

THE OHIO JOURNAL OF

SCIENCE

Vol. 79

April Program Abstracts

PROGRAM ABSTRACTS



**88th Annual Meeting
Heidelberg College
Tiffin, Ohio**

April 20, 21, 22, 1979

PLEASE BRING THIS PROGRAM TO THE MEETING

Additional copies \$3.00 for members
and \$3.50 for non-members

Advance Registration Deadline is April 18
Use Form at end of Program

THE OHIO JOURNAL OF SCIENCE

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Heidelberg College

Tiffin, Ohio

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Parking

Campus parking is available in Lots C and F. See center spread map. Overflow will be directed to off-campus parking, one block east on Greenfield Street. Watch for directions from guides who will be posted at location X on map.

Registration

Registration is required and will be held in the Lobby of the Campus Center. The registration desk will be open on Saturday, April 21 from 8 a. m. to 3 p. m.

Members of the Academy are urged to register in advance by returning the registration form at the end of this program. Registrations and meal reservations must be mailed to Science Secretary, Heidelberg College, Tiffin, Ohio 44883. Please mail them in time to reach Heidelberg by April 18. This will give time to prepare name tags and plan dining arrangements.

An Academy representative will be present in the registration area to accept dues, membership applications, and contributions to The Ohio Academy of Science Endowment Fund.

Meals

Academy Luncheon (Saturday, April 21, Campus Center)
Buffet style. Served from 12:00 - 1:30 p. m. Price: \$3.50

Academy Banquet (Saturday, April 21, Hoernemann Refectory)
Buffet at 6:30 p. m. Price: \$5.00

Visitors without reservations for meals may eat in the college dining room, Hoernemann Refectory, beginning at 12:15 p. m. Price is \$1.65. For those desiring to eat off-campus, a list of restaurants is included at the end of this program.

Housing

Overnight housing in Tiffin is limited. A list of local motels, and motels within a 30 minute commuting distance of the campus, is included.

Exhibits and Coffee

The work of The Ohio Academy of Science receives the support of many of the state's leading corporations and institutions. Some of these organizations have scientific and educational exhibits that may be viewed near the registration desk. Coffee will also be served.

General Meetings

Friday, April 20, 1979

- 12:00 Noon OAS Executive Committee Luncheon. Campus Center, Dining Room.
- 1:30 p. m. OAS Executive Committee Meeting. Campus Center, Dining Room.
Ohio Biological Survey Executive Committee Meeting.
Campus Center, Contemporary Room.
- 5:00 p. m. OAS Fellowship Committee. Campus Center, Africa Room.
- 6:00 p. m. Joint Academy-OBS Dinner. Campus Center, Activity Room.
Advance reservations required.
- 7:00 p. m. Special Program, Ohio Junior Academy of Science Section Only.
Campus Center, Castle.
- 7:30 p. m. OBS Advisory Council Meeting. Campus Center, Great Hall.
- 8:00 p. m. OAS Council Meeting. Campus Center, Activity Room.

Saturday, April 21, 1979

- 8:00 a. m. - 3:00 p. m. Registration. Lobby of Campus Center.
Exhibits. Campus Center, Great Hall.
Poster Sessions. Campus Center, Great Hall.
- 8:00 a. m. - 5:00 p. m. Sectional Meetings. See specific section.
- 11:00 a. m. -12:00 Noon All-Academy Lecture. Gundlach Theatre.
"Biological Evolution, Cultural Evolution and Sociobiological
Speculation" - G. Ledyard Stebbins, Professor of Genetics,
Emeritus, University of California, Davis.
- 12:00 a. m. - 1:30 p. m. All-Academy Luncheon Buffet in Campus Center, Castle.
Editorial Board, The Ohio Journal of Science. Campus Center,
Contemporary Room.
Ohio College Biology Teachers' Conference. Meeting in Campus
Center, Activity Room.
National Association of Geology Teachers' Luncheon. Check
registration desk for location.
- 6:30 p. m. Annual Banquet and Business Meeting. Hoernemann Refectory.
Toastmaster: Dr. Edwin T. Ashworth, Professor of Geology,
Heidelberg College
Greetings: Dr. Leslie H. Fishel, Jr., President, Heidelberg
College
Response: Dr. Charles M. Vaughn, Past President, The Ohio
Academy of Science
Awards and Recognition
Presidential Address: "The Lowly Invertebrates: An Historical
Perspective" - Dr. Jerry H. Hubschman, The Ohio
Academy of Science
Business Meeting: President Jerry H. Hubschman, Presiding

Special Symposia

Government Regulations and the Training of Geologists - see p. m. Geology

Crustal Evolution Education Project - see a. m. Science Education

Lake Erie Related Teaching Materials - see a. m. Science Education

Science Laboratory Safety Training Program - see a. m. Science Education

Local Government Planning and Development Act - see p. m. Conservation

Death, Coping Styles, and Needed Services for Critically Ill - see a. m.
Psychology

Emerging Developments in Evaluation as They Apply to Health and Other
Related Areas - see p. m. Psychology

Current Urban Research in Ohio: An Informal Exchange - see p. m.
Administrative Sciences and Planning

Financing Public Education in Ohio - See a. m. Economics

Sunday, April 22, 1979

Fields Trips

- 9:00 a. m. Geology Field Trip. The annual Ohio Academy of Science field trip, run this year for members of both the Academy and the National Association of Geology Teachers, will take place generally along the shores of Lake Erie between Marblehead-Catawba and Vermilion, and will be run by Dr. Charles H. Carter, of the Lake Erie Section, Ohio Division of Geological Survey, and Dr. Jane L. Forsyth, of Bowling Green State University. Stops will afford opportunities to observe excellent exposures of Devonian and Pleistocene units in the lake cliffs and the effects of erosion and deposition along the shoreline, including their environmental influences on man and vice versa. Although Lake Erie has lowered considerably from its record high levels of 1973, problems produced by erosion along the shore are still impressive. A few stops will also be made at some Pleistocene shoreline features south of the Erie shore.

The field trip will convene at 9:00 a. m. at the Marblehead Light House on the east end of Marblehead Peninsula. Transportation will be by private car. Carpooling is urged, to reduce parking problems at stops. A lunch stop will be made in a park en route; participants will be responsible for their own lunches.

- 9:30 a. m. The Plant Sciences Section is sponsoring a spring wildflower field trip to one or more of the natural areas managed by Heidelberg College. These beech-maple woodlots are located within a few miles of Tiffin and represent various stages in forest development.

Persons wishing to attend the field trip are requested to meet at the Laird Science Hall at 9:30 a. m. The trip will conclude about noon. Leaders are Percy Lilly and Ronald Stuckey.