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The Ohio Academy of SCIENCE:
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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.

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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 reviewed by the editor or by a member of the editorial board. Book Reviews will be requested of individuals expert in the subjects which the book is 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 two typewritten pages), and will contain no more than five printed pages 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, Acknowledgments, Literature Cited, Tables, Figure Legends, Figures.

STYLE. The general style of papers previously published by THE OHIO JOURNAL OF SCIENCE should be employed, and can be determined by reading recent issues of THE JOURNAL. Manuscripts should be typewritten with margins of 2.5 cm (1 inch) on all sides, and 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 editing decisions with regard to style. Primary text reference should use the International System of Units in all cases, with parenthetical reference to the style. The title must be typed in upper and lower case letters as it will appear in the table of contents, and must be organized according to the following format:

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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, a unique description 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 for whom thanks are due for assistance rendered in completion of the research shall be indicated in this section. A brief description of the contribution of the author(s) 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:


Abbreviation of journal titles should be supplied by the author, and should follow the CBE Style Manual form. References in the text are 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 to 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 OHIO 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, double-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 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 paragraph number of the 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 drafted so as to ensure that it will be legible 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 submission and acceptance. A footnote to the 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 OHIO JOURNAL, or by the CBE Style Manual, 5th ed., should be addressed to the editor.
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