Information for Authors
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Papers considered for publication in the *Proceedings of the Iowa Academy of Science* shall be the results of original investigation. They will be judged on the basis of their contribution of original data and ideas or interpretation. Papers from non-members will be accepted only upon the vote of the Editorial Committee.

Articles submitted should be clear and concise. Close attention should be given to accuracy in spelling, grammar, and the use of standard abbreviations. Paragraphing, headings, figures, and tables should be in conformity with the instructions given below. Manuscripts are to be typed on good quality bond paper, 8½ by 11 inches, on one side only. Mimeographed or duplicated material is not acceptable. All copy should be double-spaced and have wide margins. An exact copy of the manuscript should be kept by the author, since the copy submitted will not be returned with the galley proof. The sequence of material as submitted should be: title page, abstract, the manuscript proper, references, tables, figure legends, and figures. These pages should be numbered consecutively in the upper righthand corner. Fasten with paper clips; do not staple.

The TITLE PAGE should include the title, author’s name, the laboratory or institution of origin, complete address for mailing proofs, and a running head of not more than thirty-five letters and spaces. It is recommended that titles be short, preferably not more than seventy characters. Abstracting and bibliographic services request that titles be concise and specific, and we feel that the *Proceedings* should cooperate.

The ABSTRACT should be informative, concise, and complete in itself without reference to the body of the paper. It should be suitable for the abstracting journals without rewording. Give what was done, what was found, and what was concluded in not more than two hundred words.

The HEADINGS for the main subdivisions should be centered and typed in capitals. Second-order headings should be typed flush to the left margin with major words beginning with capitals and should be underlined. When three types of headings are required, the third-order headings are typed with paragraph indentation, have only the initial letter of the first word capitalized, and are underlined. They end with a period, and the text follows on the same line.
FOOTNOTES should be used sparingly. Those that are necessary should be numbered consecutively and typed at the bottom of the pages on which they occur.

ACKNOWLEDGMENTS to granting agencies, etc., should be made as a footnote to the title. Acknowledgments to individuals should be made at the end of the text, immediately preceding the references.

Only the REFERENCES actually cited should be listed. In the body of the paper these references should be made in one of two ways. They may be by author, followed by year of publication, in parentheses, in which case the list of references is given alphabetically by first author. Or, the references may be numbered serially, in parentheses, and listed in the same order at the end of the manuscript. Each citation should be complete, consisting of author, year of publication, volume, and inclusive pages. The trend in many journals is to omit the title of the article, and we feel that this conservation of space is desirable. The form chosen should be used consistently.

Book references should include author, year, title, publisher, city of publication, and inclusive pages. Citations such as "unpublished data," "personal communication," etc., should not be listed in the references, but noted in the text in parentheses.

Each TABLE should be typed on a separate page. The table number (arabic) and title go at the top of the page. The information contained in the table should not duplicate material in the text or illustrations.

A FIGURE LEGEND should be provided for each diagram, graph, map, and photograph. All should be referred to as figures and numbered with arabic numerals. The legends should never be incorporated in the figures; they should be typed on a separate page following the tables.

Be sure that each figure and table is referred to in the text. Indicate the approximate location as follows:

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Insert Figure 1 about here
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Illustrations should be identified on the margin with the figure number, author's name, and abbreviated title of the paper. If it is necessary for this identification to be on the back, it should be at the edge and care should be taken not to mar the figure for
reproduction. When necessary, top of the figure should be indicated.

LINE DRAWINGS should be made with India ink on heavy white drawing paper or blue tracing cloth. Keep in mind the dimensions of the page (4 by 7 inches), making allowance for the figure legend. It is suggested that the author make a rough sketch of the content of his figure and then design it to fit the page. A good size for the drawing is twice that desired for the printed figure, with all lettering and line thicknesses similarly enlarged. All drawings which are to be reduced to a given size should be drawn and lettered to the same scale.

Photographic copies of drawings are preferable to originals. In no event should drawing or photographs submitted be larger than 8 by 14 inches. When larger original drawings are necessary to secure accuracy, the author should have them photographed. All PHOTOGRAPHS should be sharp, contrasty, and have a glossy finish.

Chemical structural formulas and process flow diagrams should be kept to a minimum and should be drawn for reproduction as line cuts.

When it is desirable to indicate magnification in photo-micrographs or drawings, the scale in microns (or other suitable units) should be drawn directly upon the figure. Otherwise, the actual magnification should be given, so that corrections can be made for reduction.

ALL LETTERING should be in India ink and meticulously prepared. It should be sufficiently large that it will be at least 1 mm. high on reduction. Freehand lettering is unacceptable, and for reproduction as cuts ordinary typewriter script can not be used.

GALLEY PROOFS will be sent to the author, usually in July, August, or September. These should be read carefully and returned promptly to the editor. Alterations should be limited to typographic and factual errors. Engraver's proofs and page proofs will be sent only upon request.

The following list gives the approved style manuals for the various sections of the Proceedings. Any questions of style can be referred to the appropriate style manual for the discipline covering the topic of the paper.

BIOLOGICAL FIELDS: Style Manual for Biological Journals
AIBS
2000 P. Street, Washington, D.C.
CHEMISTRY: “Notice to Authors” in Feb. 5th, May 5th August 5th and November 5th issues of Journal of American Chemical Society.

GEOLOGY: Suggestions to Authors of the Reports of the United States Geological Survey. Supt. of Documents, Washington, D.C.

PHYSICS: American Institute of Physics Style Manual, American Institute of Physics, 335 E. 45th St., New York 17, New York

PSYCHOLOGY: Publication Manual of American Psychological Association