

THE OHIO JOURNAL OF

SCIENCE

JULY  
1962

A Cartographic Cavalcade. . . . .	<i>Guy-Harold Smith</i>	161
An Examination of Heterosis in Crosses of Certain Inbred Strains of Mice <i>Edwin Franks, N. S. Fechheimer and Carl Cohen</i>		177
A New Subspecies of Diplocardian Earthworm from Oklahoma (Oligochaeta: Megascolec- idae) . . . . .	<i>W. R. Murchie</i>	185
An Introduction to the Problem of Photo- graphic Artificial Satellites <i>Radames K. H. Gebel, Roy R. Hayslett and Lloyd R. Wylie</i>		191
Mollusks of the Cheat River Watershed of West Virginia and Pennsylvania, With Com- ments on Present Distributions <i>Frank J. Schwartz and William G. Meredith</i>		203
Editor Change . . . . .		207
Annual Report . . . . .		208
Book Reviews . . . . .	176, 184, 190, 202, 207	

# THE OHIO JOURNAL OF SCIENCE

*Published jointly by The Ohio State University and The Ohio Academy of Science.*

## JOURNAL STAFF

DAVID H. STANSBERY.....Editor-in-Chief  
RICHARD A. POPHAM.....Business Manager  
THOMAS H. LANGLOIS.....Book Review Editor

## JOINT ADMINISTRATIVE BOARD

For The Ohio State University: RALPH H. DAVIDSON, MALCOLM WEISS  
For The Ohio Academy of Science: W. G. GAMBILL, JACOB VERDUIN

## ACADEMY SECTION VICE PRESIDENTS

J. K. BALOGH	Anthropology and Sociology	E. L. JOSSEM	Physics and Astronomy
L. P. EBLIN	Chemistry	K. J. NORSTOG	Plant Sciences
E. E. GOOD	Conservation	MRS. M. R. BOWMAN	Science Education
W. N. HARRIS	Geography	E. E. DICKERMAN	Zoology
F. R. NAVE	Geology	R. G. JAAP	Genetics
E. OGDEN	Medical Sciences		

**MANUSCRIPTS:** *The Ohio Journal of Science* considers manuscripts on any scientific subject from contributors anywhere. The manuscripts may be papers or notes on recent research or symposia on subjects of scientific interest. Every paper is critically reviewed by at least one and usually two reviewers, and are subject to the approval of the editorial staff. Two copies each, of manuscript and figures, should be submitted to the Editor. A carbon copy should be retained by the author for reading the galley proof. Galley proof and engraver's proof but not original manuscript will be sent to authors. See past numbers of the *Journal* and the *Style Manual for Biological Journals* for detailed instructions concerning the preparation of manuscripts.

**REPRINTS:** A price list for reprints and an order form are sent with proof. Authors should allow about sixty days after publication for receipt of reprints.

**SUBSCRIPTIONS:** Annual subscription, \$6.00 (foreign countries, \$6.50). Single numbers, \$1.00. Issued bimonthly, January to November, six issues per volume. *The Ohio Journal of Science* is sent without additional expense to all paid-up members of THE OHIO ACADEMY OF SCIENCE.

**MAILING ADDRESS:** *The Ohio Journal of Science*, Botany and Zoology Building, 1735 Neil Avenue, The Ohio State University, Columbus 10, Ohio. All manuscripts, illustrations, proofs, and correspondence dealing with editorial matters should be addressed to the editor, Dr. David H. Stansbery. All remittances and correspondence dealing with subscriptions and other business matters should be addressed to the business manager, Dr. Richard A. Popham. Failure to receive any number of the *Journal* must be reported within three months of date of issue if claim is to be recognized.

---

*Printed by the Spahr & Glenn Company, Columbus, Ohio, U. S. A.*

*Entered as second-class matter November 1, 1915, at the post office at Columbus, Ohio under the Act of March 3, 1879.*

**Date of Issue—Aug. 10, 1962**