About the Annual Meeting

THE OHIO ACADEMY OF SCIENCE’S Annual Meeting is for academic, governmental, and industrial scientists and engineers, university and pre-college educators, and pre-college, undergraduate, and graduate students, and interested lay citizens in the Ohio region. Annually the several hundred scientific presentations are complemented by workshops, symposia, and an All-Academy Lecture.

Call for Papers

WHATSOEVER YOUR SCIENTIFIC INTERESTS this Call for Papers is your invitation to participate in the Annual Meeting of The Ohio Academy of Science to be hosted by Bowling Green State University on April 14, 2018. Two basic options are available to present papers: (1) professionals, college students of all levels, and pre-college students who have completed research may submit an abstract; abstracts must contain results. (2) College undergraduates only, may submit an Undergraduate Research-in-Progress Summary or an abstract if it includes research results.

All abstracts and summaries will be peer-reviewed. Acceptable abstracts and summaries will be published in the Program Abstracts issue of The Ohio Journal of Science to assure that researchers across Ohio, elsewhere in the United States, and in dozens of foreign countries will have access to your work. The Journal also will publish Undergraduate Research-in-Progress Summaries. Symposia, workshops and field trips may be arranged by special permission.

Research papers are welcome in ALL FIELDS of science, engineering, technology, education and their applications.

Our Host

BOWLING GREEN STATE UNIVERSITY provides experiences that enhance lives. Students are prepared for lifelong career growth, lives of engaged citizenship and leadership in a global society. U.S. News and World Report names BGSU as one of the top public universities nationwide with a strong commitment to first-year programs that lead to success. BGSU is a public research university and has been identified as a nationally ranked public university by U.S. World News and Report. In addition, BGSU is ranked by Business Insider as the most affordable of the top-quality colleges in Ohio.

We emphasize experiential learning through high impact programs that support our outstanding undergraduate education. A key component of BGSU’s commitment to active learning and leadership is the BG Experience programs that introduce students to the multitude of opportunities that lie before them. Students can study around the world. They can join learning communities. They can do research/scholarly/creative projects under the guidance of a faculty mentor. They can get involved in more than 300 activities. They can choose from more than 200 different majors.

Within our transformative learning community, we build a welcoming, safe and diverse environment where the creative ideas and achievements of all can benefit others throughout Ohio, the nation and the world.

Visit bgsu.edu for additional information.

ON THE WEB

Please use this brochure or retrieve forms and instructions from: http://www.ohiosci.org/am-2018
**How to prepare an ABSTRACT for peer review.**

**AN ABSTRACT MUST BE PREPARED** for each paper to be presented at the Annual Meeting. An abstract is a concise summary of the educational, scientific, engineering, or technological research contents of the paper, and not merely a general description of what the paper is about. Tell what the specific facts are, not what they are going to be when you talk. **Avoid personal pronouns.** Quality abstracts are highly structured and contain all of the following elements: (1) background or introduction including goals, objectives, purpose, problem and hypothesis, (2) methods and materials, (3) results, data or observations, and (4) discussion or conclusion(s). Phrases like "will discuss, will review, will talk about, or will present" are unacceptable in an abstract. All important facts should be stated with brevity, but not such sparing use of words as to leave ambiguity. Abstracts should be 250 words or fewer. Tables and graphs should not be included. New techniques or new apparatus and their functions should be mentioned. New constants, critical data or formulae should be included. Names of new species should not be listed in the summary, but use full scientific names for all organisms. **Use the term “significant” only if you state the statistical test(s) used.** Always define the sample(s), population or trials (N=?). **NEVER use the phrase “Results show” without first stating the results.** The value of abstracts is real and considerable, not only for those in attendance, but also for others unable to attend. All abstracts will be peer-reviewed. Acceptable (**Expect to complete several drafts before submission.**) final abstracts—to be submitted by Email when requested—will be published in the program abstracts issue of *The Ohio Journal of Science* and shall be presented by the first author. The first author of multi-authored abstracts must obtain permission from all authors to submit the content of the abstract.

**How to prepare a College Undergraduate Research-in-Progress Summary.**

**IN ORDER TO ACCELERATE** the entry of college undergraduate students into the professional world of education, science, engineering, technology, or their applications, The Ohio Academy of Science has adopted the following policy and procedures to accept and publish summaries of college undergraduate research-in-progress in lieu of abstracts for the Annual Meeting. Papers, based on the student's research, may be presented in either podium or poster format. Undergraduates whose research is unfinished by the abstract submission deadline may submit an Undergraduate Research-in-Progress Summary in lieu of an abstract. This summary is a statement following the general typing and submission instructions for an abstract. **Avoid personal pronouns.** The summary shall contain the following elements in this order: (1) background or introduction including goals, objectives, purpose, problem and hypothesis, (2) methods and materials, and (3) if available, initial observations. Phrases like "will discuss, will review, will talk about, or will present" are unacceptable in a summary. All important facts should be stated with brevity, but not such sparing use of words as to leave ambiguity. Summaries should be 250 words or fewer. Tables and graphs should not be included. New techniques or new apparatus and their functions should be mentioned. New constants, initial critical data, if available, or formulae should be included. Names of new species should not be listed in the summary, but use full scientific names for all organisms. State the statistical test(s) you plan to use and always define the expected sample(s), population or trials (N=?). **NEVER use the phrase “Results show” without first stating the results.** The value of summary is real and considerable, not only for those in attendance, but also for others unable to attend. Summaries shall be presented by the college undergraduate first author. It is the responsibility of the first author of multi-authored summaries to obtain permission from all authors and research advisor(s) to submit the content of the summary. Undergraduate Research-in-Progress Summaries shall be reviewed for conformity to general format but shall not be considered a peer-reviewed scientific publication. Summaries shall not be accepted for publication without a signed statement from the advisor(s) whose name(s) appear in the summary, vouching for the accuracy of the summary and, barring some compelling reason, assuring that the undergraduate will present the work, including results, analysis of results, and any conclusions available, at the Academy's Annual Meeting. Acceptable (**Expect to complete several drafts before submission.**) final summaries—to be submitted by Email when requested by the Academy—will be published in the Program Abstracts issue of *The Ohio Journal of Science* and shall be identified as a summary by (including the advisor’s name in parentheses).

**Online Abstract Submission is due by Monday, November 13, 2017**
127th Annual Meeting of the Ohio Academy of Science

Formatting and Submission Instructions

TYPE TITLE IN CAPITAL LETTERS. Continue typing on the same line with name(s) of presenter(s) typed First, Middle Initial, and Last in UPPER/lower case. Do not type your last name in all capital letters. Follow each authors name with Email address. Then, on the same line, add the complete and accurate mailing address and ZIP code for the first author/presenter. Only the first author/presenter should have a complete mailing address. All others should be listed with their affiliation if different. All may have emails listed. DO NOT CENTER THE LINES OF YOUR ADDRESS. Type flush left, ragged right. Do not indent.

Skip one line space and type abstract DOUBLE spaced to make it easier for peer reviewers and the Editor. DO NOT EXCEED 250 words. ABSOLUTELY DO NOT EXCEED ONE PAGE. Abstract must be one paragraph. Use 12 point Times New Roman, Century Schoolbook, Minion or other common serif font.

Content of Abstract

Please include one or two sentences on each of the following:

• background or introduction including goals, objectives, purposes, problem and hypothesis
• methods & materials
• results, data or observations
• discussion or conclusion(s)

Content of Undergraduate Research-in-Progress Summary:

Please include one or two sentences on each of the following:

• background or introduction including goals, objectives, purposes, problem and hypothesis
• methods & materials
• initial observations, if available

Online Submission by Monday, November 13, 2017 to:

ALL ABSTRACT SUBMISSION WILL BE DONE ONLINE

Instructions for Online Submission of an Abstract or Research-in-Progress Summary:

1. If you are not an OAS member already, go to http://oas.memberclicks.net/become-a-member to become a member of The Ohio Academy of Science.

2. Sign-in to your membership and submit your abstract using our Abstract Submission Form.

QUESTIONS? 614.488.2228 or by email info@ohiosci.org

Online Abstract Submission is due by Monday, November 13, 2017