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, several hundred scientific presentations are complemented by workshops, symposia, and an All-Academy Lecture.

**Call for Papers**

Whatever 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 Cleveland State University on April 18, 2020. Professionals, college students of all levels, and pre-college students who have completed research may submit an abstract. The abstract submissions must contain results.

Acceptable abstracts will be published in the Program Abstracts issue of *The Ohio Journal of Science* (OJS). This publication assures that researchers across Ohio, elsewhere in the United States, and in dozens of foreign countries will have access to your work. 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.

**ON THE WEB**

Please use this brochure or retrieve forms and instructions from: [http://www.ohiosci.org/annual-meeting-2020/](http://www.ohiosci.org/annual-meeting-2020/)

Our Host

**Cleveland State University** is a public research institution located in the heart of downtown Cleveland. Our urban campus is home to Cleveland State University’s engaged learning approach, where students and ideas connect in the classroom, the real world and beyond. With more than 16,300 students, 175+ academic programs and the largest footprint in downtown Cleveland, CSU is Northeast Ohio’s only public, four-year urban campus, and is dedicated to helping students succeed while preparing for life after graduation. Engaged Learning connects CSU students with 3,000 co-ops, internships and research training opportunities with employers and healthcare institutions ensuring they graduate fully prepared to succeed in their chosen professions.

CSU has strengthened its ties to Cleveland through a series of forward-thinking partnerships. Campus International School and MC2STEM High School provide pathways to college with the Cleveland Metropolitan School District. CSU serves unmet health-care needs in our community through the Partnership for Urban Health. According to the Brookings Institution report, Ladders, Labs, or Laggards? Which Public Universities Contribute Most, CSU ranks in the 5th percentile in the U.S. among 342 public universities that provide upward mobility and conduct impactful research; CSU is the only university in Ohio in the “Best of the Best” category.

CSU has a diverse student body and a vibrant campus. Recent additions to the CSU campus include the Center for Innovation in Medical Professions, designed as a collaborative space for health sciences, a striking new addition to the Washkewicz College of Engineering, and a new School of Film & Media Arts.

Visit [www.csuohio.edu](http://www.csuohio.edu)
128th Annual Meeting of The Ohio Academy of Science
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 abstract 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 final abstracts 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.

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)

Online Submission by Monday, November 18, 2019 to:
Please use the Annual Meeting Submission form found here:

http://www.ohiosci.org/annual-meeting-2020

QUESTIONS? 614.389.2182 or by email info@ohiosci.org