and we agreed to ask Dr. Rosanne Fortner to lead the effort. Dr. Fortner then put together her education team with participants from every program. Dr. Reutter then convinced the other directors to provide matching funds for their investigators to participate in the program with teachers. The 5-year, \$2.5 million proposal was approved by NSF and NOAA (joint funding).

Teacher Fellowships and Scholarships. In 2006, with funding from Ohio Sea Grant Dr. Rosanne Fortner was able to award 5 full-ride fellowships to teachers taking up to 9 hours of courses at Stone Lab. Dr. Fortner was also successful in arranging for the USEPA’s research vessel, the 180-ft *Lake Guardian*, to take 16 teachers from around the region (including 2 from Stone Laboratory) on a special 1-week ship-board course.

Fund Raising

Grants. Based on the amount of federal funds we get from NOAA Sea Grant, we are one of the smaller programs. Since our last PAT evaluation in 2000, we have focused on increasing the diversity and size of our revenue sources. We have been very successful in getting new grants: Sea Grant Fisheries Extension, \$450,000 over five years; NOAA equipment and facilities for Stone Lab, \$348,000; Clean Marinas Program, \$200,000; NSF Biocomplexity Initiative, \$1.4 million over four years; NSF Contaminant Cleanup, \$400,000; eight Knauss and Great Lakes Commission Fellowships; the Great Lakes Regional Research and Information Network (GLRRIN), \$400,000; and many others.

Endowment Development and Growth. We are most pleased with the growth of our endowments, as we have added 10 endowments since 1999 valued at more than \$700,000.

The program now has 16 endowments and the total value of our endowments exceeds \$1.1 million. As endowments, we are able to spend a portion of the income they generate each year. As a result, they will last forever and continue to grow in value. To review, in 1999 we added two endowments held at the Sandusky/Erie County Community Foundation to support our education programs at Stone Laboratory and our education efforts for elected officials and decision-makers. Jack Waldock, former Chair of the Director's Advisory Council and our Northwest Ohio Advisory Committee made the initial donations to the endowments, which were matched by gifts from the Mott Foundation and the Great Lakes Protection Fund.

In 2002, the John L. Crites Research Endowment and the Franz T. Stone Research Endowment were formed (combined value approximately \$500,000). Dr. Crites is the retired Associate Director of the Laboratory and Chair of the Zoology Department at Ohio State. Franz Stone was the son of Julius Stone who donated Gibraltar Island to Ohio State. Among other things, these endowments are supporting the REU Program and the Visiting Scientist Program at Stone Laboratory.

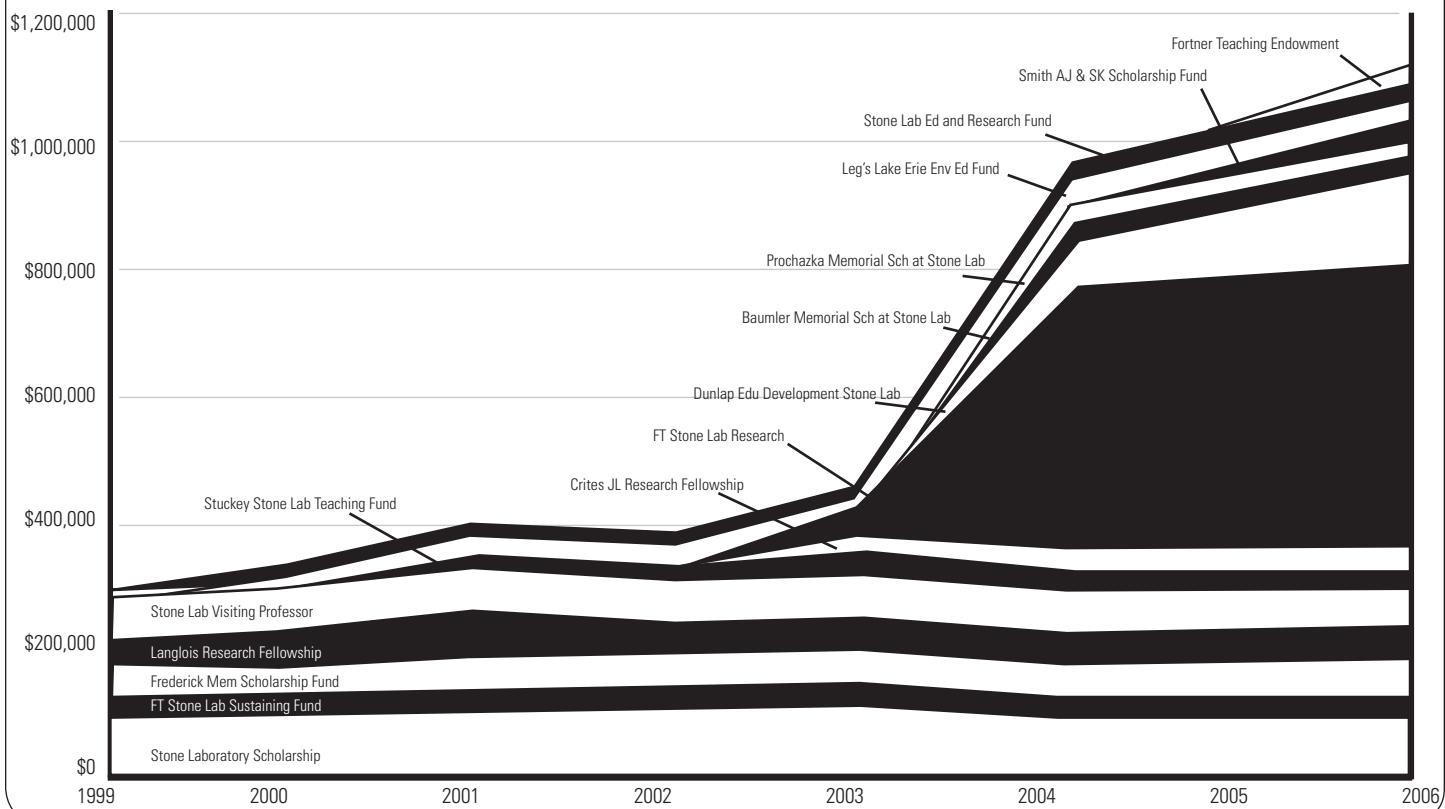
In 2004, we formed the John H. Dunlap Education and Development Fund, the Spark Baumler Memorial Scholarship Fund, the Kelly Prochazka Memorial Scholarship Fund, and the Jackson and Sally Smith Scholarship Fund. John Dunlap was the Director of the Research Foundation at Ohio State and the father of Shirley Bowser, a former member of the Ohio State Board of Trustees. Shirley and her husband, Cliff, created this endowment with help from the Kellogg Foundation, the Columbus Foundation, FOSL, and the Leigh Perkins Family Trust. In addition to education and outreach support, this is the first endowment that allows us also to support development or fund-raising activities. Bill "Spark" Baumler was an active boater and angler and a member of our North Central Sea Grant Advisory Committee. Kelly Prochazka first encountered Stone Laboratory as a middle school student on a field trip. She then took courses at the Laboratory following her sophomore and junior years of high school. She died unexpectedly during her senior year. Based on the impact the Stone Laboratory experience had on her life, her parents, Charlene and Bill, created this endowment with the help of FOSL. Charlene is the current President of FOSL. Jackson and Sally Smith are avid boaters on Lake Erie who want to help the program and the development of the next generation of resource managers.

In 2006, with the help of the FOSL, Rosanne and Richard Fortner, and family, were successful in creating the Fortner Teacher Endowment to support scholarships for teachers taking courses at Stone Lab. Dr. Reutter is continuing to work to enhance private funding with tremendous support from the University, but the real credit goes to the Friends of Stone Laboratory (FOSL) and the members of our Sea Grant Advisory Committees. One of our current areas of emphasis is the creation of the "Stone Laboratory Tuition Reduction Fund" to reduce tuition costs for all students attending the Laboratory.

“Fish Lake Erie” License Plate. The almost complete collapse of the state’s economy has made it impossible to achieve our goal of increasing our state line item to \$1.2 million—our goal in 2000. However, while our budget has fallen, we are still in the state budget and still have many supporters within the Legislature. This was never more evident than spring 2005 when the Legislature passed a bill creating a new license plate for Ohio with the slogan “Fish Lake Erie” on the bottom. Proceeds from the sale of this plate (\$15/plate) will go to Ohio Sea Grant and Stone Laboratory. With the help of the FOSL and the Ohio Sea Grant Advisory Committees, we were successful in getting over 1000 signatures on petitions to create the license plate. These plates are now available for purchase.

Endowment values (August 31 Equity Reports)

Fund	Description	1999	2000	2001	2002	2003	2004	2005	2006
607012	Stone Laboratory Scholarship (Established Sept. 2, 1983)	\$99,731	\$104,029	\$112,524	\$115,349	\$117,373	\$99,255	\$100,735	\$101,042
607015	FT Stone Lab Sustaining Fund (Established Dec. 8, 1983)	\$43,766	\$44,361	\$45,046	\$46,016	\$46,601	\$47,651	\$50,401	\$50,968
602290	Frederick Memorial Sch Fund (Established April 4, 1986)	\$30,616	\$32,524	\$45,701	\$45,786	\$45,911	\$45,986	\$46,186	\$46,236
603930	Langlois Research Fellowship (Established Dec. 5, 1986)	\$33,716	\$39,148	\$46,638	\$34,896	\$40,146	\$40,271	\$40,346	\$41,596
607014	Stone Lab Visiting Professor (Established Sept. 7, 1987)	\$45,669	\$45,669	\$45,719	\$45,719	\$45,719	\$45,779	\$45,871	\$45,871
605406	Sea Grant Endowment (Established Feb. 6, 1987)	\$18,312	\$18,822	\$19,472	\$20,202	\$20,742	\$21,552	\$21,951	\$23,486
	Leg's Lake Erie Env Ed Fund (Established July 1, 1999)	—	\$9,508	\$33,330	\$29,262	\$33,468	\$35,308	\$36,388	\$36,388
	Stone Lab Ed and Research Fund (Established November 30, 1999)	—	\$14,431	\$13,358	\$11,533	\$13,075	\$13,787	\$14,210	\$14,210
607052	Stuckey Stone Lab Teaching Fund (Established Feb. 2, 1996)	—	—	\$16,455	\$16,905	\$17,325	\$18,100	\$18,605	\$18,954
601510	Crites JL Research Fellowship (Established Sept. 6, 2002)	—	—	—	—	\$30,815	\$33,757	\$39,617	\$40,817
602289	FT Stone Lab Research (Established Sept. 6, 2002)	—	—	—	—	\$67,901	\$458,555	\$459,934	\$460,184
641860	Dunlap Edu Development Stone Lab (Established Feb. 6, 2004)	—	—	—	—	—	\$54,692	\$130,343	\$131,043
600389	Baumler Memorial Sch at Stone Lab (Established March 5, 2004)	—	—	—	—	—	\$25,000	\$25,170	\$25,420
605928	Prochazka Memorial Sch at Stone Lab (Established March 5, 2004)	—	—	—	—	—	\$25,025	\$25,665	\$25,875
646690	Smith AJ & SK Scholarship Fund (Established Nov. 5, 2004)	—	—	—	—	—	—	\$25,100	\$25,100
480276	Fortner Teacher Endowment (Established Sept. 8, 2006)	—	—	—	—	—	—	—	\$25,175
	Total Equity	\$271,810	\$308,493	\$378,243	\$365,669	\$479,076	\$964,719	\$1,080,522	\$1,112,365
	Percentage change	—	13.50%	22.61%	-3.32%	31.01%	101.37%	12.00%	2.95%



FOSL Budget
September 2005-August 2006
August 31, 2006

	<u>Budget</u>	<u>To Date</u>	<u>Note(s)</u>
<u>Newsletter</u>			
FOSL FY 2006	\$4,000.00	\$2,612.43	FOSL pays 58.3% of total cost
Total	\$4,000.00	\$2,612.43	
<u>Open House (September 10, 2005)</u>			
Meals	\$1,380.00	\$97.00	
Housing	\$440.00	\$0.00	
Transportation	\$0.00	\$185.50	
less Housing & food payments received	\$0.00	\$0.00	
less Donations	\$0.00	\$0.00	
Total	\$1,820.00	\$282.50	
<u>Winter Program (February 22, 2006)</u>			
Food	\$0.00	\$0.00	
Room rental	\$300.00	\$355.50	
Printing, supplies	\$100.00	\$63.99	
Postage	\$300.00	\$148.73	
less Donations	\$0.00	\$0.00	
less Silent Auction proceeds	\$0.00	\$0.00	
Total	\$700.00	\$568.22	
<u>Work Weekend (April 29, 2006)</u>			
Meals	\$142.50	\$261.29	
Housing	\$210.00	\$0.00	
Miscellaneous	\$50.00	\$0.00	
Transportation	\$150.00	\$40.00	
Total	\$552.50	\$301.29	
<u>Fund Raising</u>			
Printing, supplies	\$400.00	\$0.00	
Postage	\$1,200.00	\$397.40	
Miscellaneous	\$100.00	\$0.00	
Total	\$1,700.00	\$397.40	
<u>Miscellaneous</u>			
Merchandise	\$0.00	\$1,184.99	Expense greater than sales
Miscellaneous	\$0.00	\$1,021.99	disp. cameras, misc. supplies, FOSL pizza
Student Employees	\$5,000.00	\$0.00	
Total	\$5,000.00	\$2,206.98	
<u>Donations</u>			
Donations to FOSL General Fund	\$0.00	(\$8,492.39)	Includes \$3,091 from 2005 Winter Lecture Income
Total	\$0.00	(\$8,492.39)	deposited 9-27-05
<u>Transfers</u>			
Chef Art Endowment	\$0.00	\$0.00	We've committed to <i>match</i> funds up to \$6,000
Fortner Endowment	\$0.00	\$7,083.00	We've committed to <i>match</i> funds up to \$8,333
Total	\$0.00	\$7,083.00	
Total FY06 Expenses	\$13,772.50	\$11,244.84	
less FY06 Revenue	\$0.00	(\$6,285.41)	
Expenses greater than revenues		4,959.43	
FY05 Carryover		\$9,389.42	
FOSL FY06 Ending Balance		14,348.85	
<i>less Proposed</i> carryover for FY7		6,000.00	
Available Discretionary Funds FY06		<u>8,348.85</u>	

Annual Meeting FOSL
Waldock Gazebo
Sept. 10, 2005

President Char Prochazka called the meeting to order, welcoming everyone to this year's Open House. The year 2004-05 was very successful. Last years Open House was probably the most successful with 1300 people attending and \$1200 being raised in sales and donations. Winter Program silent auction was the best so far, raising \$2700. Lydia Bailey helped get an E-giving program set up with the website, making it easier for people to donate. Completed an aspect started by Mike Heniken as our endowments reached \$1 million in value. Also, by the Winter Program we had completed the Dunlap endowment.

Rosanne Fortner is retiring and is starting an endowment for teacher scholarships. Rosanne has committed \$10,000. Char suggests we commit to giving \$1 for every \$2 given by Rosanne; this would commit us to \$8333.33 total. Karen Jennings moved to do so up to the level to start the endowment, Lydia Bailey second. Carried.

Jeff had all of us tell our names and when we started our association with the lab. We had some competition for exactly who is the FOSL Fossil and enjoyed hearing all of the permanent love stories begun at Stone Lab. At least 3 couples present met at the lab.

Jeff had some five year stats for Stone Lab. 11-15 different colleges for professors, over 11,000 students, over 105 research projects. In 2004-2005 we have had a 23% increase in student enrollment. Value of scholarships awarded is over \$95,000. Stone Lab initiated the REU program lead by Kristen Stanford, Chris Winslow, Matt Thomas, Doug Kane, etc. Jeff is very pleased about matching Rosanne's gift. Rosanne has received a grant of \$2.5 mil. There were seven new endowments since 2000. Jeff gave a verbal pat on the back to John Hageman and Matt Thomas for presenting over 800 workshops to 28,000 students since 2000. He stated we need to congratulate ourselves but not become complacent; the Castle, R. V. Biolab, housing for faculty, scholarships for students, all need continued work/replacement. Jeff mentioned our biggest need is CNI – Continuing Never-ending Improvement. We need to maximize the lab with the skills that we have. We need your input on ideas of ways we could incorporate the skills and willingness of all of our members. Jeff is very pleased with the enthusiasm of our members and is eager to see where we are going in the future.

John Hageman – Lab Manager: The major problem this year was water problems – workshops in the spring were all in the research building, and students were housed on South Bass, waiting for permits and installation of new equipment. We did succeed with all of the workshops and none were cancelled. Summer has been busy with the REU program; and Wednesdays had Gibraltar Island tours all day for \$10 per person. This involved a display in one classroom, tours of the island, and the Lighthouse was open as well. We have a strong fall lined up with several conferences being planned. The lab is looking at putting in a major aeration system in some classrooms and the research building that will eliminate the need for many different aquatic pumps. Island Hop is

coming up with several projects planned on South Bass and more in the wings if there are enough people. John says we will be busy about 6 and one half days per week.

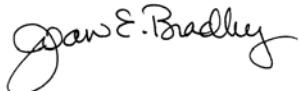
Matt Thomas – Asst. Lab Manager: REU program is an experiment in progress, mixing real research with undergrad experience. As this grows we will out grow our research facilities. New vessel, Erie Monitor, has increased the size of the area we research in as well as the amount of money brought in by research.

Char said that one of best aspects is partnership. Mike Heniken began a partnership between author Bob Adamov, his wife Kristie, and us. Partnerships such as this benefit all of us by bringing the FOSL information to those outside of FOSL. Bob has pledged a gift to FOSL and expects to give a set of books to the Winter Silent Auction. Halloween on Gibraltar is being set up, more information will be coming. We also began a Volunteer program where people can come up during the summer and do various projects. Char asked for a motion to approve the minutes from last year, Karen Jennings moved, Chris Stanton seconded. Carried. Char thanked the board members who have helped throughout the year. The slate of officers for the next year was presented. Those moving up and those new officers are as follows: President: Doug Kane, Vice President: Chris Winslow, Past President: Charlene Prochazka, Board Officers: Tom Thorne and Matt Adkins. Chris Stanton moved to accept the officers, seconded by Sam Narotski. Carried. Doug Kane stated that Char is hard to follow, but he would like to gear up in two areas: first - increase affordability of the lab for students; second - a grassroots campaign to have members go back to where they work and to drum up interest in the lab.

Lydia Bailey gave a report for the finances of the day. Overall it was a good day today, with sales and donations of \$897.16. Although attendance was down from last year we still had about 1000 visitors to the Lab and Lighthouse.

Meeting Adjourned.

Respectively submitted,



Joan E. Bradley, secretary