THE OHIO JOURNAL OF SCIENCE
ISSN 0030-0950

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 Submission of a manuscript is understood to mean that the work is original and unpublished, and is not being considered for publication elsewhere.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 to:

Dr. Isadore Newman, Editor
THE OHIO JOURNAL OF SCIENCE
Idabelle Firestone Center
41 Arch Street
Akron, OH 44304-1499 USA

Page Charges: Publication of THE OHIO JOURNAL OF SCIENCE requires that authors assist in meeting publication expenses. These costs will be assessed at $85 per page for members of the Academy and $120 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:

AcadSci Abstracts
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
2004 Youngstown State University
April 16 - 17 – 18

TYPESetting, PAGE LAYOUT, AND EDITORIAL PROOFreading — ArDELLA PIERCE
Date of Issue — April 2003
Copyright © 2003 by The Ohio Academy of Science
Printing — Spencer-Walker Press, Inc., Newark, OH USA

DIVISION EDITORIAL BOARD
THE OHIO JOURNAL OF SCIENCE

Biological Sciences
Chester Ray Cooper, Youngstown State University
Daniel Ely, The University of Akron
Robert F. Rakowski, Ohio University

Chemical Sciences
George R. Newkome, The University of Akron

Earth & Space Sciences
Yildirim Dilek, Miami University of Ohio
Gregory Schumacher, Ohio Department of Natural Resources

Ecological & Environmental Sciences
Lauchlan Fraser, The University of Akron

Education
Charles L. Salzberg, Utah State University
Beth Stroble, The University of Akron

Information Technology, Computing & Communications
Al Herbert, The University of Akron

Mathematical Sciences
Arjun Gupta, Bowling Green State University

Medical Sciences & Health Technology
Mitchell Harmon, M.D., Ph.D., Kronos Longevity Institute, Phoenix, AZ
Richard Josephson, M.S., M.D., Summa Health Systems, Akron, OH

Methodology
Keith McNeil, New Mexico State University
John Pohlmann, Southern Illinois University

Nanotechnology
Lloyd Goettler, The University of Akron
Steven Chuang, The University of Akron

Physical Sciences & Polymer Sciences
Ernst Von Meerwall, The University of Akron

Social & Behavioral Sciences
Dick Genardi, The Union Institute
Andreas Karkowski, Capital University

Division Editors are needed in the followings areas:

Biotechnology
Engineering & Technology
Molecular Genetics, Genomics, & Cell Biology

Send a letter of interest outlining publication experience and a full curriculum vitae to the Editor at the address above.
ARTICLES

2 The Tawawa Woods Natural Landmark: I. Survey of Flora and Land Use History by C. A. Lowell, J. E. Silvius, and S. Darrow

12 The Tawawa Woods Natural Landmark: II. Plant Species Composition and Recovery from Disturbance by J. E. Silvius, C. A. Lowell, and C. Knickerbocker

19 New Cladid Crinoid (Phylum Echinodermata) from the Middle Devonian Delaware Limestone, Franklin County, Ohio by W. I. Ausich

25 Nest Box Use and Nesting Success of House Wrens (Troglodytes aedon) in a Midwestern Wetland Park by T. B. Dailey

29 A Survey of Fungal Diversity in Northeast Ohio by B. A. Bunyard

BOOK REVIEWS

33 Life, Temperature, and the Earth: The Self-Organizing Biosphere by D. Schwartzman Reviewed by J. Boyer

34 List of Reviewers, Volume 102

INSTRUCTIONS TO AUTHORS — inside back cover

COVER PHOTO: Tawawa Woods, Wilberforce, Ohio, an Oak-Maple-Beech forest at the campus of Central State University, experienced significant disturbance during a tornado in 1974. Green Hall is visible in the background. How many damaged trees can you count? The American Beech, Fagus grandifolia, in the foreground demonstrates a characteristic arching growth resulting from the impact of another falling tree. The resultant loss of apical dominance and subsequent vertical growth of lateral branches enhance the arched tree's chances of filling the canopy gap produced by the tree fall. Eventually, this tree will topple and create additional disturbance as part of a disturbance cascade described in Silvius and others (pp. 12-18). (Photo courtesy of Dr. John Silvius, Cedarville University, Cedarville, OH.)