Science & Technology Plans
Set for the Ohio Bicentennial...
Ohio Called a "Heartland of Science and Technology"

The Science and Technology Council of the Ohio Bicentennial Commission has endorsed more than a dozen proposals to celebrate and interpret achievements in science & technology during Ohio's Bicentennial in 2003. Endorsement does not imply funding. Funds will be sought from both public and private sources.

"These proposals demonstrate that Ohio is truly a heartland of science and technology," said Lynn Elfner, chair of the council. "Ranging from school children in every Ohio classroom to senior citizens who can visit sites of scientific significance in virtually every county, the Bicentennial Celebration in 2003 will provide all Ohioans with opportunities to learn about and appreciate Ohio's far ranging achievements in science and technology," he continued.

"Bicentennial activities will help us learn from our past to shape Ohio's future in education, research and development, health care, the economy and the environment," Elfner remarked.

Science and technology related Bicentennial proposals are available on the World Wide Web at
http://www.ohiosci.org/ST200.htm

Continued on next page...

Ohio Science 200 is a comprehensive, county-by-county web-based publication available at http://www.ohiosci.org/OHIOSCIENCE200.htm. This link leads to an extensive, county-by-county roster of Ohio's contributions to science, engineering, technology, and education including people, places, inventions, and discoveries. The site includes (1) natural features or events of scientific interest, (2) events or developments that have advanced science, (3) Ohio scientists and technologists who have left their mark on the world, and (4) historic sites of scientific and technological achievements.

Address Service Requested
THE SCIENCE & TECHNOLOGY COUNCIL of the Ohio Bicentennial Commission has endorsed the following proposals. Endorsement does not imply funding. Web links are provided for most proposals. The proposal home page, with links to specific proposals, is available at:

http://www.ohiosci.org/OBCS&TCouncil/ST200.htm

Publications
1. Publish Heartland Science Book & CD-ROM
2. Republish Ohio's Natural Heritage Book in both print and web-interactive CD-ROM formats; develop teacher workshops
http://www.ohiosci.org/OBCS&TCouncil/ONH.pdf
3. Publish an Ohio Based Technology-Driven Companies Recruitment piece
http://www.ohiosci.org/OBCS&TCouncil/RECRUITMENT.htm
4. Emphasize Technology in County Historical Society Publications
http://www.ohiosci.org/OBCS&TCouncil/CountyS&T.htm

Education
1. Launch Ohio’s Bicentennial Space Scientists of Tomorrow
2. Double Ohio’s Participation in the Intel International Science & Engineering Fair by the Year 2003
http://www.ohiosci.org/OBCS&TCouncil/OhioGiants.htm
4. Celebrate Time and Weather
http://www.ohiosci.org/OBCS&TCouncil/Time&Weather.htm
5. Conduct SAE Aero Design Collegiate Competition
http://www.ohiosci.org/OBCS&TCouncil/SAEAerodesign.htm
6. Roll out COSI on Wheels
http://www.ohiosci.org/OBCS&TCouncil/COSIONWHEELS.pdf
7. Conduct COSI’s Ohio Statewide Science Workshop (OSSW)
http://www.ohiosci.org/OBCS&TCouncil/COSIOSSW.pdf
8. Develop Lake Erie Shipwrecks & Maritime Heritage program
http://www.ohiosci.org/OBCS&TCouncil/LakeErieShipwrecks.htm
9. Create Ohio Automobile History book and website
http://www.ohiosci.org/OBCS&TCouncil/OhioAutomotiveHistory.htm
10. Create a website for Ohio’s Aviation History
http://www.ohiosci.org/OBCS&TCouncil/OhioAviationHistory.htm

Media Outreach
1. Develop Science “Covers” Ohio — (Three Quilt Projects)
   a. County Quilts through 4-H Clubs
   http://www.ohiosci.org/OBCS&TCouncil/ScienceCoversOhio_CountyQuilts.htm
   b. Statewide Quilt
   http://www.ohiosci.org/OBCS&TCouncil/ScienceCoversOhio_StatewideQuilt.htm
   c. Minority Scientists Quilt
   http://www.ohiosci.org/OBCS&TCouncil/ScienceCoversOhio_MinorityQuilt.htm
2. Develop OP-ED pieces that support Science & Technology
http://www.ohiosci.org/OBCS&TCouncil/OP-EDS.htm
3. Create Ohio “52” —Weekly Promotion for Science and Technology Companies & Organizations
http://www.ohiosci.org/OBCS&TCouncil/Ohio52.htm
4. Establish 25-35 New Roadside S & T Historical Markers
http://www.ohiosci.org/OBCS&TCouncil/S&Thistoricmarkers.htm

Organizational
1. Conduct Technical Organizations Statewide Membership Gala
http://www.ohiosci.org/OBCS&TCouncil/Gala.htm

How to Get Involved
EXPRESSIONS OF INTEREST in providing volunteer or financial support for any of these projects or to suggest additional ideas for the Bicentennial may be indicated to:
Ohio Bicentennial Commission
Science & Technology Advisory Council
c/o The Ohio Academy of Science
1500 West Third Avenue Suite 223
Columbus OH 43212-2817
Phone 1-614-488-2228
Email oas@wwaynet.net
http://www.OHIOSCI.org
Editorial Policy:

**General:**

THE OHIO JOURNAL OF SCIENCE considers original contributions from members and non-members of the Academy in all fields of science. While special consideration will be given to manuscripts concerned with Ohio subject matter, other reports with scientific merit will be reviewed for publication. Submission of a manuscript is understood to mean that the work is original and unpublished, and is not being considered for publication elsewhere. All manuscripts considered for publication will be peer-reviewed. The opinions expressed by reviewers are their own, and do not represent the views of the Ohio Academy of Science or THE OHIO JOURNAL OF SCIENCE. Manuscripts and illustrations should be prepared in **triplicate** in accordance with current guidelines published in THE JOURNAL at least once a year, and submitted to:

Dr. Isadore Newman, Editor
THE OHIO JOURNAL OF SCIENCE
41 Arch Street
Akron, OH 44304-1499 USA

**Page Charges:**

Publication of THE OHIO JOURNAL OF SCIENCE requires that authors assist in meeting publication expenses. These costs will be assessed at $75 per page for members of the Academy and $110 per page for non-members. In multi-authored papers, **each author must be a member of the Academy** at the time of publication to be eligible for the reduced member rate. Papers which exceed 12 printed pages may be charged full production costs. A bill for page charges will be sent to the communicating author by the Ohio Academy of Science at the time of publication.

**Failure to Receive THE JOURNAL:**

Any claim of failure to receive subscription issues of THE JOURNAL must be submitted to the Ohio Academy of Science within six months of date of issue of the missing number, to be recognized.

---

**The Ohio Academy of Science Membership Application**

Please Type or PRINT

<table>
<thead>
<tr>
<th>Please Check Appropriate Lines</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,000 Life (installment plan available)</td>
</tr>
<tr>
<td>$1,000 Sponsor of the Academy</td>
</tr>
<tr>
<td>$750 Sustainer of the Academy</td>
</tr>
<tr>
<td>$500 Advocate of the Academy</td>
</tr>
<tr>
<td>$500 Corporate Member</td>
</tr>
<tr>
<td>$500 Supporter of the Academy</td>
</tr>
<tr>
<td>$100 Institution, Organization or Agency Member</td>
</tr>
<tr>
<td>$100 Friend of the Academy</td>
</tr>
<tr>
<td>$55 Booster of the Academy</td>
</tr>
<tr>
<td>$75 Family (maximum of 3 persons)</td>
</tr>
<tr>
<td>$55 Regular Member</td>
</tr>
<tr>
<td>$30 Retired (age 59 &amp; over) Member with Journal</td>
</tr>
<tr>
<td>$30 College Student with Journal</td>
</tr>
<tr>
<td>$30 Pre-college Student with Journal</td>
</tr>
<tr>
<td>$25 Retired Member without Journal</td>
</tr>
<tr>
<td>$25 Pre-college Student without Journal</td>
</tr>
</tbody>
</table>

Please Type or PRINT

<table>
<thead>
<tr>
<th>Circle title: Ms. Mrs. Mr. Dr. Prof.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name ______________________________</td>
</tr>
<tr>
<td>Employer, organization, school, or institution ____________________________</td>
</tr>
<tr>
<td>Department, street or P.O. Box ____________________________________________</td>
</tr>
<tr>
<td>City/State/Zip ______________________</td>
</tr>
<tr>
<td>Is this a home address? Yes No County ________________________________</td>
</tr>
<tr>
<td>E-mail address _____________________</td>
</tr>
<tr>
<td>Office Ph (<em><strong><strong>) Home Ph (</strong></strong></em>) FAX (_____) _______________________________</td>
</tr>
<tr>
<td>Field of Interest ____________________</td>
</tr>
</tbody>
</table>

**Method of Payment**

Enclosed is a check made payable to The Ohio Academy of Science for $________.

Please charge my credit card $________ plus a $2.00 processing fee.

___ VISA ___ MASTERCARD Exp. Date / / 

Card Number ______________________________}

Signature _______________________________

Please Return to:
The Ohio Academy of Science
1500 W. Third Ave. Ste. 223
Columbus OH 43212-2817

Phone or FAX 614/488-2228

---

**Listing Services:**

THE OHIO JOURNAL OF SCIENCE is listed or abstracted in several sources including:

- AcadSci Abstracts
- Bibliography of Agriculture
- Biological Abstracts
- Chemical Abstracts
- Current Advances in Ecological Sciences
- Current Contents (Agriculture, Biology & Environmental Sciences)
- Deep Sea Research and Oceanography Abstracts
- Environment Abstracts
- Environmental Information Center
- Forest Products Abstracts
- Forestry Abstracts
- Geo Abstracts
- GEOBASE
- Geology Abstracts
- GeoRef
- Helminthological Abstracts
- Horticulture Abstracts
- Nuclear Science Abstracts
- Review of Plant Pathology
- Selected Water Resources Abstracts
- World Agricultural Economics and Rural Sociology Abstracts

---

**Future Academy Meetings**

2002 Capital University – Columbus
April 5-7

Date of issue—April 2001
Typesetting—Ardena Pierce
Copyright © 2001 by The Ohio Academy of Science
Printing—Spencer-Walker Press, Inc., Newark, OH USA
ARTICLES

2 Monitoring Southern Flying Squirrel Populations with Nest Boxes by D. P. Althoff and P. S. Althoff

12 The Relationship Between Patterns in Flying Adult Insect Assemblages and Vegetation Structure in Wetlands of Ohio and Texas by R. J. Garono and J. G. Kooser

22 Effects of Local Conspecific Density on Reproductive Success in Penstemon digitalis and Hesperis matronalis by R. J. Mitchell and D. P. Ankeny

28 Natural Areas Assessment and Research Opportunities at the Holden Arboreturn, Kirtland and Mentor, Ohio by M. F. Quigley and M. D. Abrams

BOOK REVIEW


List of Reviewers — 32

INSTRUCTIONS TO AUTHORS — inside back cover