

The Ohio Academy of SCIENCE: 12 Reasons to Join

1. Subscription to *The Ohio Journal of Science*
2. Copies of the OAS *NEWS*
3. Annual Meeting and Program Abstracts
4. Support of the Ohio Junior Academy of Science
5. Eligibility for Membership in the BMI Federal Credit Union
6. A Welcome Tax Deduction
7. Recognition, Honors, and Awards
8. Affiliation With One of 19 Sections
9. Representation of Your Interests
10. Invitations to Lectures, Seminars, Symposia, and Courses
11. Support of a Science Information and Referral Center
12. Association With Leading Scientists and Engineers

For additional information contact: The Ohio Academy of Science,
445 King Avenue, Columbus, OH 43201. Phone (614) 424-6045.

“The Academy is the common meeting ground of the scientific activities of the State.”

About the Academy

The Ohio Academy of Science is a nonprofit membership organization founded in 1891 to stimulate interest in the sciences, to promote research, to improve instruction in the sciences, to disseminate scientific knowledge and to recognize high achievements in attaining these objectives. Anyone interested in science may join. Recognized as the common meeting ground of the scientific activities of the State, the Academy publishes *The Ohio Journal of Science*, promotes youth science opportunities through the Ohio Junior Academy of Science, and conducts an annual meeting with presentations in nearly 20 fields of science.

YES! I Want to Join The Ohio Academy of Science

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- \$500 Annual Corporate
- \$500 Life
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- \$27 Annual Professional*
- \$15 Annual College Student*
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- Section Choice _____
- Payment Enclosed \$ _____

Sections

- A. Zoology
- B. Plant Sciences
- C. Geology
- D. Medical Sciences
- E. Physics and Astronomy
- F. Geography
- G. Chemistry
- H. Science Education
- I. Anthropology and Sociology
- J. Natural Resources
- K. Genetics and Cell Biology
- L. Math and Computer Sciences
- M. Psychology
- N. Junior Academy (High School)
- O. Engineering
- P. Administrative Sciences and Planning
- Q. Economics
- R. Ecology
- S. Information and Library Sciences

*50% of dues allocated for The Ohio Journal of Science subscription.

Please make checks payable and mail to:

The Ohio Academy of Science
445 King Avenue
Columbus, Ohio 43201
(614) 424-6045

REGISTRATION FORM

99th Annual Meeting
The Ohio Academy of Science
April 27-29, 1990

Hosted by
Wright State University
Dayton

Advance reservations required for meals.

Reservations with payments must be
postmarked by Friday, April 20, 1990.

*Make checks payable to Wright State University
and mail to:

Wright State University
ATTN: Jane Schelb
Conferences & Continuing Education
151 University Center
Dayton, OH 45435

Phone (513) 873-2912

Registration required.

Access to sessions by name tag only. Name tags
available at Registration Desk at the meeting.

PLEASE TYPE OR PRINT

Please circle title: Ms. Mrs. Mr. Dr.

NAME _____

ADDRESS _____

ADDRESS _____

CITY/STATE/ZIP _____

PHONE (____) _____

Academy member? Yes No No, but I am
joining with this form.

Name of employer or institution: _____

Are you a _____ professional? _____ student? _____ other.

Please register **EACH PERSON** on a separate form.
Please duplicate forms as needed.

Which of the following will you attend?

Friday, April 27, 1990

Workshops (each limited to first 24 teachers)

NOTE: You may attend both the FAST PLANTS and
the protein workshops.

Brassica FAST PLANTS

Protein Gel Electrophoresis

Microchemistry

Saturday, April 28, 1990

Technical Section paper and poster presentations

All-Academy Lecture

Sunday, April 29, 1990

Plant sciences field trip

Geology field trip

REGISTRATION FEE

(one fee covers all three days)

	Member	Non-Member	
Student	\$6	\$9	_____
Professional	\$15	\$20	_____

MEALS

Friday, April 27

Dinner \$11 _____

Saturday, April 28

Lunch \$8 _____

Banquet \$13 _____

Membership in The Ohio Academy of Science

New Renewal

Student	Professional	Family	
\$15	\$35	\$45	_____

***TOTAL ENCLOSED:** \$ _____

AUTHOR'S INSTRUCTIONS FOR PREPARATION OF MANUSCRIPTS FOR PUBLICATION IN THE OHIO JOURNAL OF SCIENCE

THE OHIO JOURNAL OF SCIENCE considers for publication submissions of the following nature:

1. Solicited Submissions - **Book Reviews, Research Reviews.**
2. Unsolicited Submissions - **Brief Notes, Research Reports.**

Solicited submissions will be requested by the editor or by a member of the editorial board. **Book Reviews** will be requested of individuals expert in the subject matter of the book to be reviewed. The approximate length will be 750 words, and the text will include a brief description of the subject matter addressed by the volume, its outstanding strong points, and any obvious weaknesses. **Research Reviews** will be requested to serve as extensive surveys of the literature of an area of science in which Academy members have an interest. In general, reviews will comprise five to ten printed pages. Organization and format of solicited material will be determined by the author(s) and the editorial staff.

Unsolicited submissions, in the form of presentations of quantitative or qualitative data pertinent to any of the sections of the Academy listed inside the front cover, will be considered for peer review. **Brief Notes** are manuscripts which will be published on less than two printed pages (i.e., less than six pages of typescript) and will contain no more than one piece of illustrative material (i.e., table, figure, or other illustrations). The editor will identify papers which meet these criteria as **Brief Notes** if not so categorized by authors. **Research Reports** are papers which will extend beyond two printed pages and which will contain two or more pieces of illustrative material. Regardless of the length of manuscript, unsolicited submissions should be organized according to the following format:

Page 1 - Title, Author(s), Affiliation(s), Abstract

Page 2 and the remainder - Body of the Paper in the order; Introduction, Materials and Methods, Results, Discussion, Acknowledgements, Literature Cited, Tables, Figure Legends, Figures.

STYLE. The general style of papers previously published by *THE OJS* should be employed, and can be determined by reading recent issues of *THE JOURNAL*. Manuscripts should be typewritten with wide margins on 21.6 x 27.9 cm (8.5 x 11 in) paper, and be double-spaced throughout including the title and abstract. The only words to be underlined are scientific names. Spell out numbers one through nine and use Arabic numerals above nine. Extensive quotations in the text should be typed slightly indented from the other text. Acceptable symbols and abbreviations for units of measurement should be used as given in the *CBE Style Manual*, 5th ed. (Council of Biology Editors, Inc., 9650 Rockville Pike, Bethesda, MD 20814). This volume is used for editorial decisions with regard to style. Primary text reference should use the International System of Units in all cases, with parenthetical reference to English units at the discretion of the author.

The following guidelines should be adhered to in the organization of the manuscript.

TITLE, AUTHOR(S), AFFILIATION(S). The first page of the manuscript should contain the title, author(s) name(s), the affiliation of the author(s) at the time the research was carried out, a shortened title (running head), and the abstract. The title must be typed in upper and lower case letters as it will appear when typeset. Name(s) of the author(s) should be typed in capital letters below the title. The address (department, institution, city, state, postal code, country if not USA) where the research was done should be typed below the name of the author. If more than one institution is to be credited, they should appear in the order of the authors' affiliation. If typed by word processor, copy **should not be justified**. Please use Elite (12 characters per inch) type. A running head of no more than 38 letters and spaces should be typed in capital letters between the address and the abstract.

ABSTRACT. The abstract should be a meaningful summary of the significant findings reported in the Brief Note or Research Report. It should be self-sufficient for the presentation of main conclusions and any new methods or procedures critical to the results of the study. The abstract should be brief (250 words or less) but should be written in complete sentences for purposes of comprehension and clarity. Phrases such as "is presented," "is explained," or "is discussed" should not be used. Abstracts from *THE JOURNAL* appear in major international abstracting publications, and may be the only contact that other scientists have with your work.

MATERIALS AND METHODS. This section should contain sufficient detail to allow the reader to attempt replication of the reported research. If reference is made by literature citation only to research methods devised by others, any unique modifications of the standard procedure should be explained. Any statistical methods used in the analysis of data should be described and documented.

RESULTS. The text of the results should be a descriptive narrative of the main findings, both positive and negative if the latter occurred, of the reported study. This section should not be simply a listing of the tabulated data in text form. Reference to tables and figures included in this section should be made parenthetically in the text.

DISCUSSION. This section should consist of the comparing and contrasting of data collected in the presented study with that previously reported in

the literature. A goal is to incorporate at least one literature citation and one reference to illustrative material from the Results section into each paragraph of discussion. Unless there are specific reasons to combine the two, as explained by the author in the letter of transmittal, Results and Discussion should be separate sections.

ACKNOWLEDGEMENTS. Colleagues and/or sources of financial support to whom thanks are due for assistance rendered in completion of the research or preparation of the manuscript should be recognized in this section rather than in the body of the text.

LITERATURE CITED. References to scientific literature should be arranged alphabetically by first author's last name according to the following examples.

Journals: Ackerman, B. 1985 Temporal march of the Chicago heat island. *J. Clim. Appl. Meteorol.* 24: 547-554.

Books: Schmidt, G. D. and L. S. Roberts 1977 Foundations of Parasitology. C. V. Mosby Co., St. Louis, MO.

Chapters: Dancis, J. and H. Schneider 1975 Physiology: Transfer and barrier function. In: P. Gruenwald (ed.), *The Placenta and Its Maternal Supply Line*. University Park Press, Baltimore, MD. p. 98-124.

Abbreviation of journal titles should be supplied by the author, and should follow the *CBE Style Manual* form. References in the text are of the form **Patterson (1940)** or **(Patterson 1940)**; if more than two authors appear, the form should be **Patterson et al. (1940)**, with all authors listed in the Literature Cited section.

TABLES. Tables must be typed double-spaced, one table to a page, numbered consecutively, and placed in the manuscript after Literature Cited. Since tables must be individually typeset, consolidation of data into the smallest number of tables is encouraged. A horizontal double underline should be made beneath the title of the table, and single underlines should be made the width of the table below the column headings and at the bottom of the table. **Do not use vertical lines, and do not place horizontal lines in the interior of the table.** Footnotes should be used to clarify possible questions within the table, and should be noted by asterisks, daggers, or other symbols to avoid confusion with numerical data. General style of tables can be seen in recent issues of *THE JOURNAL*.

FIGURE LEGENDS. Each figure must have a complete legend even though the material is described in the text. The legends should not be placed on the figure, but should be typed in order, doubled-spaced, on a separate sheet which precedes the figures in the manuscript. Figures should be referred to parenthetically in the text, for example **(Fig. 1)**.

FIGURES. All illustrations are referred to as "figures," and must be numbered consecutively. Figures may be photographs, or hand- or computer-generated line drawings in black ink. For the sake of economy, closely related illustrations should be grouped and mounted close together on white cardboard for reproduction as a single unit; however, line drawings and photographs should not be grouped together or combined in a single figure. Each figure, or collection of figures in a plate, should be identified along the top edge with name of author(s) and figure number, and on the back with name of author(s) and manuscript title. Illustrations other than those generated by the author must bear permission for use and credit to the originator. **ORIGINAL ART WORK WILL NOT BE RETURNED UNLESS SPECIFICALLY REQUESTED AT TIME OF SUBMISSION. THE AUTHOR MUST SUPPLY A STAMPED SELF-ADDRESSED ENVELOPE FOR RETURN.** The size and proportions of each illustration or group of illustrations should be suitable for reduction to the width and length of the printed page (17.8 x 24.1 cm; 7 x 9.5 in). Care should be taken to minimize the space occupied by any figure, and excessive white space should be avoided. Line drawings should not exceed 20 x 25 cm (8 x 10 in). If carefully drawn, figures need be no more than 33% larger than the size desired in print. Lettering should be done of a size to ensure that it can be read after reduction. On maps and other illustrations where original size is a concern, a graphic scale should be incorporated into the figure. Besides the original art work for each illustration, two photocopies of each should be submitted to avoid delay in the review process.

FOOTNOTES. Text footnotes should not be used with the following exceptions. A footnote to the title will be added editorially to state the dates of manuscript submission and revision. A footnote to name(s) of author(s) may be used to indicate a present address different from that at which the research was done, or to indicate the author to whom inquiries should be directed. All other material or comments must be incorporated into the text. In no case should literature citations be inserted as footnotes. They must be listed in the Literature Cited section. Footnotes to tables are permissible, and are encouraged to promote clarity.

Attention to the above instructions will minimize the need for revision and editorial correction, and will shorten the time from submission to publication. Any questions which are not answered by these instructions, by examining papers in recent issues of *THE JOURNAL*, or by the *CBE Style Manual*, 5th ed., should be addressed to the editor.

**Proposed*

T · H · E
OHIO
ACADEMY O
SCIENCE
FOUNDATION

Mr. Daniel William Hehr
Findlay Univ.-Hazardous Mat
1000 North Main Street
Findlay OH 45840-3695

*See 118th Ohio General Assembly Senate Bill No. 260 and House Bill No. 671