

## How to get to Malone College Canton

1. Take I-77 to U.S. Rt. 62 East-Alliance (Exit 107B).
2. Exit at Market Avenue and go right on Market. (If traveling from U.S. Rt. 62 West, turn left on Market.)
3. Turn right on 25th Street N.W..
4. Malone College is on the right side at 515 25th Street N.W.
5. Turn through the main gate to Centennial Drive.
6. Parking is in front of the Randall Campus Center on Centennial Drive.

# THE OHIO ACADEMY OF SCIENCE ANNUAL MEETING

## Registration Form

105th Annual Meeting

May 3-5, 1996

Hosted by Malone College

Advance registration must be **received** by April 22, 1996.

**ALL authors, presenters and other attendees must register.**

**ALL MEETING ATTENDEES:** Access to sessions by name tag only. Name tag and information packet will be available at the meeting. Please return the completed registration form along with the appropriate fees to the address printed below. Receipts will be available at registration.

**STUDENTS, SIGNIFICANT OTHERS OR RELATIVES:** To promote and encourage participation of undergraduates and pre-college students, any paid, registered student may bring another student (who is not an author/presenter) as a guest for \$5.00. Significant others and relatives of authors/presenters attending only to listen to a presentation may also register for \$5.00. **All students, significant others, and relatives must register using a separate form.** This registration does not include membership or meals which must be paid separately.

**Please use a separate form for each registration; copy this form as needed.**

**PLEASE PRINT OR TYPE**

Circle: Ms. Mrs. Mr. Dr.

NAME \_\_\_\_\_

FIRST MIDDLE LAST

TITLE \_\_\_\_\_

SCHOOL, ORGANIZATION, AGENCY, INSTITUTION, OR EMPLOYER \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_ ZIP \_\_\_\_\_ COUNTY \_\_\_\_\_

HOME PHONE (\_\_\_\_\_) \_\_\_\_\_

WORK PHONE (\_\_\_\_\_) \_\_\_\_\_

FAX (\_\_\_\_\_) \_\_\_\_\_

IS THIS A HOME ADDRESS?  Yes  No

**MAIL FORM WITH PAYMENT TO:**

The Ohio Academy of Science  
PO Box 12519  
Columbus OH 43212-0519  
Phone or FAX 614/488-2228

**PRE-REGISTRATION DEADLINE: April 22, 1996**

### REGISTRATION FEES

Please check appropriate categories. One fee covers **ALL THREE DAYS**. Payment must be **received** by April 22, 1996 to avoid higher rates. On-site registration will be accepted at the higher rate by credit card or check **ONLY**.

**MEMBER RATE**

<input type="checkbox"/> Professional	\$40	Registration After April 22, \$45
<input type="checkbox"/> Student or Retired	\$25	\$30

**NON-MEMBER RATE** (Includes membership)

<input type="checkbox"/> Professional	\$80	\$85
<input type="checkbox"/> College Student or Retired	\$50	\$55
<input type="checkbox"/> Student (Age 17 & under)	\$50	\$55
<input type="checkbox"/> Student (Age 17 & under) or Retired w/o <i>The Ohio J. of Science</i>	\$35	\$40

**GUEST OF PAID REGISTRANT**

<input type="checkbox"/> Student, significant other or relative	\$ 5	\$ 5
---	------	------

**MEALS (ONLY by pre-registration)**

<input type="checkbox"/> Friday, May 3 Lunch	\$ 6	Meals NOT Available after April 22nd.
<input type="checkbox"/> Friday, May 3 Dinner	\$25	
<input type="checkbox"/> Saturday, May 4 Lunch	\$ 6	
<input type="checkbox"/> Saturday, May 4 Banquet	\$25	

**ADDITIONAL INFORMATION** - Check if attending

I will attend the following Internet Sessions  
 Friday -  basic  advanced  
 Saturday -  basic  advanced

I will attend the Ohio Alliance for the Environment on Friday May 3 \$15

I will attend the following Sunday field trip  
 Plant Sciences  
 Geology (includes guide) \$ 5

**MEMBERSHIP RENEWAL**

<input type="checkbox"/> Family (max. 3 persons)	\$60
<input type="checkbox"/> Regular Member	\$50
<input type="checkbox"/> Retired (age 59 and over) Member w/OJS	\$30
<input type="checkbox"/> College Student	\$30
<input type="checkbox"/> Student (Age 17 & under) w/OJS	\$30
<input type="checkbox"/> Retired Member w/o OJS	\$15
<input type="checkbox"/> Student (Age 17 & under) w/o OJS	\$15



**TOTAL ENCLOSED \$ \_\_\_\_\_**

**NO REFUNDS AFTER April 26, 1996.**

**METHOD OF PAYMENT**

*Only registrations paid by Purchase Order, VISA, or MasterCard will be accepted by FAX at 614/488-2228 (M-F 9am-5pm).*

- Confirms a FAXed registration
- Check enclosed payable to **The Ohio Academy of Science**
- Purchase order enclosed (A \$2.00 processing fee will be added)
- Charge my credit card (A \$2.00 processing fee will be added)

VISA 
 MASTERCARD 

Card Number

Exp. Date  /

Signature \_\_\_\_\_

# Registration Policies

105th Annual Meeting

May 3-5, 1996

Hosted by Malone College

Advance registration must be **received** by April 22, 1996.

**ALL authors, presenters and other attendees must register.**

**ALL MEETING ATTENDEES:** Access to sessions by name tag only. Name tag and information packet will be available at the meeting. Please return the completed registration form along with the appropriate fees to the address printed below. Receipts will be available at registration.

**STUDENTS, SIGNIFICANT OTHERS OR RELATIVES:** To promote and encourage participation of undergraduates and pre-college students, any paid, registered student may bring another student (who is not an author/presenter) as a guest for \$5.00. Significant others and relatives of authors/presenters attending only to listen to a presentation may also register for \$5.00. **All students, significant others, and relatives must register using a separate form.** This registration does not include membership or meals which must be paid separately.

**Please use a separate form for each registration.**

**Please copy this form as needed.**

## Official Announcement For Members Only

Saturday, May 4, 1996

5:30 P.M.

Malone College, Canton

Timken Science Hall Room 100

### ANNUAL BUSINESS MEETING FOR MEMBERS ONLY:

There shall be an Annual Business Meeting for the membership of the Academy during the Annual Meeting. The business session shall be conducted in accordance with the most recently published edition of "*Robert's Rules of Order*".

The order of procedure shall be as follows:

- A. A Call to Order by the President.
- B. A summary of the Minutes of the previous meeting shall be read by the Secretary.
- C. Presentation of the report of the tellers of the election of officers and other positions.
- D. Voting on any proposed amendments to the *Constitution* or *By-Laws*.
- E. Business from the floor.
- F. Adjournment.

*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.

*PRELIMINARY*  
**CALL FOR PAPERS**

106th Annual Meeting -- April 4-5-6, 1997

**The Ohio Academy of Science**

To be hosted by

**BOWLING GREEN STATE UNIVERSITY**

Bowling Green, Ohio

Poster and Podium Presentations on Saturday, April 5, 1997

Abstract deadline: Postmarked by November 15, 1996

For abstract forms  
or further information call or write:

The Ohio Academy of Science  
P.O. Box 12519  
Columbus, OH 43212-0519  
Phone or FAX (614) 488-2228