STONELAB
THE OHIO STATE UNIVERSITY’S ISLAND CAMPUS ON LAKE ERIE

stonelab.osu.edu

WILL IT BE YOU?

Explore Science + Discover Yourself
Two and a half years. That’s how long it takes for a single drop of water entering Lake Erie from the Detroit River to make its way out to Lake Ontario by way of Niagara Falls. That’s when that drop of water, completely unnoticed as it entered the lake, makes a huge splash.

That’s just how little time it could take for your whole life to change after experiencing Stone Laboratory, The Ohio State University’s island campus on Lake Erie.

For more than 100 years, Stone Lab has been making its mark as a resource for freshwater biology research, science education and outreach. As the research station for the Ohio Sea Grant College Program, the lab is a base for professional scientists from all over the Midwest as they work to solve the most pressing issues facing the Great Lakes, such as invasive species and toxic algal blooms.

Stone Lab’s Gibraltar Island, just off the coast of South Bass Island in Lake Erie, is a full-service campus with dormitories, a dining hall, classrooms, a library and a computer lab. In addition to hosting college-credit courses and resume-building workshops, Stone Lab offers field trips, conference and event center space and public tours of Gibraltar Island, Aquatic Visitors Center and South Bass Island Lighthouse, putting Lake Erie science and history within anyone’s grasp.
Thousands of Stone Lab alumni are making waves all over the world in biology, environmental sciences and STEM (science, technology, engineering and math) education.

Someone who takes a 2019 Stone Lab class will make an impact in the world. Will it be you?

Explore Science + Discover Yourself
SMALL ISLAND
BIG IMPACT
Stone Lab is located on Gibraltar Island, just north of South Bass Island’s Put-in-Bay. Gibraltar is named for its resemblance to the famous British fortress at the western end of the Mediterranean Sea. Though it’s no more than a few hundred yards from South Bass, the 6-acre island feels like a whole other world.

**Gibraltar Island**

1. **Bayview Office**
2. **Peach Point Research Laboratory:** Houses the Water Quality Laboratory and holding tanks for aquatic organisms.
3. **Aquatic Visitors Center:** Open June through August, this former fish hatchery has educational displays, aquaria filled with fish and a public fishing dock.
4. **Peach Point and Sycamore Cottage:** Staff and faculty housing.
5. **Glacial Grooves:** Deep striations, remnants of the last great North American glacier more than 10,000 years ago.
6. **Solar Pavilion:** Forty-four 240-watt solar panels provide energy and shade a few picnic tables below.
7. **Stone Laboratory:** This is the main instruction building on the island and contains laboratories, classrooms, office space, a meeting room for special lectures, a library, a computer lab and the Stone Lab bookstore. Forty solar panels were added to the roof.
8. **Main Dock**
9. **Dining Hall:** Solar thermal installed on the roof provides nearly all the hot water needed for the Dining Hall.
10. **Gibraltar House:** Staff housing
11. **Research Buoy:** Collects data including water temperature, pH and algae pigment and transmits it live to the Stone Lab website.
12. **Stone Cottage:** Faculty housing
13. **Harborview House:** Student housing
14. **Barney Cottage:** Additional housing
15. **Cooke Castle:** Built in 1865 by Jay Cooke, a Civil War financier, this 15-room Victorian home is currently undergoing renovations.
16. **Swimming Beach**
Introductory Courses

GAIN NEW SKILLS
“The professors are great. The classes are informative and immersive, and it’s simply a unique experience that you won’t find anywhere else.”

RACHEL EWALD // biology + animal science major, University of Findlay

Introductory-level courses at Stone Lab and our partnering field station on Kelleys Island give you the chance to get your feet wet – literally.

High school juniors and seniors can earn college credit to get a head start on a degree, and college students can earn general education credits to accelerate their education.

You’ll spend most of your time in the field, not a classroom – while earning two semester credits in one week as you study biology, oceanography, ecology, plants, birds, insects or even sport fishing. Field studies expand career choices for students with any major.

For details, visit go.osu.edu/intro

Introductory Courses

**2 CREDITS**

Monday-Sunday. Open to advanced high school students and current college students.

**June 3-9**

- EEOB 1930 Intro to Biological Studies – Aquatic Biology
- KNSFHP 1140.05 Lake Erie Sport Fishing
- EARTHSC 1107 Field Based Introduction to Oceanography

**June 10–16**

- EEOB 1930 Intro to Biological Studies – Aquatic Biology

**July 8–14**

- EEOB 1910 Intro to Biological Studies – Local Plants*

**July 29–August 4**

- EEOB 1930 Intro to Biological Studies – Aquatic Biology
- ENR 2360 Ecology and Conservation of Birds
- ENTMLGY 1260 Intro Insect Field Biology

*Class will be held on Kelleys Island

Need help paying for your class?
See page 14 for info on scholarships.
GET A NEW PERSPECTIVE
“It’s an experience unlike any other. There’s no other way to describe it. The friendships, the opportunities, the things you get to do on Lake Erie, it’s awesome.”
LEAH MARTIN // zoology major, The Ohio State University

Ready to discover science outside the classroom? We offer high-impact courses that give you the skills you need for a future in your chosen career.

Each course is an in-depth experience you’ll share with a handful of classmates as dedicated to the subject as you are.

Ranging from one to six weeks, you’ll be able to earn credits and take required classes for your major while practicing scientific techniques in the field. At Stone Lab, nature is your classroom and Lake Erie is your living laboratory.

**Upper Level Courses**

Open to college students studying biological sciences, education and natural resources, as well as science teachers.

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<th>SIX-WEEK COURSES (4 CREDITS)</th>
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<td><strong>June 17–July 26</strong></td>
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<td>EEOB 3310  Evolution</td>
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<td>EEOB 3410  Ecology</td>
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<td>EEOB 5420  Aquatic Ecosystems – Ecology of Inland Waters</td>
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<td><strong>June 3–28</strong></td>
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<td>ENR 4611  Environmental Interpretation and Visitor Services</td>
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<th>ONE-WEEK COURSES (2 CREDITS)</th>
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<td><strong>May 19–25</strong></td>
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<td>EEOB 5910  Field Herpetology</td>
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<td>ENR 3280  Water Quality Management</td>
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<td><strong>July 1–26</strong></td>
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<td>ENR 3700  Intro to Spatial Information for Environment and Natural Resources</td>
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<td>ENR 5350.01  Taxonomy and Behavior of Aquatic Invertebrates</td>
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<td><strong>July 14</strong></td>
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<td>EEOB 5970  Larval Fish ID</td>
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Want to come to Stone Lab? We want to help. Scholarship details are on page 14.
DIVE INTO RESEARCH

Our Research Experience for Undergraduates Scholarship Program offers an incomparable chance to gain experience as a professional researcher at Stone Lab.
**Five Reasons to Apply for a Stone Lab REU**

- **Participate in hands-on research**
  In the lab or in the field, you’re the one observing conditions, collecting data and interpreting your findings.

- **Learn from world-class scientists**
  The Stone Lab REU supervisors are at the top of their fields. Learn how to use scientific equipment, as well as how to collect and analyze important data, from the pros.

- **Make the most of your time**
  REUs get free in-state tuition, room and meals. The program runs concurrently with our six-week term and is paired with one of the six-week upper level courses.

- **Present your findings**
  At the end of the term, you’ll present your research. Many REUs have also written up their results and presented at conferences. Some have even been published in peer-reviewed journals.

- **Stand out from the crowd**
  Get experience that looks great on a graduate school application or your resume.

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**2019 REU TOPICS**

- Botany
- Ichthyology
- Ornithology
- Limnology

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**Under the guidance of top scientists, our REU students carry out their own research projects from start to finish, including specimen collection, data analysis and a final presentation.**

Stone Lab REU alumni have gone on to master’s and PhD programs at colleges across the country and are working scientists in a host of fields.

**Application Deadline**

**FEB. 4, 2019**

For details, visit [go.osu.edu/reu](http://go.osu.edu/reu)
LEAD THE NEXT GENERATION
Get up-to-date education techniques and information on Great Lakes issues with our courses designed specifically for teachers, informal educators and education majors with a rank of junior or above.

Educators are eligible for tuition assistance and are encouraged to submit a scholarship application with their course application.

**TEACHERS SAY...**

“I really needed this to recharge for my own teaching. It is one of the few workshops I’ve taken where I feel I have been treated as a professional who wants to really grow.”

“Stone Lab is different from any other professional development I’ve done and it was exactly what I needed. I was feeling burnt out - from grading, planning, and state tests. Stone Lab reminded me how learning/teaching science can be fun.”

“Having the opportunity to be on an island and learn about the cutting edge science taking place at Stone Lab gave me a very valuable perspective that I will never forget.”

**EDUCATOR SCHOLARSHIPS**

A variety of scholarships are available for those taking Stone Lab education courses. Educators are encouraged to apply for Alphyl and Center for Great Lakes Literacy Scholarships. Ottawa County, Ohio residents may also be eligible for a special scholarship.

For details about scholarships, visit go.osu.edu/slscholarships

**Educator Course**

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<td>Courses can be taken for credit or as non-credit workshops.</td>
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**July 20–26**

EARTHSC 5189.05  
Field Geology for Educators: Geologic Setting of Lake Erie*

**Educator Workshop**

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Enhancing Earth Science Education with Educational Technology*  
*Class will be held on Kelleys Island
Scholarships & Jobs

IT’S POSSIBLE

Because the opportunities at Stone Lab are so valuable, our network of alumni, donors and partners give generously to allow as many students as possible to experience a Stone Lab education.

Each year we award more than 40 scholarships to those with superior academic records and financial need. Anyone taking a for-credit class (and some workshops) is eligible to apply. Last year high school students were awarded more than $600 on average and undergraduate students were awarded more than $800 on average.

You’ll indicate your interest in scholarships as you complete the online Stone Lab application. Deadlines vary, but most are in early to mid-March. Initial recipients will be notified in early April.

Part-Time Jobs

Taking a four- or six-week course? Consider applying for a part-time position as a student lab assistant to cover housing and meal costs. On the days you aren’t in class, you’ll work with researchers, help run the Stone Lab bookstore, cook and serve meals in the dining hall or assist with programming at the Aquatic Visitors Center and South Bass Island Lighthouse.

Applications for student positions must be received by March 1, 2019. Interviews will be held in early March at the Stone Lab Columbus office.

For details, visit go.osu.edu/studentjobs
Tuition is charged per credit hour and is based on The Ohio State University tuition. Most courses charge an additional lab fee per course. All costs are subject to change. For fees, room and meal costs and updated information, go.osu.edu/costs.

FIND US ON SOCIAL MEDIA

Facebook: stonelaboratory
Twitter: @stonelab
LinkedIn: stonelab
Instagram: stonelab
Workshops + Field Trips

NEVER STOP GROWING

Not all Stone Lab students are in college. Many are working professionals or those hoping to develop resume-building skills.

Workshop facilitators include professionals from state agencies such as the Ohio Department of Natural Resources Division of Wildlife and the Ohio Environmental Protection Agency and the activities are specifically designed to help job seekers get a basic knowledge of common field techniques.

In addition to the offerings listed here, nearly any of our for-credit courses can be taken as a non-credit workshop with permission of the instructor.

StoneLab Workshops

May 17–19
Lake Erie Sport Fishing

May 22–24
Intro to Bird ID and Banding*

June 20–22
Enhancing Earth Science Education with Educational Technology*

August 5–6
Algae Identification

August 7–8
Dealing with Cyanobacteria, Algal Toxins and Taste & Odor Compounds

August 13–15
Lake Erie Island Wetland Plant Field Identification and VIBI*

August 26–27
Planning to Prevent the Spread of Aquatic Invasive Species: AIS/HACCP

September 21–22
Fish-Sampling Techniques

*Class will be held on Kelleys Island

For details, visit go.osu.edu/slworkshops
Each group spends two hours aboard a Lake Erie research vessel collecting data. Afterward, they return to Gibraltar, where they dissect fish and examine the lake’s microorganisms through microscopes.

Groups can choose from up to 10 additional specialized activities to create a one-day trip lasting up to eight hours or a two-day overnight trip, including a stay in the island dormitory and meals at the Dining Hall.

HANDS-ON LEARNING

Students in grades 5-12 or groups of adults (up to 80 people) can make reservations for Lake Erie Science Field Trips in April, May, August, September and October.

FIELD TRIP ACTIVITIES:

- Invertebrate Collection Walk
- Exotic Species Slide Show
- Insect Collecting
- Island Geology Tour
- Herpetology Overview
- Ornithology Hike
- Fish Seining
- Climate Expedition
- Aquatic Visitors Center Tour

“Stone Lab reminded me how learning/teaching science can be fun. The class was full of inquiry activities that challenged me to think. I couldn’t get enough of it!”

MARY BETH HOFFMAN // teacher, Sylvania City School District

For details, visit go.osu.edu/fieldtrips
DISCOVERY STARTS HERE

Stone Lab’s position in the western basin of Lake Erie has made it an ideal spot for scientists conducting Great Lakes research for more than a century.

The lab also has several research boats:

- **R/V Gibraltar III**: A 42-foot research vessel for open-lake sampling and has an A-frame for trawling and deploying buoys.
- **M/V BioLab**: A 37-foot trap-net style vessel for near-island sampling and trawling.
- **R/V ErieMonitor**: A 25-foot research vessel ideal for SCUBA, towing underwater equipment and light water sampling.
- **R/V GS-3**: A 28-foot research vessel ideal for SCUBA with an electric winch and davit for medium-sized bottom sampling equipment.

To arrange use of the facility or equipment, contact:

Dr. Justin Chaffin
Research Coordinator
chaffin.46@osu.edu

For details, visit go.osu.edu/researchfacilities
MEET ME AT THE LAKE

Secluded meeting spaces on Gibraltar Island and at the South Bass Island Lighthouse offer spectacular views of Lake Erie. Stone Lab staff can help you incorporate field trip activities such as a sampling cruise on a research vessel, historical tours and other team-building activities.

Stone Lab can accommodate 50-75 people with a conference room that can be set in classroom, theater or U-shaped styles. We also offer indoor and outdoor reception facilities.

Dormitory-style double rooms accommodate up to 40 people for overnight stays. A full-service dining hall provides meals and breaks for guests, if desired.

The South Bass Island Lighthouse offers meeting space and reception facilities. A kitchen, living room and two porches provide comfortable living space for guests.

To book a meeting space, contact:

Kelly Dress  
419-285-1800  
dress.3@osu.edu  

Dr. Kristin Stanford  
419-285-1847  
stanford.f47@osu.edu

PRESENTATION SUPPORT INCLUDES:

› Computer and projector with audio  
› Teleconferencing/web conferencing  
› High-speed wireless internet  
› TV displays
Experience the Greatness of our Great Lake

AQUATIC VISITORS CENTER
Examine Lake Erie’s ecosystem up close, including live fish. Children under 16 can borrow gear and bait and fish for free off our dock.

go.osu.edu/aquatic

SOUTH BASS ISLAND LIGHTHOUSE
Scheduled tours are available from April through November. Lighthouse grounds are open to the public daily from dawn to dusk.

go.osu.edu/lighthouse

GIBRALTAR ISLAND TOURS
Tours are held each week for up to 70 people on a first-come, first-served basis. Groups tour the island, including Perry’s Lookout, the glacial grooves and the outside of Cooke Castle before learning more about the research being conducted at Stone Lab.

go.osu.edu/gibtours

Tours of Stone Lab facilities are available from mid-June through August. To learn more, visit go.osu.edu/tours