

Missouri Academy of Science CALL FOR PAPERS for 2007 Annual Meeting
Missouri Western State University -- April 20 & 21, 2007

The Missouri Academy of Science was organized in 1934 to promote cooperative interaction among scientists in Missouri, to encourage public interest in scientific activities, and to provide opportunities for scientists to discuss their work, especially when it relates uniquely to Missouri and to its scientists. At its annual meeting in April Scientists meet in large joint sessions and in small specialized groups to present their results and ideas with an option of having abstracts of their papers published in the *Transactions*, an annual publication of the Academy with worldwide distribution.

Submission of Titles and Abstracts:

The annual meeting is open to contributed papers. Presentations will normally be limited to either 15 or 20 minutes including discussion with the variation in time being determined by each section. An electronic version (Microsoft Word) of the abstract must be sent via email to Paula Macy at macy@cmsu.edu. The Business Office should receive on or before February 9, 2007 a hard copy of the abstract, along with the pre-registration form, in order to be included in the meeting program. Authors wishing to have their abstract published in the *Transactions* should send the \$12.50 fee along with the abstract.

Authors are encouraged to indicate their preference for an oral or poster presentation. While requests will be strongly considered, the final selection of the presentation method is at the discretion of the Section Chair. Section Chairs also have the right to REJECT an abstract for publication. In such cases, reasons will be provided and the publication fee of \$12.50 will be refunded.

The Section Chair will provide schedules for oral sessions and instructions for poster sessions to participants about one month after notice of acceptance of paper.

Policies on Abstracts:

The Academy is interested in achieving a high quality of presentation. In addition, since the abstract will be considered for publication in the *Transactions*, it is critical that the abstract be a complete and appropriate representation of the research activity. Guidelines for preparing a quality abstract are given below in TYPING and LAYOUT.

The Section Chair will review each abstract for style, clarity, and content. When necessary, the Section Chair will edit the abstract and return it to the author for revision before acceptance and publication in the *Transactions*. Thus, it is critical that the guidelines be followed. The revised abstract must be returned to the Section Chair by March 1.

The Business Manager will prepare a handout of all accepted abstracts for distribution to those attending the meeting.

TYPING AND LAYOUT

Make a quality abstract.

The abstract should be typed on Microsoft Word using Time New Roman and a font of 12 with 1-inch margins. The abstract should be at least 200 words but no longer than 280 words (including authors, departmental names and university names) and be singled spaced. The abstracts may either be typed directly on the ABSTRACT TRANSMITTAL FORM or on a clean sheet of paper. Use single-spacing with no margin at the top or sides keeping all materials within the 6.5 by 3-inch space. Additional copies of the form may be obtained by writing to the Missouri Academy of Science, Attn: Paula Macy, W.C. Morris 206A, University of Central Missouri, Warrensburg, MO 64093 or by emailing Paula at macy@cmsu.edu.

Use printer (letter quality or near letter quality) with a good quality ribbon for needed contrast. The abstract may be photocopied for publication in the *Transactions*.

Type the last name and initials of the author(s), the department or unit, and the affiliated institution or industry as shown in the example. Do not abbreviate department and institution names. **Do not** give city, state or zip code. Use punctuation as shown.

The title written in CAPITAL LETTERS should begin two (2) spaces after the period following the institution name. Do not use abbreviations in the title. The title needs to be descriptive, as it will often be referenced alone. Edit it carefully keeping it to few key words. Ten words is a good goal.

Begin with the purpose or specific objectives of the study. This can usually be done with one or two sentences, and its major purpose is to focus the research effort on a given situation or problem.

Include a brief statement of the methods or approach used to achieve the objective. The methods should emphasize procedures that give credibility to the study. Factors such as environmental conditions, sample size, replications, and specialized techniques may be highlighted.

Summarize the results by pointing out major findings. Use quantitative terms wherever possible. For example, instead of writing "the high rate of exposure caused significantly more lesions," write "exposure to 12 units caused 34% ($p < 0.05$) more lesions than exposure to 4 units."

State the conclusions or potential ramifications stemming from the results. The interpretations should be in response to the first sentence of the abstract. It is not appropriate for MAS Senior Division abstracts to conclude, "The results will be discussed."

Indicate the source of research support, if applicable, at the end of the text.

Use abbreviations and symbols that are standard for the discipline. Spell out names of compounds in full at the first mention followed by the abbreviation in parentheses so the

compound can be abbreviated when mentioned again. Identify organisms by scientific name underlining genus and species.

ABSTRACT EXAMPLE:

*Cook, N.H., E. Blackwell, A.D. Gasking and J.T. Clay. Department of Natural Sciences and Mathematics, Lincoln University. INVITRO EFFECTS OF METHOXYETHYL CARBAMATE ON CHINESE HAMSTER FIBROBLASTS. Our previous studies have revealed the mutagenic potential of methoxyethyl carbamate (MEC) using dosages between 1 and 1000 ug/ml. This study was conducted to ascertain the effects of lower dosage of MEC on growth and chromosomal aberrations of DON Chinese hamster fibroblasts. Cultures were treated for 3 hr with serum-free McCoy's 5a medium containing an 8-9 cofactor mix and MEC at 0 (control), 0.01, 0.1, and 1 ug/ml. Cells were then grown in McCoy's 5a medium with 10% fetal bovine serum, and metaphase spreads were prepared at 24 hr post-treatment. Growth data, assessed by a metaphase-index method, showed no significant difference ($p < 0.05$) between MEC treatments and controls. Cells at 1 mg/ml showed 20 more numerical aberrations ($p < 0.05$), but other treatments were not different from the control. All dosages of MEC produced a 2- to 3- fold increase in structural aberrations and a 15 to 50% increase ($p < 0.05$) in cells with chromosomal breaks, with the isochromatid types being most frequent. Mutagenic activity of MEC tends to be concentration dependent over a broad range. Supported by NIH/DRR RR08202.

SUBMISSION OF ABSTRACT

Proofread your abstract carefully for accuracy before you mail it. Fill in **ALL** information requested on the Transmittal Form for Abstract.

Mail one (1) copy of the abstract, the registration form, the abstract publication fee of \$12.50 (if publishing), and membership application form (for nonmembers) to Missouri Academy of Science, W.C. Morris 206A, University of Central Missouri, Warrensburg, MO 64093. Email an electronic version (Microsoft Word) of the abstract to Paula Macy at macy@cmsu.edu. All abstracts, fees and forms should be mailed on or before the ***DEADLINE DATE OF FEBRUARY 9, 2007***. This is important for scheduling and abstract reproduction for the annual meeting and publication in the *Transactions*.

The \$12.50 publication fee (all checks or money orders payable to the Missouri Academy of Science) is necessary to offset incidental and publication costs. Authors electing not to pay the \$12.50 fee may submit abstracts and present papers, but their abstracts will not be published in the *Transactions*.

Publication of Papers:

Authors desiring to submit full-length papers to be considered for publication in the *Transactions* should submit four (4) copies to the Missouri Academy of Science, **Missouri Academy of Science, Attn: Paula L. Macy, W.C. Morris 206A, University of Central Missouri,**

Warrensburg, MO 64093. Each submission is peer reviewed by at least two scientists in that discipline.

Instruction for the preparation of manuscripts may be obtained from the *Transactions* editor or the Academy's business office.