

CALL FOR PAPERS



April 1-2-3, 2005

Hosted by

BOWLING GREEN STATE UNIVERSITY

for details see <http://www.ohiosci.org>

Abstract Deadline: Postmarked by **November 8, 2004**

**THEME: *Ecosystem Changes in the Great Lakes:
Impacts from Every Direction***

About the Annual Meeting of The Ohio Academy of Science

THE OHIO ACADEMY OF SCIENCE'S Annual Meeting is for academic, governmental, and industry 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, an All-Academy Lecture, and field trips on local geology and plant sciences.

Call for Papers

WHATEVER YOUR SCIENTIFIC interests this *Call for Papers* is your invitation to participate in the 114th Annual Meeting of The Ohio Academy of Science to be hosted by Bowling Green State University on April 1-2-3, 2005. Poster and podium sessions will be on Saturday, April 2. 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; (2) college undergraduates only, may submit an Undergraduate Research-in-Progress Summary. Undergraduates also may submit an abstract if research results are included. 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.

On the Web

Please retrieve forms and instructions from:

<http://www.ohiosci.org>

Our Host

BOWLING GREEN STATE UNIVERSITY (BGSU) offers an outstanding educational experience. At BGSU, academic learning is paired with a campus wide commitment to values exploration and prepares graduates to go out into the world as critical thinkers, skilled communicators, and ethical leaders, in all areas of study. This vision uniquely distinguishes BGSU as a public university with a unified purpose.

BGSU combines the personal atmosphere of a small college with the opportunities of a major university. With more than 200 undergraduate majors and programs, BGSU's learning community provides high-quality faculty members who care about their students, an appreciation for diversity, and the latest in information technology. About 7,000 of BGSU's 20,200 students live on campus. BGSU attracts students who balance academic excellence with involvement in nearly 325 student organizations. Committed to ensuring that every student succeeds, Bowling Green challenges and supports students, both in and out of the classroom. Integral to campus life are the core values: respect for one another, cooperation, intellectual and spiritual growth, creative imaginings, and pride in a job well done.

BGSU's personal atmosphere is enhanced by its physically compact campus located within the Bowling Green community. Most restaurants and businesses are within walking or biking distance of residence halls. Bicycles are a popular means of transportation, but all students are permitted to have cars.

OF THE 20,200 STUDENTS enrolled at BGSU, 17,300 are undergraduate students, Ten percent come from outside the state of Ohio (including more than 540 from other countries), and more than 1,680 are African American, Native American, Hispanic, or Asian American. Students are actively involved outside of class, participating in student organizations and service learning opportunities and enjoying some of the more than 400 cultural and special events that are offered each month.

Residence halls reinforce the learning environment with a computer laboratory for each residence complex and one computer available for every 23 resident students. Every residence hall room has high-speed Ethernet connections to the University's computing backbone.

BGSU's Graduate College offers sixty-six master's degrees, two specialist degree programs, and sixteen doctoral programs.

Location

THE CITY OF BOWLING GREEN, Ohio, population 29,600 (including students), is located in northwest Ohio about 20 miles south of Toledo. It is within a comfortable driving distance of all major cities in Ohio and is within an easy commute from nearby towns.

PLEASE COMPLETE AND RETURN THE SUBMISSION FORM
POSTMARKED BY MONDAY, NOVEMBER 8, 2004.

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. Quality abstracts are highly structured and contain all of the following elements: (1) background or introduction including goals, objectives, purpose, 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; use full scientific names for all organisms. 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 --**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**. It is the responsibility of the first author of multi-authored abstracts to obtain permission from all authors to submit the content of the abstract.

First authors must be members to submit and present at the Annual Meeting of The Ohio Academy of Science.

Please JOIN or RENEW TODAY!

INSTRUCTIONS FOR SUBMITTING AN **ABSTRACT**



Content of Abstract:

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

- **background or introduction including goals, objectives, purposes, and hypothesis;**
- **methods & materials;**
- **results, data or observations; and**
- **discussion or conclusion(s).**

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 and type abstract DOUBLE spaced to make it easier for peer reviewers and the Editor. **DO NOT EXCEED 250 words. DO NOT EXCEED ONE PAGE.** Abstract must be one paragraph. Use 12 point Times New Roman type. **LASER PRINT IS PREFERRED. DO NOT FOLD YOUR ORIGINAL OR COPIES.** Mail FLAT with cardboard protection. **PLEASE COMPLETE AND INCLUDE THE SUBMISSION FORM.**

Mail FIRST CLASS (postmarked) by Monday, November 8, 2004 to:
The Ohio Academy of Science
PO Box 12519
Columbus OH 43212-0519

PLEASE INCLUDE THE FOLLOWING:

1. Completed submission form for the **first** author who will present. **EACH ABSTRACT MUST HAVE A SEPARATE SUBMISSION FORM. Enclose one additional copy.**
2. Submission and membership fee (check payable to The Ohio Academy of Science). The submission fee includes the registration fee for the first author **ONLY** and is non-transferrable.
3. Original abstract typed double spaced within 1" or wider margins on **8.5" x 11" WHITE PAPER** plus **one** identical xerographic copy.
4. Signed **Consent & Release Form**. <http://www.ohiosci.org/consent.pdf>
5. To acknowledge receipt of your abstract please include a self-addressed, stamped postcard. Only one postcard per envelope is needed.

CHECKLIST:

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- Submission Fee
- Original submission plus one copy
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For more forms phone: 614/488-2228 or outside 614, toll free, if needed, 1-800-OHIOScience



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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. **The summary shall contain the following elements:** (1) background or introduction including goals, objectives, purpose, 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; use full scientific names for all organisms. 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 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.

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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.

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Content of Summary:

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- **methods & materials;**
- **initial observations, if available.**



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- Submission and Membership Form plus one copy
- Submission Fee
- Original submission plus one copy
- Signed **Consent & Release Form** available at <http://www.ohiosci.org/consent.pdf>
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QUESTIONS? 614/488-2228 or outside 614, toll free, 1-800-OHIOScience



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