Editorial Policy:

General:
THE OHIO JOURNAL OF SCIENCE considers original contributions from members and non-members of the Academy in all fields as listed below under Sections of The Ohio Academy 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 Submission of a manuscript is understood to mean that the work is original and unpublished, and is not being considered for publication elsewhere.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. Lee A. Meserve, Editor
THE OHIO JOURNAL OF SCIENCE
Department of Biological Sciences
Bowling Green State University
Bowling Green, OH 43403-0212

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. 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 Contents (Agriculture, Biology & Environmental Sciences)
- Environmental Information Center
- Forestry Abstracts
- Geology Abstracts
- Horticulture Abstracts
- Nuclear Science Abstracts
- Selected Water Resources Abstracts

FUTURE ACADEMY MEETINGS
1991 To be determined—Centennial Celebration
May 1, 2, and 3 1992 The University of Akron
1993 Youngstown State University

Date of issue—June 1990
Copyright © 1990 by the Ohio Academy of Science
Typesetting—UniGraphics, BGSU, Bowling Green, Ohio 43403
Printing—Lesher Printers, Inc., Fremont, Ohio 43420
The Ohio Journal of Science

Volume 90 No. 3 June 1990

The Ohio Journal of Science
Department of Biological Sciences
Bowling Green State University
Bowling Green, OH 43403
419/372-2291

Editor Lee A. Meserve
Associate Editor Robert C. Romans
Assistant Editor Susan E. Wenig

Editorial Board
Ann G. Harris
Tom T. Hartley
Chris J. Miko
Marlan Moeckel
Thomas W. Schmidlin
Hilda M. Standley

The Ohio Academy of Science
445 King Avenue
Columbus, OH 43201
614/424-6045

President—Martha Kreimer-Birnbaum
Past President—Allen G. Noble
President Elect—John Schaff
Secretary—Barbara Andreas
Treasurer—Robert H. Esman
Junior Academy Director—Lois A. Cook
Executive Officer—Lynn Edward Elfner

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, 445 King Avenue, Columbus, OH 43201-2531. Second class postage paid at Columbus, OH.

INSTRUCTIONS TO AUTHORS — inside back cover

COVER PHOTO: Bog at Fern Lake, Geauga County, OH, around 1912. Photo reproduced from Dachnowski, 1912 (see p. 55, this issue) with permission of the Division of Geological Survey, ODNR. Recently, the present vegetation of this and other bogs in northeastern Ohio has been identified and cataloged (Andreas and Bryan, pp. 54-66).

Articles

54 The vegetation of three Sphagnum-dominated basin-type bogs in northeastern Ohio by B. K. Andreas and G. R. Bryan

67 Corn Growth Retardation Resulting from Soybean Herbicide Residues by M. Beuerlein, M. Loux, and J. Beuerlein

71 Effect of Sodium Bisulfite on Peroxidase Activity and Electrolyte Leakage in Maize in Relation to Sporulation of Bipolaris maydis Race T by M. Akhtar and M. O. Garraway

77 Variation in the Airborne Fungal Spore Population of the Tuscarawas Valley with Respect to Microenvironment, Time of Day, and Date by F. Nussbaum


Departments

Book Reviews

90 The Evolution of Sex: An Examination of Current Ideas edited by R. E. Michod and B. R. Levin Reviewed by S. H. Vessey


92 Cell Cycle Control in Eukaryotes edited by D. Beach, C. Basilico, and J. Newport Reviewed by E. Underwood

92 Mathematics and the Unexpected by I. Ekeland Reviewed by A. M. W. Glass

93 Down and Out in America: The Origins of Homelessness by P. H. Rossi Reviewed by J. R. Calysn

INSTRUCTIONS TO AUTHORS — inside back cover

COVER PHOTO: Bog at Fern Lake, Geauga County, OH, around 1912. Photo reproduced from Dachnowski, 1912 (see p. 55, this issue) with permission of the Division of Geological Survey, ODNR. Recently, the present vegetation of this and other bogs in northeastern Ohio has been identified and cataloged (Andreas and Bryan, pp. 54-66).