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## Back Matter

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## MAS ANNOUNCEMENTS

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The Hopkins House, Hopkins was the site of our recent 21st Annual North Central Regional Science, Engineering and Humanities Symposium. The 3 day program provided 150 participants with keynote speaker Mary Geck (one of the 1988 National Symposium winners), evening speaker Dr. Glen Schmeig (U. of Wisconsin), research paper presentations by 16 student invitees from the North Dakota, South Dakota, Minnesota Tri State Region 3M Company host scientist laboratory tours, Science Museum of Minnesota Omni Theater presentation of "The Great Barrier Reef", a College Fair, Science Lexicon, Cray Awards Luncheon and opportunities to meet and exchange ideas with other students or teachers. Special thanks to 3M Companies, Science Museum of Minnesota, Environmental Sciences Foundation, Cray Research Foundation, Colleges/Universities in Minnesota, Mary Geck and Dr. Glen Schmeig for their contribution toward the program's success.

The 1989 election of new Officers and Board members will take place this upcoming March. The Nominating Committee is seeking candidates and would appreciate response from any member who wishes to serve in this capacity. In accordance with the by-laws, in order to be eligible for candidacy, a member must be a current voting member in good standing. If you or another member you know is interested in becoming a candidate, please write or contact the Academy office no later than February 1st, with the name of the candidate. Positions that will be open are:

- 2 year term: Secretary/Treasurer
- 3 year term: Director Elect, Jr. Academy
- (2) 4 year terms: Director (Industry)

### Friday Science Socials: Science for the People

The Minnesota Academy of Science and the Science Museum of Minnesota is co-sponsoring one Friday evening a month for

those who enjoy science to pick up new facets of scientific understanding as they participate in a social environment. These gatherings will take place in the Penthouse of the Museum and will begin at 7:30 p.m. on the second Fridays of January through May. A minimal charge of \$3.00 per person per session, or \$15.00 per person for the series, will include refreshments. The featured scientists, who will give brief presentations on what they find new and interesting about science, will donate their time.

The intent of the Friday night Science Socials is to provide a socially relaxed environment within which people who enjoy science, regardless of their backgrounds, may visit with each other and react to the featured scientists' presentations. The presentations are not to be formal lectures, but a relaxed sharing of interesting ideas. Academy of Science and Science Museum members are especially invited, but anyone of any age who desires to listen to or participate in discussions of ideas relating to science and humanity is welcome.

Friday, February 10 - "Biomedics/An Evening with Dr. Otto Schmitt"

Biophysist Dr. Otto Schmitt, coined the term 'Biomimetics', a new area emerging in Science and Technology - a science that emulates and draws its inspiration from life itself. Dr. Schmitt will discuss ways to optimize health and the applications of the Santosha index, a scientific measure of the quality of life. He is Professor Emeritus of Electrical Engineering Biophysics and Bio Medical Engineering at the University of Minnesota, and is currently associated with the Bakken Museum.

Additional copies of this special issue of the *Journal* are available at a charge of \$4.00 per copy (includes postage and handling). Please forward your order, along with remittance, to the Minnesota Academy of Science, Suite 916, Pioneer Building St. Paul, MN 55101.

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## CALENDAR OF EVENTS

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*Editor's note: This calendar is intended to inform MAS members and others about scientific meetings and symposia of interest in Minnesota and surrounding states. Please send notices of upcoming events to The Editor, Minnesota Academy of Science Journal, Suite 916 Pioneer Building, St. Paul, MN 55101.*

### February

**10:** Friday Science Social: Science For the People Science Museum of MN, St. Paul Adela Elwell, MAS; Kate Murray, Sue Wichman, Ruth Taswell, SMM-Coordinators.

### March

**10:** Friday Science Social: Science For the People Science Museum of MN, St. Paul.

### April

**March 31-April 1:** 57th Annual Spring Meeting, St. Olaf College, Northfield, MN-Program Director, Ted Molitor; on site Coordinator, Harold Hansen.

**14:** Friday Science Social: Science For the People-Science Museum of MN, St. Paul.

**16-18:** 52nd Annual State Science Fair & Research Paper Program-St. Cloud State U. (Holiday Inn-St. Cloud will be the Headquarters). Nancy Zwickey, Lake Crystal High-Director; Dr. Leonard Soroka, SCSU, on-site Coordinator.

### May

**7-13:** 40th International Science & Engineering Fair Pittsburg, Pennsylvania. Mavis Anderson, Transportation Coordinator.

**12:** Friday Science Social: Science For the People Science Museum of MN, St. Paul.

# Notice to Contributors of Articles

Persons submitting papers for publication in the *Journal* are asked to prepare material in accordance with style and format preferences of this publication. Although some of these requirements may differ from those of other publications, cooperation of authors is necessary to comply with the printing process.

## Publication Policy

Membership in the Minnesota Academy of Science is desirable but not necessary for publication. All papers that meet the editorial criteria of the Academy will be considered for publication. Papers should not have been published, submitted, or accepted for publication elsewhere.

## Submission Requirements

Research articles, review articles, and essays will be considered for publication. An original and two complete copies of each manuscript, typed double-spaced on 8½ by 11 inch paper, should be submitted, along with one set of original photographs or illustrations. Number pages consecutively, beginning with the title page. *Review articles* and *essays* may be divided into sections with appropriate headings and sub-headings at the discretion of the author; an abstract and a reference section must be included. *Research articles* should be arranged as follows: (a) Title page with the title, authors' names and affiliations; (b) Abstract; (c) Introduction; (d) Materials and Methods; (e) Results; (f) Discussion (may be included with the Results); (g) References; (h) Tables; (i) Figures; and (j) Legends for all figures. Simple chemical formulas or mathematical equations should be in a single horizontal line; submit more complicated formulas or structures in a form suitable for photographic reproduction.

Specific style requirements are as follows:

**Title.** Titles should be brief but informative and limited to about 100 characters.

**Authors.** Authors of research articles should include their full names and affiliations; persons submitting review articles or essays should include a brief, relevant biographical sketch. Submit the full name, address, and phone number of the author to whom all correspondence is to be directed on a separate page.

**Running title.** A brief running title of not more than 50 characters should be provided.

**Footnotes.** Footnotes cannot be used.

**Abstract.** An abstract of about 250 words which summarizes the major findings should be included. Use of abbreviations is discouraged; if needed, they must be defined.

**Introduction.** The introduction should acquaint the reader with the problem or question addressed by the author's investigation.

**Materials and Methods.** Description of the experimental methods should be brief but adequate for repetition by qualified investigators. Procedures that have been published previously should not be described in detail but merely cited in appropriate references.

**Results.** This section should include a concise description of the data presented in the tables and figures. Excessive elaboration of data already given in tables and figures should be avoided. The results and discussion sections may be combined if the logical sequence of the material is improved.

**Discussion.** In this section, the data should be interpreted concisely without repeating material already presented in the results section. Speculation is permitted.

**References.** References should be numbered consecutively as they are cited in the text. The format to be used for *Journal* references is as follows:

1. Croxton, F., and Crowden, D. 1946. *Applied General Statistics*. New York: Prentice-Hall, Inc.
2. Baker, D. 1960. Temperature trends in Minnesota. *Bull. Amer. Meteorological Soc.* 41:1-18.
3. Upton, F.C. 1957. Physical carcinogenesis: radiation, history and sources. In: F.F. Becker (ed.), *Cancer*, Vol. 3, pp. 387-402. New York: Plenum Press.

**Tables.** Each table must have a descriptive title and an explanatory paragraph that permits the reader to understand experimental details without reference to the text. Each column must carry an appropriate heading and if numerical measurements are given, these units should be added to the column heading. Tables should be numbered with Arabic numerals and table footnotes should be indicated with superscript, lower-case letters.

**Figures.** Figures must be submitted in a condition adequate for direct reproduction in the *Journal*. Each figure should be accompanied by a legend, typed double-spaced on a separate sheet of paper, that briefly describes the data shown. Details in the text need not be repeated. All units, abbreviations, mathematical expressions, abscissas, ordinates, and symbols must be adequately identified.

## Page Charges

Ability to pay page charges is not a prerequisite for publication in the *Journal*. However, if grant or institutional funds are available for such charges, the Academy appreciates the help in defraying publication costs. Details are provided at the time that proofs are mailed to authors.

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