



## Ohio Sea Grant College Program and Stone Laboratory

Dr. Jeffrey M. Reutter  
Director, Ohio Sea Grant & Stone Lab



## Jeffrey M. Reutter, Ph.D., Director

- 1895—F.T. Stone Laboratory
- 1970—Center for Lake Erie Area Research (CLEAR)
- 1978—Ohio Sea Grant College Program
- 1992—Great Lakes Aquatic Ecosystem Research Consortium (GLAERC)

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## What is Ohio Sea Grant?

- Part of National Sea Grant College Program in NOAA
- 32 programs—every coastal state
- Partnership of:
  - Government
  - Academia
  - Private Sector
- Focus on 3 E's:
  - Environment
  - Economy
  - Education
- Accomplish through:
  - Research
  - Education
  - Outreach

## What is Stone Lab?

- Oldest freshwater field station in the nation
- Ohio's Lake Erie Lab since 1895
- Island campus of OSU on Gibraltar Island, Lake Erie
- Research, education, and outreach laboratory for Ohio Sea Grant



Stone Laboratory: Ohio's Lake Erie Laboratory  
Since 1895



Research Building with  
AVC in Background



## Research Vessels



## Sea Grant and Stone Lab

- Research, education (k-gray), outreach to public
- Based at OSU, but involve all Ohio colleges
- Focusing Ohio's universities on real-world problem solving
- Stone Lab—20 courses, training for private sector and agency managers, visited by 20,000 people/yr
- Website—10 million hits/yr
- Leverage over \$16/state dollar invested in the program
- 6 Extension specialists
- Biennial RFP for Research open now

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## Sea Grant and Stone Lab: Since 1978

- 500+ Sea Grant Projects
  - 500+ grad and undergrad students supported
  - 290+ principal investigators at over 20 colleges and universities
- FOSL over 1300 scholarships at Stone Lab
- 82 REUs

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## Improving Science Education in Ohio: Stone Laboratory Story

- Education for all ages
  - Field trips grades 4-adult
  - Intro courses open to superior HS students
  - Upper level courses for grad students
  - Teacher courses
- Since 1990:
  - Students from
  - 111 colleges
  - 366 high schools

## Aquatic Science Field Trips/Workshops

- 200+ groups annually
- Grades 4 -adult; 1 or 2-day
- 8,000 people annually
- Program includes
  - Science cruise on vessel
  - Bird/Plant/Insect hike
  - Fish Dissection in Lab
  - Limnology Lab



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## Trawling for Fish



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## Examining Plankton Sample



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Stone Laboratory: Ohio State's Island Campus

## Upper Level Courses

- One 5-week term
- 4 credit hours/course
- Classes M-W-F or T-R-S



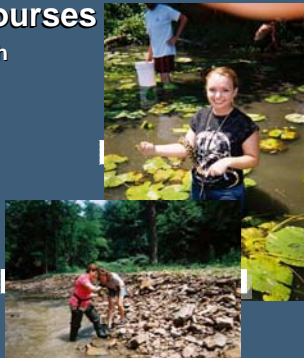
Ecology  
Evolution  
Field Zoology  
Ichthyology  
Aquat Ecosystems—Ecology of  
Inland waters  
(Limnology)

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Stone Laboratory: Ohio State's Island Campus

## Introductory Courses

- 1-week Sunday through Saturday, 2 credits
- Sport Fishing
- Intro Aquat Bio
- Intro Oceanography
- Intro Local Plants
- Intro Insect Bio
- Ecol & Cons of Birds



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Stone Laboratory: Ohio State's Island Campus

## 1-week Courses for College Students & Teachers

- Geologic Setting
- Spider Biology
- Field Ecology
- Oceanography
- Herpetology
- Local Flora
- Climate Change Education Workshop
- Climate & Sustainability
- Larval Fish ID



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## Workshops

- Algal identification
- NOAA Science Literacy
- Dealing with Cyanobacteria, Algal Toxins and Taste and Odor Compounds
- Outdoor Photography
- Lake Erie Sport Fishing
- Fish-Sampling Techniques



## Opportunities to Visit Stone Lab

- AVC: Wednesday through Saturday
- South Bass Island Lighthouse: Mondays and Tuesdays
- Gibraltar Island
  - Wednesdays 11:00-1:00
  - Thursday evening Guest Lecture Series
  - Winter Program, 30 Jan 2013 (Columbus)
  - Work Weekend, April 2013
  - State Science Day, St. John's Arena, May 2013
  - Open House Saturday, September
  - Buckeye Island Hop, Early October 2013

## New Solar Pavilion



## Solar Thermal on Dining Hall Roof



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Ohio Sea Grant and  
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