

Industrial Affiliates

Associate Patron \$2,000 level
Touchstone Energy

Associate Member \$100 level
Wood Hudson Cancer Research
Laboratory, Inc.

Institutional Affiliates

Fellow \$1,000 level
University of Kentucky
University of Louisville

Sustaining Member \$500 level
Eastern Kentucky University
Kentucky State University
Morehead State University
Murray State University
Northern Kentucky University
Western Kentucky University

Member \$250 level
Berea College
Campbellsville University
Centre College
Paducah Community College
Pikeville College

Associate Member \$100 level
Jefferson Community College
Thomas More College
Transylvania University

Middle and High Schools
Taylor County High School

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From the President...

Well, it has been 3 months since the last newsletter and I want to update the membership on the progress made on my 3 goals for this year.

Goal 1 – Do no harm. Maybe someone else should update you on this one?

Goal 2 – Make KAS more user-friendly and efficient. Many people have been working hard to improve the Journal, website and newsletter. More information is added to the website on a regular basis. What else should we be working on?

Goal 3 – Engage the membership. The good news is that the membership is growing. Former members have been contacted to get them reconnected to KAS. A recognizable KAS presence can be identified at regional student science fairs. Recruitment of new members and affiliates is ongoing. Have you recruited anyone?

This is where you come in. I want some input and feedback from the membership, and the non-membership (is that a word?). I have composed a survey that is printed on the inside back page of this newsletter. Please make a copy and give it to a colleague that is not a member of KAS. I'd like you both to fill it out, express your opinion, and fax it to me. This may be asking a lot but I need know your opinion and ideas, and why non-members have not joined. I will summarize the responses and take them directly to the Governing Board. If you take the time to fill this out I will personally contact you via e-mail. If you want to remain anonymous, that's okay too. A copy will also be available on the website. Thanks for supporting your Academy.

Robert J. Barney
KAS President
rbarney@gwmail.kysu.edu

Annual Meeting Reminder

The 89th Annual Meeting of the Kentucky Academy of Science will be hosted by Western Kentucky University. It will be held November 6-8, 2003, at Bowling Green, Kentucky.

KAS Member Honored



2002 Kentucky State Nature Preserves Commission Biological Diversity Protection Award presented to Dr. Guenter A. Schuster

Dr. Guenter A. Schuster, a professor in the Department of Biological Sciences at Eastern Kentucky University and a member of the Governing Board of the Kentucky Academy of Sciences, was recently the honored recipient of the Kentucky State Nature Preserves Commission's Biological Diversity Protection Award. He was chosen for this award based on more than 20 years of personal effort to conserve biodiversity in the Commonwealth. Dr. Schuster's conservation and research focus is aquatic systems and the organisms which inhabit them. He has cultivated a particular emphasis on caddisflies, freshwater mussels, and crayfishes. Dr. Schuster is a nationally recognized authority on each of these extremely diverse groups of aquatic organisms. His contributions to biodiversity protection are deeply rooted in his dedication to teaching, sharing information and his research work. Dr. Schuster has made major contributions to the protection of aquatic resources of both state and national significance and spreads his interests and work through the students he has taught.

KBRIN Faculty Fellowships

The Kentucky Biomedical Research Infrastructure Network (KBRIN) was developed through a grant from the National Center for Research Resources, N.I.H to the University of Louisville in conjunction with the University of Kentucky. In addition to UL and UK, the network consists of the six state regional institutions – Eastern Kentucky University, Kentucky State University, Morehead State University, Murray State University, Northern Kentucky University, and Western Kentucky University – and five independent institutions – Bellarmine University, Berea College, Kentucky Wesleyan College, Pikeville College, and Transylvania University.

The objectives of the KBRIN Faculty Fellowship program are to stimulate biomedical research in the Commonwealth of Kentucky by:

- enabling collaboration between research faculty at the two doctoral degree granting institutions and the KBRIN-related institutions;
- providing the best possible research environment for faculty from regional or independent institutions by facilitating the use of core research facilities at the doctoral degree granting institutions (see <http://www.kbrin.louisville.edu/res-tools/ky-res-tools.html>);
- encouraging the writing of grants (especially to NIH) and publications by the faculty from the regional or independent institutions, especially through collaboration with faculty from the research intensive universities; and
- involving sciences and mathematics undergraduates in research at the regional and independent institutions.

Faculty from all Kentucky postsecondary institutions may apply for funds to develop research collaborations as described above. Requests for funding may include expenses for supplies, for the use of core research facilities, for housing and travel costs while visiting UK or UL, to offset summer salary, and to pay research expenses of undergraduate or graduate students who are assisting in the research. Normally, the total fellowship will not exceed \$10,000 but exceptions may be made, based on strong justification and availability of funds. Awards will be made to the applicant's institution. A 10% facilities & administrative cost (F&A) will be provided to the institution in addition to direct costs, except for tuition & equipment (resulting in a maximum cost of \$11,000).

Projects funded so far include:

- Joseph Sinski (Bellarmine University) 2002
- Steven D. Wilt (Kentucky Wesleyan College) 2002
- David Peyton (Morehead State University) 2002
- Joanne Dobbins (Bellarmine University) 2002
- Debra Bautista (Eastern Kentucky University) 2003
- James Cox (Murray State University) 2003
- David Peyton (Morehead State University) 2003
- Gary Ritchison (Eastern Kentucky University) 2003
- Claire Rinehart (Western Kentucky University) 2003, and
- Joseph Sinski (Bellarmine University) 2003

There is still time to apply for KBRIN Fellowships for projects that can be funded through August 31, 2003. Applications that are received by Phil Schmidt at Northern Kentucky University (via email schmidtp@nku.edu) by April 30, 2003 will be considered. Applications received after that date will be considered for next year's funding cycle. Applications must follow the **KBRIN Fellowship Guidelines** as found at the website

<http://www.kbrin.louisville.edu/res-tools/collaborate.html>.

Calendar Due Dates



September 29, 2003

Nominations for
KAS Superlative Awards

October 1, 2003

Proposals for
KAS Special Research Program

September 26, 2003

Paper Abstracts for
KAS Annual Meeting

November 15, 2003

Proposals for
Undergrad. Research Supply Grants
Summer Undergrad. Research Grants

December 1, 2003

Paper Abstracts for Publication
in the KAS Journal

Send additions to the calendar to
stempleton@gwmail.kysu.edu.

PAPER SUBMISSION FORM

KENTUCKY ACADEMY OF SCIENCE

89th ANNUAL MEETING

November 6-8, 2003

Western Kentucky University

Bowling Green, Kentucky

Title of Paper (Please type) _____

(An abstract must be submitted with this form. See reverse side for guidelines for preparation of abstract.)

Author(s) (check presenter) (one author must be a KAS member)	KAS		Institutional Affiliation	Position (circle)			
	Member			High School	Ugrad	Grad	Professional
_____	Yes	No	_____	H	U	G	P
_____	Yes	No	_____	H	U	G	P
_____	Yes	No	_____	H	U	G	P
_____	Yes	No	_____	H	U	G	P

*Sponsor _____

*All undergraduate or high school students who are not members of KAS must be sponsored by a member of the Academy. There is not a limit on the number of papers a member may sponsor.

___ Check if entering the Undergraduate Research Competition. The URC presentations will be given ONLY on Friday.

Check Section in Which Paper will be Presented

___ Agricultural Sciences	___ Health Sciences
___ Anthropology and Sociology	___ Industrial Sciences
___ Botany and Microbiology	___ Mathematics
___ Cellular and Molecular Biology	___ Physics and Astronomy
___ Chemistry	___ Physiology and Biochemistry
___ Computer Science	___ Psychology
___ Engineering	___ Science Education
___ Geography	___ Zoology
___ Geology	

Type of Presentation (Check one)

___ Oral Presentation (15 minutes max.) - each room will have an overhead projector and a 2x2 slide projector.
___ Power Point Presentation
___ Poster Presentation - a 4' x 6' poster board will be provided.

Session Time Preference for Oral Presentation (1 = first preference; program requirements may restrict honoring preferences)

___ Friday a.m. ___ Friday p.m. ___ Saturday a.m. ___ Saturday p.m.

Name and Mailing Address of Contact Person (undergraduate student use mentor as contact person)

Phone _____

Fax _____

E-mail _____

Return this form and a single spaced abstract by **September 26, 2003** to: Robert Creek, KAS Program Coordinator, Department of Biology, Eastern Kentucky University, Richmond, KY 40475. Phone (859)623-6646; Fax (859)622-1399; e-mail: rcreek@chpl.net

GUIDELINES FOR PREPARATION OF ABSTRACTS FOR PAPER AND POSTER PRESENTATIONS

1. Text of abstracts must be 250 words or less.
2. Abstracts must be on white, good quality paper (8.5 x 11 in.). They must be single spaced throughout and have a margin of 1 inch all around.
3. Use a type size of 12 point (10 cpi) and the same font throughout: do not use bold. Italics should be used only for the scientific names of the organisms and other expressions that conventionally appear in italic type.
4. Do not justify the right-hand margin.
5. The address should contain the capitalized name(s) of the author(s), department, university or company, name of the city, name of the state (use two-letter abbreviation, e.g. KY, IN, OH) and the zip code.
6. In multi-authored abstracts, the name of the presenter of the paper will be indicated by an asterisk.
7. Use standard, well-known abbreviations when the use of abbreviations is necessary.
8. When using abbreviations for chemical compounds, spell out the name in full at the first mention and follow with the abbreviation in parentheses; use the abbreviation thereafter. Do not abbreviate chemical compounds in the title of the abstracts.
9. Any special symbols not on your word processor must be carefully drawn in by hand with fine pen and black ink.
10. Scientific names of organisms should be in italics (not underlined). Spell out generic names the first time they are used; afterwards these names should be abbreviated to first letter (plus a period) when followed by a specific epithet unless confusion may result with another abbreviated generic name in the abstract.
11. In the upper right hand corner of the abstract, type in CAPITALS the name of the section in which your paper or poster is being presented.
12. The following is an example of a portion of a proper abstract.

BOTANY AND MICROBIOLOGY

Taxonomic status of the varieties of Seneca snakeroot, *Polygala senega* (Polygalaceae). AMY E. TRAUTH* and ROBERT F. C. NACZI, Department of Biological Sciences, Northern Kentucky University, Highland Heights, KY 41099.

Seneca snakeroot, *Polygala senega* (Polygalaceae), is an uncommon plant ranging throughout most of eastern North America. Two varieties have been described for the species: variety *senega* and variety *latifolia*. The taxonomic.....

13. The abstract must be sent with your Paper Submission Form to the Program Coordinator listed at the bottom of the form.

PUBLICATION OF ABSTRACTS IN THE *JOURNAL*

If you would like to submit your abstract for publication in the *JOURNAL*, the guidelines are the same as above except you need to send a hard paper copy and a disk or e-mail version in WordPerfect or Word. Please include with your abstract a check for \$15.00 made payable to the Kentucky Academy of Science to cover publication costs (invoices will not be sent). Abstracts for publication must be received by the Abstract Editor by December 1.

Dr. Robert J. Barney
Abstract Editor
Community Research Service
Kentucky State University
Frankfort, KY 40601
rbarney@gwmail.kysu.edu

SECTIONAL OFFICERS - 2003

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gantonious@gmail.kysu.edu

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John All, Secretary
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durtsche@nku.edu

Sarah Blank, Secretary
(859) 985-3336
sarah_blank@bera.edu

Need information?

To inquire about membership status, lost Newsletter or Journal issues, please contact the Kentucky Academy Office.

The Kentucky Academy of Science
Science Outreach Center
University Drive
University of Kentucky
Lexington, KY 40536-0078
Phone: (859) 257-7364
e-mail: dfrazie@pop.uky.edu

To submit an item for publication in the Newsletter, contact:

Susan B. Templeton, Editor
Atwood Research Bldg.
Kentucky State University
Frankfort, KY 40601
Phone (502) 597-6030
FAX (502) 597-6381

e-mail: stempleton@gmail.kysu.edu
Submission deadlines for the Newsletter are
December 1, February 15, and July 15.

Check out the KAS website at <http://kas.wku.edu/>

KAS Governing Board 2003



Left to right: front row: Robert Creek, Jerry Warner, Robert Barney, Robert Kingsolver, Mark Blankenbuehler, Patrick Bamwine; second row: Bruce Mattingly, Jennifer Muzyka, Ken Crawford, Susan Templeton; third row: Dawn Anderson, Sharon Wilson, Elizabeth Sutton, John Thieret, Ralph Thompson; Last row: Don Frazier, Claire Rinehart. Members not available for the photo include Guenter Schuster, Tom Rambo, and David Hogan.

Student Proposals Funded

The Kentucky Academy of Science funded two proposals to support research by Undergraduates at our January board meeting.

One was a Supply Grant, to David Riffée & Mark Blankenbuehler (Faculty Sponsor) - Morehead State University - "Synthesis of Cyclopenta[d]pyridazines and the COX Connection", \$500.

The second was a Summer Grant, to Christopher Whitaker & Ilun White (Faculty Sponsor) - Morehead State University - "Influence of Amygdala and Hippocampus in Expression of Hyperactive Behavior in Rats", \$3000.

For proposal guidelines and eligibility requirements for the KAS Undergraduate Student Research Grants, the Marcia Athey and Botany Fund Grants, and Special Research Grants, visit the KAS website at <http://kas.wku.edu>. Submit completed applications to:

Dr. Jennifer L. Muzyka
Associate Professor of Chemistry
Centre College
600 W. Walnut Street
Danville, Kentucky 40422
859-238-5413
muzyka@centre.edu

2002 Election Results

The membership of Kentucky Academy of Science elected the following individuals to serve on the Governing Board:

Vice President: *Bruce Mattingly*

Secretary: *Dawn Anderson*

Div. Rep, Physical Sci: *Mark Blankenbuehler*

Call for Nominations to KAS Governing Board

The Kentucky Academy of Science Nominations and Elections Committee is seeking assistance from the KAS membership in our effort to identify a ballot of quality candidates to assume leadership roles within the Academy for next year. KAS members interested in nominating colleagues for these vacant positions, or individuals willing to volunteer to be placed on the ballot, should forward the name, e-mail address/phone number for each candidate, and indicate the leadership position of interest. Then Nominations and Elections Committee will contact each candidate to request the necessary information to be included on the ballot. This is an extremely important responsibility for the members of KAS and the committee needs your assistance in identifying candidates for these vacancies. The membership is being contacted at this time for nominations for the following three offices:

Vice President

**Biological Sciences Division Representative
At-Large Representative**

Any member may nominate another member for the Vice President and At-Large Representative. However, for Biological Sciences, the nominator must identify with that Division. Please send nominations to:

Gordon Weddle
Professor of Biology
Campbellsville University
Upo 1287, Bio Dept
1 University Drive
Campbellsville, KY 42718-2799
(270) 789-5328
(270) 789-5170
gweddle@campbellsville.edu

Invitation to Submit Papers

John Thieret invites submission of papers for the Journal of the Kentucky Academy of Science, a peer-reviewed semiannual publication. Papers should be prepared according to the instructions given in JKAS 63(2) and sent to Dr. Thieret at Biological Sciences, Northern Kentucky University, Highland Heights, KY 41099. Any questions? E-mail the editor at thieretj@nku.edu or visit the Kentucky Academy of Science web at <http://kas.wku.edu/kas/HTJourPub.asp>.

Survey of KAS Membership

April 2003

1. How long have you been a member of KAS?

0-1 years 2-5 years 6-10 years 11-20 years forever non-member

2. Why did you join KAS?

Started as student and never left To present at meeting Build my resume
 Wanted to serve science and KY To publish in Journal Not sure
 Good forum for my students Apply for research funds

Other: _____

3. How often do you attend the annual meeting? Regularly Rarely Never

4. How often do you present at the annual meeting? Regularly Rarely Never

5. How could the meeting be improved?

6. How often do you publish in the Journal? Regularly Rarely Never

7. How could the Journal be improved?

8. How often do you check the KAS website? Regularly Rarely Never

9. How could the website be improved?

10. How often do you apply for a KAS research grant? Regularly Rarely Never

11. How could the grant process be improved?

12. What else could be done to improve KAS?

Your e-mail _____

Return to: Robert J. Barney
 President of KAS

Atwood Research Bldg.
Kentucky State University
Frankfort, KY 40601

Fax: (502) 597-6381



Kentucky Junior Academy of Science

The Junior Academy was begun over fifty years ago to foster an interest in science for high school students in Kentucky. KJAS has expanded over the years to include middle school students as well as high school students.

Members of the Kentucky Junior Academy have the opportunity to :

- interact with other high school students across the state who are interested in science and technology,
- apply for money to design and complete science projects,
- present projects at the annual KJAS meeting, and
- publish an abstract in the Journal of the Kentucky Academy of Science.

Two winners from the KJAS annual meeting represent Kentucky at the National American Junior Academies of Sciences meeting each year.

Are you interested in joining the Kentucky Junior Academy of Science or just want to learn more about it? Check out the web site at:

<http://www.kyjas.org/>

or contact the KAS/KJAS office at:

University of Kentucky Outreach Center for Science & Health Careers
102 Chandler Medical Center Annex 5
Lexington, KY 40536-0078

Yes, I Want to Join the Kentucky Academy of Science

Check appropriate boxes

Individual Membership

(January to December)

- \$25 Active Member
- \$15 Student member (Collegiate)
- \$10 KJAS member
- \$35 Family member
- \$350 Life member

Educational/Industrial Affiliate Membership

- \$5,000 Patron
- \$2,000 Associate Patron
- \$1,000 Fellow
- \$500 Sustaining Member
- \$250 Member
- \$100 Associate Member

Section Choice _____

Payment Enclosed \$ _____

Name _____

Street _____

City _____ State _____ Zip _____

E-mail _____

Employer or School _____

Please make checks payable and mail to:

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