1995-12

Front Matter

The Ohio Journal of Science. v95, n5 (December, 1995), 0
http://hdl.handle.net/1811/23674

Downloaded from the Knowledge Bank, The Ohio State University's institutional repository
Editorial Policy:

General: THE OHIO JOURNAL OF SCIENCE considers original contributions from members and non-members of the Academy in all fields of science. While special consideration will be given to manuscripts concerned with Ohio subject matter, other reports with scientific merit will be reviewed for publication. Submission of a manuscript is understood to mean that the work is original and unpublished, and is not being considered for publication elsewhere. All manuscripts considered for publication will be peer-reviewed. The opinions expressed by reviewers are their own, and do not represent the views of the Ohio Academy of Science or THE OHIO JOURNAL OF SCIENCE. Manuscripts and illustrations should be prepared in triplicate in accordance with current guidelines published in THE JOURNAL at least once a year, and submitted (after 1 January 1996) to:

Dr. Thomas W. Schmidlin, Editor
THE OHIO JOURNAL OF SCIENCE
Department of Geography
Kent State University
Kent, OH 44242-0001

Page Charges:
Publication of THE OHIO JOURNAL OF SCIENCE requires that authors assist in meeting publication expenses. These costs will be assessed at $70 per page for members of the Academy and $105 per page for non-members. In multi-authored papers, each author must be a member of the Academy at the time of publication to be eligible for the reduced member rate. Papers which exceed 12 printed pages may be charged full production costs. A bill for page charges will be sent to the communicating author by the Ohio Academy of Science at the time of publication.

Failure to Receive THE JOURNAL:
Any claim of failure to receive subscription issues of THE JOURNAL must be submitted to the Ohio Academy of Science within six months of date of issue of the missing number, to be recognized.

Listing Services:
THE OHIO JOURNAL OF SCIENCE is listed or abstracted in several sources including:
- Bibliography of Agriculture
- Biological Abstracts
- Chemical Abstracts
- Current Advances in Ecological Sciences
- Current Contents (Agriculture, Biology & Environmental Sciences)
- Deep Sea Research and Oceanography Abstracts
- Environment Abstracts
- Environmental Information Center
- Forest Products Abstracts
- Forestry Abstracts
- Geo Abstracts
- GEOBASE
- Geology Abstracts
- GeoRef
- Helminthological Abstracts
- Horticulture Abstracts
- Nuclear Science Abstracts
- Review of Plant Pathology
- Selected Water Resources Abstracts
- World Agricultural Economics and Rural Sociology Abstracts

FUTURE ACADEMY MEETINGS
1996 Malone College
May 3–5

Date of issue—December 1995
Typesetting—Ardella Pierce
Copyright © 1995 by The Ohio Academy of Science
Printing—Lesher Printers, Inc., Fremont, Ohio 43420 U.S.A.
EDITORIAL

ARTICLES

312 Nest Site Characteristics of Great Blue Herons (Ardea herodias) in Northeast Ohio by B. A. Carlson

316 Limnological Characterization of the Trissate Oxbow Wetland (Ohio, Indiana) by G-J. Joo and D. A. Francko

321 The Effect of Seasonal Change on the Group Size, Group Composition, and Activity Budget of White-tailed Deer, Odocoileus virginianus by V. A. Sorensen and D. H. Taylor

325 Factors Controlling the Formation of Fossiliferous Beds in the Devonian Columbus Limestone at Marblehead Quarry, Marblehead, Ohio by J. Williams

331 Effect of Sustained Hand Grip Isometric Exercise on the Response of Erythrocyte 2,3-diphosphoglycerate in Untrained Men by O. E. Odje and J. M. Ramsey

335 Smooth-billed Ani (Crotophaga ani L.), a New Species of Bird for Ohio by E. B. McLean, A. M. White, and T. O. Matson

337 Cactus Growth Changes as an Effect of Wind in Baja California Sur, Mexico by A. Ortega-Rubio, H. Romero-Schmidt, and F. Vega-Villasante

DEPARTMENTS

BOOK REVIEWS

339 The Marshes of Southwestern Lake Erie by L. W. Campbell with C. Gavin Reviewed by B. K. Andreas

339 The Secret Chain: Evolution and Ethics by M. Bradie Reviewed by R. S. Verma

340 The Extraordinary Chemistry of Ordinary Things by C. H. Snyder Reviewed by W. R. Midden

341 The Dicotyledoneae of Ohio, Part II: Linaceae through Campanulaceae by T. S. Cooperrider Reviewed by J. S. Pringle

343 Necrology

352 Officers, Committees, and Academy Representatives for 1995-96

353 Index to Volume 95

364 Table of Contents, Volume 95

INSTRUCTIONS TO AUTHORS — inside back cover

COVER PHOTO: Adult Blue Heron (Ardea herodias) wading in a northeast Ohio wetland. A. herodias nest sites in northeast Ohio were surveyed by B. Carlson (p. 312-315) to determine characteristics. (Photo provided by B. Carlson.)

The Ohio Journal of Science (ISSN 0030-0950) is published in March, April (Annual Meeting Program Abstracts Issue), June, September, and December by The Ohio Academy of Science, 1500 West Third Avenue Suite 223, Columbus, OH 43212-2817 U.S.A. 614/488-2228. The Ohio Academy of Science, 1500 West Third Avenue Suite 223, Columbus, OH 43212-2817, is a private, nonprofit corporation. Individual membership and subscription: $50. Domestic institutional subscription: $50. Foreign institutional subscriptions: $55. Single issues for Academy members and subscribers: $10; others $12. © 1995 by The Ohio Academy of Science. ALL RIGHTS RESERVED. PRINTED IN U.S.A.

POSTMASTER: Send address changes to The Ohio Journal of Science, 1500 West Third Avenue Suite 223, Columbus, OH 43212-2817 U.S.A.
F.T. STONE LABORATORY has been Ohio’s Lake Erie laboratory and freshwater biological field station since 1895. It is located on Gibraltar Island across the harbor from Put-in-Bay, on South Bass Island, which is served by regular ferry service from Catawba Island and Port Clinton.

Stone Laboratory students learn in the classroom, laboratory, and field. Introductory and educators’ courses meet daily for one week. All other courses meet three days a week for five weeks.

Stone Laboratory courses provide a comprehensive background in freshwater systems and specific information on the unique environmental attributes of Lake Erie. Courses are designed for advanced undergraduates and graduate students in biological sciences, education, and natural resources; professional biologists and ecologists; and biology and general science teachers. Introductory courses have a prerequisite of completion of a high school biology course and are available to college and select high school students.

Students enrolled at state-assisted colleges and universities may enroll in Stone Laboratory courses through their home institutions. Stone Laboratory offers scholarships and employment opportunities.

JOIN US AT STONE LABORATORY TO PREPARE FOR YOUR FUTURE

- Examine the ecosystem around Stone Laboratory with leaders in science who bring classroom concepts to life.
- Improve your research skills with practical, hands-on experience in a living laboratory.
- Earn college credit while still in high school.
- Enhance teaching skills in environmental sciences.
- Live, study, and work on an island for one to 11 weeks.
- Get to know your professors personally with 12 to 20 people in your classes.
- Attend Stone Laboratory to prepare for college, graduate school, your career, and your life.

5-Week Courses
- Field Entomology
- Aquatic Entomology
- Ichthyology
- Field Zoology
- Higher Aquatic Plants
- Marine Biology & Ecology
- Limnology
- Fish Ecology
- Individual Studies

1-Week Educators’ Courses
- Workshop in Environmental Education: Global Change
- Marine & Aquatic Education
- Geologic Setting of Lake Erie
- Principles of Oceanography for Science Teachers
- Insect Biology for Teachers

1-Week Introductory Courses
- Introductory Insect Biology
- Introductory Aquatic Biology
- Introduction to the Study of Birds
- Field-Based Introduction to Oceanography

CUSTOM-PLANNED AQUATIC SCIENCE WORKSHOPS and group field studies are offered from mid-April through October. Science teachers who teach 4th grade classes and higher are encouraged to bring their students to Stone Laboratory for one to three days of field study. Stone Laboratory can provide laboratories, research boats, field equipment, and experienced field ecologists for such groups.

TEACHERS can study during the summer in pursuit of advanced degrees. While all courses are open to teachers, several one-week courses are designed specifically for teachers.

TEACHING OPPORTUNITIES are available. Much of the success of Stone Laboratory is due to the hands-on approach to learning, the small class size, and selection of superior instructors. Anyone with an interest in teaching one of the courses should contact the Director, Jeffrey M. Reutter.

CONFERENCE AND RETREAT FACILITIES are available from mid-April through October. The isolated, informal atmosphere on the island make it ideal for these programs.

RESEARCH FACILITIES at Stone Laboratory are available year round.

FOR MORE INFORMATION CONTACT:
Dr. Jeffrey M. Reutter, Director
F. T. Stone Laboratory
The Ohio State University
1314 Kinnear Road, Room 1541
Columbus, OH 43212-1194
614/292-8949
Fax 614/292-4364
reutter.1@osu.edu

F. T. Stone Laboratory: Ohio’s Lake Erie Laboratory for more than 100 years.

Stone Laboratory’s facilities include a research building (above), a library, a 21-room laboratory/classroom building (top of page), a dining hall, and five residence halls.