Registration Form

106th Annual Meeting
April 4-5, 1997
Hosted by Bowling Green State University
Advance registration must be received by March 21, 1997.

**ALL authors, presenters and other attendees must register.**

**ALL meeting attendees:** 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, significant others or relatives:** To promote and encourage participation of undergraduates and pre-college students, any paid, registered student may bring another student (who is not an author/presenter) as a guest for $10.00. Significant others and relatives of authors/presenters attending only to listen to a presentation may also register for $10.00. **All students, significant others, and relatives must register using a separate form. This registration does not include membership or meals which must be paid separately.**

Please use a separate form for each registration; 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
ADDRESS
CITY
STATE ZIP COUNTY
HOME PHONE ( )
WORK PHONE ( )
FAX ( )
IS THIS A HOME ADDRESS? __ Yes __ No

**MAIL FORM WITH PAYMENT TO:**
The Ohio Academy of Science
PO Box 12519
Columbus OH 43212-0519
FAX 614/488-2228 (M-F: 9am-5pm)
PRE-REGISTRATION DEADLINE: March 21, 1997

**REGISTRATION FEES**
Please check appropriate categories. One fee covers **ALL THREE DAYS.** Payment must be received by March 21, 1997 to avoid higher rates. On-site registration will be accepted at the higher rate by credit card or check ONLY.

<table>
<thead>
<tr>
<th><strong>MEMBER RATE</strong></th>
<th>AFTER March 25</th>
</tr>
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<tbody>
<tr>
<td>Professional</td>
<td>$50 $60</td>
</tr>
<tr>
<td>Student or Retired</td>
<td>$25 $30</td>
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<table>
<thead>
<tr>
<th><strong>NON-MEMBER RATE (Includes membership)</strong></th>
<th></th>
</tr>
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<tbody>
<tr>
<td>Professional</td>
<td>$90 $100</td>
</tr>
<tr>
<td>College Student or Retired</td>
<td>$50 $55</td>
</tr>
<tr>
<td>Student (Age 17 &amp; under)</td>
<td>$50 $55</td>
</tr>
<tr>
<td>Student (Age 17 &amp; under) or Retired w/o The Ohio J. of Science</td>
<td>$35 $40</td>
</tr>
</tbody>
</table>

**GUEST OF PAID REGISTRANT**
Student, significant other or relative $10 $15

**MEALS (ONLY by pre-registration)**
- **Friday Dinner** $25 Available after March 21st.
- **Saturday Banquet** $25

**ADDITIONAL INFORMATION - Check if attending**
- I will attend the following Internet Sessions
  - Saturday Morning -- Beyond Surfing the Web
  - Saturday Afternoon -- Creating a Web Site

- I will attend the following Sunday field trip
  - Plant Sciences
  - Geology

**MEMBERSHIP RENEWAL**
- Family (max. 3 persons) $60
- Regular Member $50
- Retired (age 59 and over) Member w/OJS $30
- College Student $30
- Student (Age 17 & under) w/OJS $30
- Retired Member w/o OJS $15
- Student (Age 17 & under) w/o OJS $15

TOTAL ENCLOSED $ __________

**NO REFUNDS AFTER March 31, 1997.**
Return checks are subject to a $15.00 return fee.

**METHOD OF PAYMENT**
Only registrations paid by Purchase Order, VISA, or MasterCard will be accepted by FAX at 614/488-2228 (M-F: 9am-5pm).
- **Confirms a FAXed registration**
- Check enclosed payable to The Ohio Academy of Science
- Purchase order enclosed (A $2.00 processing fee will be added)
- Charge my credit card (A $2.00 processing fee will be added)

___ VISA ___ VISA ___ MASTERCARD ___
CardNumber ___________ ___________ ___________
Exp. Date __/__/____
Signature ___________________________

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Registration Policies

106th Annual Meeting
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Please use a separate form for each registration.

Please copy the Registration Form on the other side as needed.
1. Solicited Submissions - Book Reviews, Research Reviews.

2. Unsolicited Submissions - Brief Notes, Research Reports.

Page 1 - Title, Author(s), Affiliation(s), Abstract
Page 2 and the remainder - Body of the Paper in the order; Introduction, Materials and Methods, Results, Discussion, Acknowledgements, Literature Cited. Tables, Figure Legends, Figures.

The general style of papers previously published by THE JOURNAL should be employed, and can be determined by reading recent issues of THE JOURNAL. Manuscripts should be typewritten with wide margins on 21.6 x 27.9 cm (8.5 x 11 in) paper, and be double-spaced throughout including the title and abstract. The only words to be underlined are scientific names. Spell out numbers one through nine and use Arabic numerals above nine.

Extensive quotations in the text should be typed slightly indented from the other text. Footnotes should be kept to a minimum, and should be spaced from the text, not indented. When referring to tables and figures, they should be given the number in the order of their appearance in the text. References to scientific literature should be ar-

RESULTS. The text of the results should be a descriptive narrative of the main findings, both positive and negative, if the latter occurred, of the reported study. This section should not be simply a listing of the 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 consist of the comparing and contrasting of data collected in the presented study with that previously reported in the literature. A goal is to incorporate at least one literature citation and one relevant illustrative material from the results section in the first paragraph of discussion. Unless there are specific reasons to combine the two, as explained by the author in the letter of transmittal, Results and Discussion should be separate sections.

ACKNOWLEDGEMENTS. 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 ar-

FIGURE LEGENDS. Each figure must have a complete legend even though the material is described in the text. The legends should not be placed on the figure, but should be typed in order, double-spaced, on a separate sheet which precedes the figures in the manuscript. Figures should be referred to parenthetically in the text, for example (Fig. 1).

FIGURES. All illustrations are referred to as “figures,” and must be numbered consecutively. Figures may be photographs, or hand- or computer-generated line drawings in black ink. For the sake of economy, closely related illustrations should be grouped and mounted close together on white cardboard for reproduction as a single unit; however, line drawings and photographs should not be grouped together or combined in a single figure. Each figure, or collection of figures in a plate, should be identified along the top edge with name of author(s) and figure number, and on the back with name of author(s) and manuscript title.

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 a 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. In no case should literature citations be inserted as footnotes. They must be listed in the Literature Cited section. 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, by examining papers in recent issues of THE JOURNAL, or by the CBE Style Manual, 5th ed., should be addressed to the editor.
F.T. Stone Laboratory, Ohio's Lake Erie laboratory and freshwater biological field station since 1895, is located on Gibraltar Island across the harbor from Put-in-Bay on South Bass Island. Dr. Jeffrey M. Reutter is the Director.

Stone Laboratory is a unique facility and a resource for the entire state and region. The Laboratory is located on an island and the "field" includes much of the western basin of Lake Erie, including glacial grooves, abandoned limestone quarries, several acres of wet prairie, stream environments, extensive shoreline marshes, alvars, and larger inhabited islands.

Research in aquatic, terrestrial, and island sciences has been conducted at the Laboratory since 1895. Stone Laboratory's association with other programs based at The Ohio State University — the Ohio Sea Grant College Program, the Center for Lake Erie Area Research (CLEAR), and the Great Lakes Aquatic Ecosystem Research Consortium (GLAERC) — has made it an important research facility. Recent research projects have dealt with the following issues:

- Control and impact of zebra mussels and other nonindigenous species
- Island ecology
- Toxic algae and water taste and odor problems
- Transfer of contaminants through the food chain
- Ecosystem management
- Controlling nonpoint source pollution and agricultural run-off
- Wetland research and management
- Sport fishery development
- Insect and snake populations.

Summer Courses
Stone Laboratory students learn in the classroom, laboratory, and field in courses that provide a comprehensive background in freshwater systems and specific information on the unique environmental attributes of Lake Erie.

Upper-level courses are designed for undergraduate and graduate students in biological sciences, education, and natural resources; professional biologists and ecologists; and biology and general science teachers. These courses meet three days a week for five weeks.

Introductory courses are available to college and select high school students who have completed a high school biology course. These courses meet daily for one week.

Other uses of Stone Laboratory
Custom-designed aquatic science workshops and group field studies are offered from mid-April through October. Science teachers who teach 4th grade classes and higher are encouraged to bring their students to Stone Laboratory for one to three days of field study. Stone Laboratory can provide laboratories, research boats, field equipment, and experienced field ecologists for such groups.

Conference and retreat facilities are available from mid-April through October. The isolated, informal atmosphere on the island makes it ideal for these programs.

Research facilities at Stone Laboratory are available year round.

For more information, contact:
Dr. Jeffrey M. Reutter, Director, F.T. Stone Laboratory,
The Ohio State University, 1314 Kinnear Road, Room 1541,
Columbus, OH 43212-1194, 614/292-8949, Fax 614/292-4364.
Web site http://www-ohiosg.osc.edu/OhioSeagrant

Join us at Stone Laboratory to prepare for your future.

- Examine the ecosystem around Stone Laboratory with leaders in science who bring classroom concepts to life.
- Improve research skills with practical, hands-on experience in a living laboratory.
- Earn college credit while still in high school.
- Enhance teaching skills in environmental sciences.
- Live, study, and work on an island for one to 12 weeks.
- Get to know your professors personally with 12 to 20 people in your classes.
- Attend Stone Laboratory to prepare for college, graduate school, your career, and your life.

5-Week Courses
Field Entomology
Aquatic Entomology
Ichthyology
Field Zoology
Higher Aquatic Plants
Marine Biology & Ecology
Limnology
Fish Ecology

1-Week Introductory Courses
Insect Biology
Aquatic Biology
Study of Birds
Field-Based Oceanography
Local Flora

1-Week Courses for Educators
Great Lakes Education Workshop
Geologic Setting of Lake Erie
Principles of Oceanography for Science Teachers
Insect Biology for Teachers

Stone Laboratory's facilities include a research building (above), a library, a 21-room laboratory/classroom building (top of page), a dining hall, and five residence halls.
THE OHIO ACADEMY OF SCIENCE ANNUAL MEETING

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ADDRESS

CITY

STATE ZIP COUNTY

HOME PHONE (__________) WORK PHONE (__________) FAX (__________)

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<th>MASTERCARD</th>
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<td>Card Number</td>
<td>Signature</td>
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Exp. Date [__] [__] [__] [__]

The Ohio J. of Science
In 1996 the Kent State University Press published *A Geography of Ohio*. The book, edited by geographer Leonard Peaceful, features an introduction, sixteen chapters and a conclusion presenting various aspects of Ohio's diverse human and physical geography. Chapters with a physical geography orientation include "The Land," "Climate and Weather," "Ohio Soils" and "Ohio's Mineral Resources." Chapters with a human geography orientation include "Aboriginal Cultures and Landscapes," "Ohio's Settlement Landscape," "The Development of the Economic Landscape," "Population Patterns," "Small Towns," "Energy Production and Consumption," "Agriculture," "Manufacturing," "Transportation," "Outdoor Recreation and Tourism" and "Change on the Edge of Ohio." And embedded nicely near the book’s center is a composite chapter entitled "Cities in Ohio" with subsections on Columbus, Cleveland, Cincinnati, Toledo, Akron, Youngstown and the Dayton-Springfield Metropolitan Area. The text is widely recognized across Ohio and is generally accepted as the penultimate reader on the state’s geography. This panel discussion features several contributing authors to *A Geography of Ohio* as well as a contemporary policy maker interested in the many dimensions of the state’s physical and human geography. Panelists will not review their contributions to the book but will build on the perspectives presented there to look into the future. Each panelist will be asked to address the following questions. How will the subject of your chapter change as we move through the next century? Will the importance of your subject increase or diminish during the next 100 years? In terms of your subject, what advantages does Ohio possess that will present the state with a competitive advantage? In terms of your subject, what disadvantages does Ohio possess that will present the state with a competitive disadvantage? What are the most controversial aspects of your subject’s immediate and long range future? Upon addressing each of these questions panelists will entertain questions from each other and the audience. The policy maker will provide an overview of the discussion, address selected subjects and their implications on state-level policy considerations and look ahead to Ohio’s future.

**DISCUSSANTS:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Nancy Bain</td>
<td>Dept. of Geography, Ohio University</td>
</tr>
<tr>
<td>Mr. Tim Gerber</td>
<td>Div. of Soil &amp; Water Conservation, Ohio Dept. of Nat. Resources</td>
</tr>
<tr>
<td>Prof. Jeff Gordon</td>
<td>Dept. of Geography, Bowling Green State University</td>
</tr>
<tr>
<td>Prof. Emeritus Henry Hunker</td>
<td>Dept. of Geography, The Ohio State University</td>
</tr>
<tr>
<td>Dean Henry Moon</td>
<td>University College, The University of Toledo</td>
</tr>
<tr>
<td>Mr. Tom Nash</td>
<td>Cuyahoga Valley NRA, Brecksville, OH</td>
</tr>
<tr>
<td>Dr. Richard Janson</td>
<td>The Janson Industries</td>
</tr>
<tr>
<td>Elected Public Official</td>
<td>To Be Announced</td>
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</tbody>
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Please see registration form on reverse side.