Back Matter
Available: Stipends Tuition Waivers

Students interested in the "Biology of Human Disease.
Join a unique graduate program at The Ohio State University which targets the following areas:

- Biochemistry
- Bioinformatics
- Cell Biology
- Developmental Biology
- Genetics
- Immunology
- Microbiology
- Molecular Biology
- Neurobiology
- Pathobiology
- Pharmacology
- Physiology
- Virology

The Integrated Biomedical Science Graduate Program is designed to prepare students to become leading biomedical scientists. Students are financially supported by an annual stipend of $19,000 plus tuition.

Visit www.ibgp.org for more information or application requirements.
Stone Laboratory is the Lake Erie research and teaching laboratory for the Ohio Sea Grant College Program. Located on the 6.5-acre Gibraltar Island in Put-in-Bay harbor, this facility is the oldest freshwater biological field station and research laboratory in the United States. Since its establishment in 1895, both students and professional biologists have conducted significant research focusing on the ecology of Lake Erie and the Great Lakes region.

Students earn college credit through classroom, laboratory, and field studies, while gaining a comprehensive background in freshwater systems and information on the unique environmental attributes of Lake Erie.

**SUMMER COURSES 2003**

*All dates will be posted on web site as they are confirmed.*

**UPPER-LEVEL COURSES**

*Designed for undergraduate and graduate students in biological sciences, education, and natural resources; professional biologists, and ecologists; and biology and general science teachers.*

Classes meet three days a week

**TERM 1 — June 22 - July 23**

- Aquatic Entomology
- Field Zoology
- Ichthyology
- Limnology

**TERM 2 — July 24 - Aug. 23**

- Fish Ecology
- Higher Aquatic Plants

**OTHER**

Classes meet daily for one week

**NEW** Field Plant Pathology (two weeks)

**NEW** Herpetology

**NEW** Nature Photography
- Waterfowl Ecology
- Ichthyoplankton Identification Workshop (one day)

**COURSES FOR EDUCATORS**

*Designed for classroom teachers, non-formal educators, and education majors with senior rank by summer 2003.*

Classes meet daily for one week

- Aquatic Environmental Science for Teachers
- Geologic Setting of Lake Erie
- Global Change Education
- Great Lakes Education Workshop
- Insect Biology for Teachers
- Ornithology for Teachers
- Principles of Oceanography for Science Teachers
- Stream Ecology for Teachers

**INTRODUCTORY COURSES**

*Open to college and select high school students.*

Classes meet daily for one week

- Aquatic Biology (offered four times)
- Field-Based Oceanography
- Insect Biology
- Local Flora
- Study of Birds

*To qualify, high school students must have completed their sophomore year, be 15 years of age or older, and have completed one course of high school biology prior to the beginning of the course.

**INFO SESSIONS AT THE OHIO STATE UNIVERSITY CAMPUS**

Detailed information about Stone Laboratory and the Summer 2003 program will be presented on the Columbus campus on the following dates, times, and locations:

- **Thursday, November 21, 2002**
  - 10:30 - 11:30 a.m.
  - Enarson Hall
  - Stone Laboratory from 6:30-7:30 p.m.

- **Tuesday, January 14, 2003**
- **Tuesday, February 4, 2003**
- **Thursday, February 20, 2003**

**Stone Laboratory**

154 W. 12th Ave.

**OHIO STATE UNIVERSITY**

Sea Grant

Ohio Sea Grant College Program

**www.sg.ohio-state.edu**

Updates on courses, instructors, and application materials.
Sea Grant College Program, Center for Lake Erie Area Research, and Great Lakes Aquatic Ecosystem Research Consortium (12 Ohio colleges). He received his B.S. and M.S. in fisheries management and Ph.D. in environmental biology from OSU. He is author of over 100 technical reports and journal articles (first 1973 OJS) and a frequent lecturer on Lake Erie, aquatic nuisance species, Great Lakes research needs, and the importance of science education. He is a regular contributor to local and national science education and communicating with non-scientists. He has also served on several committees in the Water Management Association of American Institute of Hydrology and has authored or coauthored over 30 technical reports and articles. Ohio. He has authored or coauthored member of the Ohio Academy, licensed Professional Engineer and University of Arizona in 1966. He is a went on to get a MSCE from the Ohio Northern University in 1964. The last 23 years of which he has been the Ohio district of the US Geological Survey. STEVEN HINDALL

Norman R. Fausey is a Soil Scientist employed by the USDA, Agricultural Research Service. He is the Research Leader for the Soil Drainage Research Unit located at the Ohio State University. Dr. Fausey is an active member of the Soil and Water Conservation Society, The American Society of Agricultural Engineers, the American Society of Agronomy and the Soil Science Society of America. He has served as the President of the All Ohio Chapter of SWCS, President of the Ohio Section of ASAE, and on the Board of Directors of ALASAE. He is a member of the Graduate Faculty at the Ohio State University and has served as advisor and graduate committee for numerous MS and PhD students. He is a Fellow of The Ohio Academy of Science.

RODNEY A. SHEETS, JR.

Rodney A. Sheets, Jr. currently is the ground-water specialist and a staff hydrologist for the United States Geological Survey, Water Resources Discipline, in Columbus, Ohio and has been for about 10 years. Prior to that, Rod spent time as a staff hydrologist, hydrologic technician, geologist (USGS Office of Earthquakes and Volcanoes) and water-well driller, in eastern Ohio. His current duties include participation in local, State and Federal committees and groups concerning water data and research. He has ongoing collaboration with many Ohio communities, State of Ohio hydrologists and planners, industries and universities around Ohio. He has published results of his research in such journals as Ground Water, Water Resources Research, Journal of Hydrology and the Ohio Journal of Science. He is a member of NGWA, AGU, SEG, and OAS. He has volunteered his time for classroom instruction (from grade schools to universities) and has participated in Earth Day celebrations. He also participates in the State Tree Farm System and pursues research and recreational interests in forest and wildlife management.

DOUGLAS L. SHRAKE

Douglas L. Shrake has been a Geologist at the ODNR, Division of Geological Survey in Columbus, Ohio, since the fall of 1985. He has a B.S. in Geology (Ohio University, 1983) and MS (Wright State University, 1989) degrees in Geology and passed the Professional Geologist (PG) license exam in 2000 (Florida PG #2147). He has been a member of the Ohio Academy of Science since 1989. He has regularly presented papers at Ohio Academy of Science and at geological meetings since 1987. He has produced over 400 geologic maps and authored or coauthored numerous papers and reports published by the Survey and in various geological publications. He routinely works with personnel from the USGS, OEPAs, ODOT, Ohio Historical Society, various ODNR Divisions, and staff from several Ohio colleges to document Ohio's geology. He is an Adjunct Instructor and a member of the Board of Counselors for the Department of Geological Sciences at Wright State University. He is a native of Ohio and active in his local community working with the Girl Scouts, Boy Scouts, churches, and church.

INDUSTRY-AT-LARGE

JAMES R. BAUER

James R. Bauer, the senior scientist of BAUER CERTIFIED EARTh SCIENCES, Inc., has been a member of the Ohio Academy of Science for over 40 years and a Fellow for over 12 years. He earned his B.S. in Geology and M.S. in Agronomy (Soils) from the Ohio State University. His employment history includes; soil survey for the Ohio Department of Natural Resources (1960-1971), public soils/geology consultant for Stark County, Ohio (1971-1985), and private practice (1985-Present). Mr. Bauer is a nationally certified soil scientist and geologist, Registered Geologist in Indiana and Pennsylvania, and a Registered Sanitarian in Ohio.

He is co-founder of the Association of Ohio Pedologists and a founding member of the National Society of Consulting Soil Scientists. He serves on the Board of Trustees of the Ohio Academy of Science in the capacity of At-Large Industry Representative as well as Science Fair judge on the State Level.

TRACY L. ENGLE

Tracy L. Engle was elected to the Board of Trustees in 1997 and became a life member in 1999. Mr. Engle is a Senior Watershed Scientist with URS Corporation, Inc. in Cleveland, Ohio. Currently, Mr. Engle is responsible for marketing the environmental transportation program statewide. In addition, he manages projects and conducts fieldwork to identify and delineate wetlands, inventory terrestrial flora and fauna including threatened and endangered species as well as assess impacts of proposed projects for a variety of public and private sector clients. He received a BS (Wildlife Management) from The Ohio State University in 1995 and an MS (Biological Science) from John Carroll University in 2002. Research interests include the study of wetland and waterfowl ecology and management. He is a recipient of the 1996 Paper of the Year from the Ohio Journal of Science for his article Insect Snail Flora of a Diked and an Undiked Southwestern Lake Erie Wetland, and has presented the results of this research at the Ohio Fish and Wildlife Conference. Mr. Engle remains active with the Ohio Academy of Science, The Wildlife Society, Ducks Unlimited, and as the assistant chairman of his community's Zoning Commission.

MILES FREE

Miles Free is Director of Quality and Development for Republic Engineered Products, in Fairlawn, Ohio. Miles has lead the development and integration of quality systems and the use of technology to improve quality and processes throughout Republic, including laser gauging, statistical methods, and design of experiments. Miles has taught gifted and talented science enrichment classes, judged local and district science fairs, and has visited elementary classes to give science demonstrations. Miles is an early reviewer of the Draft State Science Standards. Miles has also put on teacher in-service days on the topic of Developing Competencies for Technical Work, has presented several papers at the Academy's Annual Meetings, and is a frequent contributor to publications on a variety of technical topics. Miles received his Bachelor of Science degree from Youngstown State University in 1975. Miles received a National Academy of Sciences Teacher-Engineer Fellowship in 1994.

JOHN A. LONG

Dr. John A. Long is a partner in Long/Bater Consultants, a consulting firm based in Marysville, Ohio, that offers technical and marketing assistance to industry worldwide. Areas of specialization are in agronomy and horticulture. Dr. Long received his BS degree from the University of Idaho, MS degree from Washington State University, and PhD degree from Texas A & M University. He was on the faculty at New Mexico State University and Texas A & M University and then joined the O. M. Scott Company where he worked in agronomic and horticultural research programs from 1961 to 1990. Dr. Long formed Long/Bater Consultants after retiring from the Scott Company. He is listed on a number of Scott patents and served as president of the National Council of Commercial Plant Breeders and chairman of the Turf and Garden Committee of the Fertilizer Institute. He also was active in the American Seed Trade Association for a number of years. Dr. Long has frequently served as judge at district and state science fairs sponsored by the Ohio Academy of Science.

GERALD R. MYERS

Mr. Myers is a Vice President with the environmental consulting firm, Metcalf & Eddy in Columbus. He has 23 years of experience as an environmental management and public health consultant on projects such as the River Valley School District environmental investigations and clean up of the Coot Road industrial site in Cleveland. Mr. Myers has served on the Ohio Academy of Science, Science Policy Advisory Board for 3 years, and has been an academy member for many years. Mr. Myers and is a frequent volunteer for a number of Academy activities including representing the Academy on the Ohio Bicentennial Science and Technology Committee and sponsoring the Environmental Science and Engineering Speakers Breakfast at the Annual meeting. Mr. Myers has a BS (Conservation) and an MS (Biological) from Kent State University. Mr. Myers is a Certified Environmental Professional (CEP 131).
THE OHIO ACADEMY OF SCIENCE

Registration Form
112th Annual Meeting
April 4-5-6, 2003
Hosted by the University of Findlay
Advance registration must be received by March 15, 2003

ALL MEETING ATTENDEES MUST REGISTER: Access to sessions by name tag only. Name tag, information packet and receipt will be available at the meeting. Please return the completed registration form along with the appropriate fees to the address printed below.

STUDENTS, SPOUSES, OR RELATIVES: A special discount schedule has been approved to promote and encourage participation of undergraduates, pre-college students, non-science spouses or relatives. All students, non-science spouses, parents or relatives must register using a separate form. This registration does not include membership or meals, which must be paid separately on this form.

AFTER MARCH 15

NON-SCIENCE SPOUSE, PARENT OR RELATIVE OF FIRST AUTHOR $10 $15

*Discount Rate for students who are not first author:
(Does not include membership)
1-4 from same institution $20 $25
5-10 from same institution $15 $20
11 or more from same institution $10 $15

Please use a SEPARATE REGISTRATION FORM for each person. Copy this form as needed.

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PO Box 12519
Columbus OH 43212-0519
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Registration Fees
Please check appropriate categories. One fee covers ALL THREE DAYS. Payment must be received by March 15, 2003 to avoid higher rates. On-site registration will be accepted at the higher rate by credit card or check ONLY. First authors have pre-paid registration when submitting their abstracts and DO NOT NEED to return this form unless they need meals. First authors are already registered for the meeting.

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*See table at left for more information.

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MEALS (by preregistration)

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