2003-04

Back Matter

The Ohio Journal of Science. v103, n1 (March, 2003 - April Program Abstracts), 999
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THE OHIO ACADEMY OF SCIENCE
Registration Form
112th Annual Meeting
April 4-5-6, 2003
Hosted by the University of Findlay
Advance registration must be received by March 20, 2003

ALL MEETING ATTENDEES MUST REGISTER: Access to sessions by name tag only. Name tag, information packet and receipt will be available at the meeting. Please return the completed registration form along with the appropriate fees to the address printed below.

STUDENTS, SPOUSES, OR RELATIVES: A special discount schedule has been approved to promote and encourage participation of undergraduates, pre-college students, non-science spouses or relatives. All students, non-science spouses, parents or relatives must register using a separate form. This registration does not include membership or meals, which must be paid separately on this form.

AFTER MARCH 20
NON-SCIENCE SPOUSE, PARENT OR RELATIVE OF FIRST AUTHOR $10 $15

*Discount Rate for students who are not first author:
(Does not include membership)
1-4 from same institution $20 $25
5-10 from same institution $15 $20
11 or more from same institution $10 $15

Please use a SEPARATE REGISTRATION FORM for each person. Copy this form as needed.

PLEASE PRINT OR TYPE
Circle: Ms. Mrs. Mr. Dr.
Name ____________________________
First Middle Last
Job Title __________________________
School, Organization, Agency, Institution, or Employer __________________________

Is the following a home address? ___ Yes ___ No
Students MUST use home, dorm or apartment address.
Address ________________________________________________
City ___________________ Zip ________ County ________
Work Phone (________) ________________________________
Home Phone (________) ________________________________
FAX (________) ________________________________
Email ________________________________

MAIL FORM WITH PAYMENT TO:
The Ohio Academy of Science
PO Box 12519
Columbus OH 43212-0519
FAX 614/488-7629

Registration Fees
Please check appropriate categories. One fee covers ALL THREE DAYS. Payment must be received by March 20, 2003 to avoid higher rates. On-site registration will be accepted at the higher rate by credit card or check ONLY. First authors have pre-paid registration when submitting their abstracts and DO NOT NEED TO return this form unless they need meals. First authors are already registered for the meeting.

CURRENT MEMBER REGISTRATION RATE

<table>
<thead>
<tr>
<th>Category</th>
<th>Professional</th>
<th>Retired</th>
<th>Student</th>
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NON-MEMBER PROFESSIONAL AND RETIRED REGISTRATION RATE

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AFTER MARCH 20

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NON-MEMBER PRE-COLLEGE AND COLLEGE STUDENT RATE

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MEALS (by preregistration)

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<th>Saturday Lunch</th>
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*See table at left for more information.

NON-MEMBER PROFESSIONAL AND RETIRED REGISTRATION RATE

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NON-MEMBER PRE-COLLEGE AND COLLEGE STUDENT RATE

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TOTAL ENCLOSED $_______

METHOD OF PAYMENT

NO REFUNDS AFTER March 20, 2003.

Return checks subject to a $30.00 return fee.

Only registrations paid by Purchase Order, VISA, or MasterCard will be accepted by FAX at 614/488-7629.

☐ This copy confirms a FAXed registration
☐ Check enclosed payable to The Ohio Academy of Science
☐ Purchase order enclosed No. __________________________
☐ Online payment option www.merchantamerica.com/ohiosci
☐ Please charge my credit card

| Card Number | VISA | MASTERCARD |
|_____________|_______|___________|

Exp. Date __/__/____

Signature ________________________________
REGISTRATION POLICIES
The Ohio Academy of Science
112th Annual Meeting
Hosted by The University of Findlay
Findlay, Ohio
April 4-5-6, 2003
Advance registration must be received by March 20, 2003
All attendees must register.

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<table>
<thead>
<tr>
<th>Spouse, parent or relative of first author</th>
<th>After March 20th</th>
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<tr>
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<td>$10</td>
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<tr>
<td>Discounted Rates for students who are not first author:</td>
<td>$15</td>
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<td>(Does not include membership)</td>
<td>$20</td>
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Copy the form on the reverse side as needed.

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Columbus OH 43212-0519

FAX 614/488-7629 for credit card or purchase order.

Online payment option
www.merchantamerica.com/ohiosci

PREREGISTRATION DEADLINE: March 20, 2003
Author's Instructions for Preparation of Manuscripts

The Ohio Journal of Science considers for publication solicited Book Reviews and Research Reviews, and unsolicited Brief Notes and Research Reports. Solicited submissions will be requested by the editor or member of the editorial board. Book reviews will be requested of experts in the subject matter of the book to be reviewed. Research Reviews will be requested to serve as extensive surveys of the literature of an area of science in which Academy members have an interest.

Unsolicited submissions, in the form of presentations of quantitative or qualitative data pertinent to any of the divisions of the Academy listed inside the front cover, will be considered for peer review. Brief notes are manuscripts that are less than 2 printed pages (approximately 6 typed pages) and contain no more than one table, figure or other type of illustration. The editor will identify papers which meet these criteria as Brief Notes if not already categorized as such by the author. Research Reports are those papers which are longer than 2 pages or contain more than one illustration.

All manuscripts will be organized as follows:

**Page 1**
- Title, Author(s), Running Head, Abstract

**Page 2 and remainder**
- Introduction,
- Materials and Methods,
- Results,
- Discussion,
- Acknowledgments,
- Literature Cited,
- Tables, Figure Legends, Figures

**STYLE.** The CBE Manual for Authors, Editors, and Publishers, 6th ed. is used for editorial decisions with regard to style. Manuscripts should be typewritten using 1 inch margins on 8.5 x 11 inch paper. Text should be left-justified using elite print (twelve characters per inch). Three copies should be submitted. Manuscript should be double-spaced throughout, including the title and abstract. Arabic numerals should be used in preference to words when the number designates anything that can be counted or measured (7 samples, 43 species). One exception to this use is that numerals are not used to begin a sentence (Twenty-one species were found in . . . ).

The 2nd exception is when 2 numeric expressions are adjacent in a sentence. Since tables must be individually typeset, consolidation of data into the smallest number of tables is encouraged. A horizontal double underline should be made beneath the title of the table, and single underlines should be made the width of the table below the column headings and at the bottom of the table. Do not use vertical lines, and do not place horizontal lines in the interior of the table. Footnotes should be used to clarify possible questions within the table, and should be noted by asterisks, daggers, or other symbols to avoid confusion with numerical data.

**TITLES, AUTHOR(S), AFFILIATION(S).** The first page of the manuscript should contain the title, author(s) name(s), the affiliation of the author(s) at the time the research was carried out, a shortened title (running head), and the abstract. The title must be typed in upper and lower case letters as it will appear when typeset. Name(s) of the author(s) should be typed in capital letters before the title. The address (department, institution, city, state, postal code, country if not USA) should appear below the name of the author(s). If more than one institution is to be credited, they should appear in the order of the authors' affiliation. A running head of not more than 250 words or fewer should be made the width of the table below the column headings and at the bottom of the table.

**ABSTRACT.** The abstract should summarize the main conclusions and any new methods or procedures critical to the results of the study. It should be 250 words or fewer.

**INTRODUCTION.** The introduction should describe the knowledge that gave rise to the question examined by, or the hypothesis posed for the research.

**MATERIALS AND METHODS.** This section should describe the research design, the methods and materials used in the research (subjects, their selection, equipment, laboratory or field procedures), and how the findings were analyzed.

**RESULTS.** The text of the results should be a descriptive narrative of the main findings, of the reported study. This section should not list tabulated data in text form. Reference to tables and figures included in this section should be made parenthetically in the text.

**DISCUSSION.** This section should compare and contrast the data collected in the present study with that previously reported in the literature. Unless there are specific reasons to combine the two, as explained by the author in the letter of transmittal, Results and Discussion should be two separate sections.

**ACKNOWLEDGMENTS.** Colleagues and/or sources of financial support to whom thanks are due for assistance rendered in completion of the research or preparation of the manuscript should be recognized in this section rather than in the body of the text.

**LITERATURE CITED.** References to scientific literature should be arranged alphabetically by first author's last name using the Name/Year (N-Y) method as described in the CBE Manual.

Journals

- Form of citation: (Voet and Voet 1990)

Multiple author citation: (Steiner and others 1992)

**FOOTNOTES.** Text footnotes should not be used with the following exceptions. A footnote to the title will be added editorially to state the dates of manuscript submission and revision. A footnote to name(s) of author(s) may be used to indicate present address different from that at which the research was done, or to indicate the author to whom inquiries should be directed. All other material or comments must be incorporated into the text. Literature Cited should not be inserted as footnotes. Footnotes to tables are permissible, and are encouraged to promote clarity.

Attention to the above instructions will minimize the need for revision and editorial correction, and will shorten the time from submission to publication. Any questions which are not answered by these instructions, or by consulting the CBE Manual for Authors, Editors, and Publishers, 6th Edition, should be addressed to the editor.

Dr. Isadore Newman, Editor
THE OHIO JOURNAL OF SCIENCE
Idabelle Firestone Center
41 Arch Street
Akron, OH 44304-1499 USA
Phone: 330/375-7732
inewman@uakron.edu
The Ohio State University’s Island Campus

Stone Laboratory is the Lake Erie research and teaching laboratory for the Ohio Sea Grant College Program. Located on the 6.5-acre Gibraltar Island in Put-in-Bay harbor, this facility is the oldest freshwater biological field station and research laboratory in the United States. Since its establishment in 1895, both students and professional biologists have conducted significant research focusing on the ecology of Lake Erie and the Great Lakes region.

Students earn college credit through classroom, laboratory, and field studies, while gaining a comprehensive background in freshwater systems and information on the unique environmental attributes of Lake Erie.

SUMMER COURSES 2003

All dates will be posted on web site as they are confirmed.

UPPER-LEVEL COURSES
Designed for undergraduate and graduate students in biological sciences, education, and natural resources; professional biologists, and ecologists; and biology and general science teachers.
Classes meet three days a week
TERM 1 — June 22 - July 23
  • Aquatic Entomology
  • Field Zoology
  • Ichthyology
  • Limnology
TERM 2 — July 24 - Aug. 23
  • Fish Ecology
  • Higher Aquatic Plants

OTHER
Classes meet daily for one week
NEW Field Plant Pathology (two weeks)
NEW Herpetology
NEW Nature Photography
  • Waterfowl Ecology
  • Ichthyoplankton Identification Workshop (one day)

INSTRUCTORS COURSES
Open to college and select high school students.*
Classes meet daily for one week
  • Aquatic Biology (offered four times)
  • Field-Based Oceanography
  • Insect Biology
  • Local Flora
  • Study of Birds

*To qualify, high school students must have completed their sophomore year, be 15 years of age or older, and have completed one course of high school biology prior to the beginning of the course.

INFO SESSIONS
AT THE OHIO STATE UNIVERSITY CAMPUS

Detailed information about Stone Laboratory and the Summer 2003 program will be presented on the Columbus campus on the following dates, times, and locations:

   Thursday, November 21, 2002
   Tuesday, January 14, 2003
   Tuesday, February 4, 2003
   Thursday, February 20, 2003

Enarson Hall from 10:30 – 11:30 a.m.
154 W. 12th Ave.

Stone Laboratory from 6:30 – 7:30 p.m.
Administrative Office, 1314 Kinnear Rd.

www.sg.ohio-state.edu
Updates on courses, instructors, and application materials.
THE OHIO ENVIRONMENTAL SCIENCE & ENVIRONMENTAL ENGINEERING SCHOLARSHIP PROGRAM

Website: http://www.ohiosci.org/OESEESCHOLARSHIPS.htm

Ohio Environmental Education Fund

APPLICATION
Deadline: Mail First Class. Postmarked by April 18, 2003

$1,250 two year programs and $2,500 for four or five year programs, non-renewable

These merit based, non-renewable, tuition only scholarships will be given to undergraduate students admitted to Ohio state or private colleges and universities who can demonstrate their knowledge and commitment to careers in environmental sciences or environmental engineering. Students must be in the final year of the program by the autumn term. Awardees will be selected by an Academy appointed panel.

Circle Title Ms. Mr. Mrs. First Middle Last

Home Address
City State Zip EMAIL

Home # (_______) Social Security #: ___________ Year in school by autumn term: 2nd 4th 5th

College or University

Academic major

Advisor's full name

Office# (_______)

Are you a member of an under-served population in your field of study? YES NO

If selected, are you willing to participate in annual follow-up surveys for three years after receipt of a scholarship? YES NO

May the Academy release your name and resume to potential employers? YES NO

PLEASE RESPOND TO THE FOLLOWING AND ATTACH APPROPRIATE SUPPORTING INFORMATION:
(1) Academic record with an overall GPA of at least 3.0. Your current GPA_______ on a 4.0 system. Please attach a current (full) transcript and circle the GPA. Transcript must include all courses taken to-date. Enclose an "OFFICIAL" transcript with your original signed application and unofficial copies in the 6 identical sets.

(2) Attach a maximum 2 page vita, biosketch, or resume that includes the following elements, in this order: personal information, education, employment and/or internships (basic information only), honors/awards, professional memberships, publications (full citation), presentations given and professional meetings attended, and community service.

(3) Attach an *essay describing your reasons for choosing a career in environmental science or environmental engineering and how this scholarship will help you.

(4) Attach an *essay detailing any original research, scholarship, employment and/or internships, or other unique contributions to environmental science or environmental engineering.

(5) Attach an *essay describing your extra curricular activities and participation in organizations that demonstrates your leadership and interpersonal skills and social responsibility.

(6) Attach two letters of recommendation from education or environmental professionals, addressed to Scholarship Review Committee. One must be from a faculty member at your institution.

*each essay may not exceed 1 two-sided page, double spaced, 12 point type, 1" margins

Amount Requested $________. Maximum: $1,250 for two year programs and $2,500 for four or five year programs, non-renewable. Date needed _____________. NOTE: If you are awarded a scholarship, the check will be sent to the college financial aids office. All applicants will be notified of the scholarship recipients.

I certify that all information provided is true and accurate, I authorize independent verification, and I understand that if awarded a scholarship, information contained in this application may be released to the media.

SIGNATURE DATE

Please enclose a self-addressed, stamped postcard to acknowledge receipt of your application.

QUESTIONS? Phone (614) 488-2228 • Email oas@iwaynet.net • Website: http://www.ohiosci.org

MAIL FIRST CLASS a complete, original signed copy with stapled attachments and 6 identical, two-sided, collated and stapled (please do not bind) copies (7 total) postmarked by Friday, April 18, 2003:

Environmental Science Scholarships
The Ohio Academy of Science
PO Box 12519
Columbus OH 43212-0519
A Resolution
by The Ohio Academy of Science

Advocacy for Teaching Cosmic, Geological and Biological Evolution
and Opposition to Forced Teaching of Creationist Beliefs such as "Intelligent Design"
in Public School Science Education

WHEREAS, it is a responsibility of The Ohio Academy of Science to preserve the integrity of science; and

WHEREAS, science is a systematic method of continuing investigation, based on observation, hypothesis testing, measurement, experimentation, and theory building, which leads to more adequate explanations of natural phenomena, explanations that are open to further testing, revision, and falsification, and while not "believed in" through faith may be accepted or rejected on the basis of evidence; and

WHEREAS, the theory of evolution, as presently defined, fully satisfies these criteria, especially when its teaching considers the remaining debates concerning its detailed mechanisms; and

WHEREAS, the Academy respects the right of people to hold diverse beliefs about creation that do not come within the definitions of science; and

WHEREAS, some Creationist groups are intent on imposing religious beliefs disguised as science upon teachers and students to the detriment and distortion of public education in the United States;

Therefore, Be It Resolved that because "Creation Science" and "Intelligent Design" have no scientific validity, they should not be taught as science, and further that the OAS views legislation requiring such religious views to be taught in public schools, as though these were legitimate arguments against evolution that should be included as part of a so-called balanced treatment approach, to be a real and present threat to the integrity of education and the teaching of science; and

Be It Further Resolved that the OAS urges citizens, educational authorities, and legislators to oppose the compulsory inclusion in the curricula, the state competencies or proficiency tests for science education of religious beliefs that are not amenable to the process of scrutiny, testing, and revision that is indispensable to science.

Be It Further Resolved that the OAS urges citizens, educational authorities, and legislators to include, explicitly, cosmic, geological and biological evolution in the curricula, state competencies and proficiency tests for science education.

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Revised and Approved February 28, 2000 by the Executive Committee of The Ohio Academy of Science; based on a similar resolution adopted by the Academy on April 23, 1982.

C:\My Documents\Word\Governance\EVOLRESOLUTIONFinalApprovedFeb282000.doc