



Kentucky Academy of Science

NEWSLETTER

*The Voice of Science
in Kentucky*

<http://www.kyscience.org>

August 2007

Affiliates

Fellow - \$1,000 level

- Morehead State University
- Murray State University
- University of Kentucky
- University of Louisville
- Western Kentucky University
- KBRIN (Kentucky Biomedical Research Infrastructure Network)

Sustaining Member - \$500 level

- Bellarmino University
- Berea College
- Campbellsville University
- Eastern Kentucky University
- Kentucky State University
- Northern Kentucky University
- Third Rock Consultants

Member - \$250 level

- Asbury College
- CEM Corporation
- Centre College
- Kentucky American Water
- Kentucky Wesleyan College
- Madisonville Community & Technical College
- Spalding University
- Thomas More College
- Transylvania University
- University of the Cumberlands
- West Kentucky Community & Technical College

Associate Member - \$100 level

- Hoffman Environmental Research Institute
- Pikeville College
- Wood Hudson Cancer Research Laboratory

Newsletter Advertising Rates*

Ad Size	Non-Member	KAS Member
Standard		
Business Card	\$30	\$27
1/4 page	\$45	\$40
1/2 page	\$80	\$72
Full page	\$150	\$135

*Per Issue

93rd ANNUAL MEETING

November 8-10, 2007

**Co-hosted by University of Louisville & Bellarmine University
Louisville, KY**

The 93rd Annual Awards Banquet will be held on the Bellarmine University Campus and all other meeting events will be held on the University of Louisville Belknap Campus. Please visit the interactive website <http://louisville.edu/a-s/geog/belknapmap.html> to familiarize yourself with the U of L campus. Meeting registration will be held in the Belknap Research Building which is Building 4 on this map. Follow the KAS signs on campus. Visit <http://louisville.edu/parking/directions> to view directions to the U of L Belknap campus. Directions to Bellarmine University from the University of Louisville will be in your registration folder. The program will not be mailed prior to the meeting, but will be provided to those attending the meeting and available on the KAS website.

This year's meeting theme will be Health in Kentucky. Planned speakers are listed in the Tentative Program on page 6; information on pre-registration, abstract submission, poster presentation schedules, and parking can be found on page 2 of this newsletter. **THE DEADLINE FOR PRE-REGISTRATION IS OCTOBER 20. THE DEADLINE FOR SUBMITTING AN ABSTRACT IS OCTOBER 5**, after which submission will not be possible. The motels and hotel listed below have blocked in a number of rooms at the rate listed. The deadlines for these rates are relatively early, so make your reservations soon. When making reservations be sure to identify yourself as a member of the Kentucky Academy of Science.

You will have the ability to pre-register electronically on the KAS website at www.kyscience.org, and also to pay by PayPal. On-site registration, however, must still be paid by cash or check. You may also pre-register by mail. We would encourage everyone to pre-register for the meeting, particularly if you are planning on going to the Awards Banquet, since these tickets may be limited.

<u>Annual Meeting Accommodations</u>	<u>Room Rate & Reservation Deadline</u>
Red Roof Inn, 4707 Preston Highway 502-968-0151 or 800-733-7663	\$45.89-\$62.89, varies by room October 8
Super 8 Motel, 101 Central Avenue 502-635-0799	\$55.00 October 10
Country Inn and Suites, 2850 Crittenden Drive 502-753-5555	\$109, Doubles/Studio Ste, King Ste September 24
Executive West Hotel, 830 Phillips Lane 502-367-2251 or 800-626-2708	\$89 October 8
La Quinta, 4125 Preston Highway 502-368-0007	\$109 King and Double September 9

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Message from the Executive Director

KAS is pleased to announce Kentucky American Water is a new affiliate. Kentucky American Water (www.kawc.com) supports numerous science education activities in the communities they serve. We are thrilled to welcome this great organization to KAS!

Just a reminder, if you move, change email address, etc., please update your contact information in the KAS online database so that you receive all of your membership benefits such as newsletters and complementary issues of the Journal of the Kentucky Academy of Science. If you have any questions, please contact me.

I look forward to seeing everyone at the KAS Annual Meeting in November. If you have registration questions please contact me (contact information listed below) and if you have questions regarding paper/poster presentations please contact Dr. Bob Creek at robertcreek@bellsouth.net or (859) 623-6646.

We have already started receiving meeting registrations. You can pre-register for the meeting online or by mail and receive reduced registration rates until October 20. Remember, the KAS Member registration fee is \$30 versus \$55 for non members, so KAS Members will want to log in and pre-register as a member. The student registration fee is \$5.00.

Lastly, the KAS Annual meeting exhibitor space is limited and we have only a few exhibitor tables still available. If your organization is interested in exhibiting at the Annual Meeting please contact Jeanne Harris as soon as possible.

Best wishes,

Jeanne Harris, KAS Executive Director
executivedirector@kyscience.org
859-227-2837

Guidelines for Pre-Registration

To register online visit www.kyscience.org, click on Annual Meeting, select Pre-Register ONLINE and follow the directions.

Per feedback from the 2006 Annual Meeting, KAS has a new feature for online registration which allows an individual to pay for multiple attendees, i.e., for a professor registering his/her students. To access this feature, pre-register all the selected attendees and click Pre-Registration Payment Only on the Annual Meeting page and follow the directions. You can also use this feature if you exit the pre-registration process prior to payment online and wish to pay your pre-registration through PayPal at a later date.

2007 Annual Meeting Announcements

Guidelines For Submitting An Abstract For Presentation

The DEADLINE for submitting an abstract for presentation is OCTOBER 5. Forms will not be available after this date. You MUST PRE-REGISTER prior to submitting an abstract. To submit an abstract go to the KAS website at www.kyscience.org. On the left side of the page click on MEETINGS then select SUBMIT AN ABSTRACT. This page will allow you to log on as a member or non-member and to submit an abstract if you have pre-registered. If you have not pre-registered, this page will provide you with the link to the site for pre-registration, after which you will return to this page to submit an abstract. Once you have logged on you will be linked to the form for the submission of your abstract. This form is basically the same as used in the past. One major difference this year involves the poster presentations, as explained below. You will receive a notice via e-mail that your abstract has been received. When the program is complete you will receive a message giving you the date, time and location of your presentation. You are urged to submit on-line, however, if you are unable to do so then you may use the Paper Submission Form that is included in this Newsletter.

Guidelines for PowerPoint Presentations

All presentations should be compatible with Power Point version 2003 and brought on a USB flash drive; the computers will not have CD drives. You must be in the assigned room 15 minutes before your session begins to upload your presentation.

Guidelines for Poster Presentations

Due to the continued increase in the number of posters being presented (134 last year) the poster presentations will be divided into a morning session and an afternoon session according to sections. The submission of a poster abstract will be done on-line at www.kyscience.org. The deadline for submission is October 5.

<u>Sections</u>	<u>Set-up Time</u>	<u>Judging</u>	<u>Removal</u>
Agricultural Science - Geography	7:30 - 8:00 AM	9:00 AM	11:30 - 12:00 PM
Geology - Zoology	12:00 - 1:00 PM	1:30 PM	5:00 PM

The URC poster presenters must be present in order to have their posters judged. It is very important that the AM posters are removed in time to allow the PM set up.

Important Parking Information

On Thursday and Friday parking for the 2007 Annual KAS Meeting events at U of L will be available in three locations on the U of L campus.

- Pay parking will be available in the Floyd Street Garage/Floyd SAC Pay Lot. This entrance is off Floyd Street by the flashing pedestrian light. (number 75 on <http://louisville.edu/a-s/geog/belknapmap.html>). Rates are: less than one hour \$1.00, 1-2 hours \$3.00, 2-3 hours \$4.00, 3-4 hours \$6.00, and more than 4 hours \$8.00 per day. This facility is an approximate five minute walk via the pedestrian bridge to the U of L buildings where the majority of the meeting functions will be held.
- Pay parking will be also available at the Speed Art Museum at 2035 South Third Street and is a short walk to KAS registration. The maximum daily rate is \$6.00.
- FREE parking will be available at Papa John's Stadium (See location number 108 on the South Belknap campus map at louisville.edu/a-s/geog/belknapmap.html.) PLEASE NOTE YOU MUST HAVE A KAS MEETING PARKING PASS DISPLAYED ON YOUR DASH TO SECURE FREE PARKING AT PAPA JOHN'S STADIUM. Passes will be available for downloading off the KAS webpage. In this lot, you can utilize the black route shuttle. Exit the shuttle in front of the Thrust Theater (building number 71 on the web interactive map) which is just past the McDonalds on campus.

On Saturday you may park for FREE without a permit in the red, blue and green lots-but NOT yellow lots on the U of L Belknap Campus. You may also park in the Floyd Street Garage/Floyd SAC Pay Lot and the weekend flat rate is \$3.00. There is no shuttle service on Saturday, so do not park in the Papa John's Stadium then.

Research Funds Available

Special Research Program

The program of KAS special research awards is directed particularly to faculty in Kentucky higher education institutions, public or private, involved primarily in undergraduate education. Awards of up to \$10,000 will be available as funding allows.

Undergraduate Research Program

KAS makes available funds for research planned and conducted by undergraduate students of Kentucky colleges and universities under the supervision of a faculty member who is a member of the Kentucky Academy of Science. Currently, two undergraduate research grant programs are available: Undergraduate Research Supply Grants with awards of up to \$500, and Summer Undergraduate Research Grants with awards of up to \$3,000.

Marcia Athey and Botany Funds

The KAS Foundation makes available through the Marcia Athey Fund and the Botany Fund monies for research planned and conducted by students of Kentucky secondary schools, colleges, and universities under the supervision of a faculty member, and if funds permit, faculty research projects. Faculty sponsors/researchers must be KAS members. Awards normally are in the several hundred dollars range, though in extraordinary circumstances some higher awards may be possible.

Funding Request Deadline for all programs: must be received by November 15, 2007. Detailed instructions for preparing proposals can be found on our website at www.kyscience.org. For more information contact:

George F. Antonious, Ph.D.
Kentucky State University
Department of Plant and Soil Science
Water Quality/ Environmental Toxicology
218 Atwood Research Center
Frankfort, KY 40601
Office: 502-597-6005
Lab: 502-597-6253
Fax: 502-597-6381
E-mail: george.antonious@kysu.edu

Call for Nominations for Superlative Awards

The Kentucky Academy of Science seeks nominations of individuals who have made outstanding contributions to scientific research and education in the Commonwealth in the five areas designated below. Details of qualifications and content of nomination packages are available on the **Awards and Recognition** page at www.kyscience.org. September 20, 2007 is the deadline for nominations. All nominations and supporting materials should be sent in electronic format; e-mail attachments must be in MS Word format. Send to:

Robin Cooper, Chair
KAS Committee on Awards
Department of Biology
University of Kentucky
Lexington, KY 40506

(859) 257-5950
RLCOOP1@pop.uky.edu

Outstanding Academy Service: The recipient shall have been a long time member of the Kentucky Academy of Science and shall have made significant contributions to the growth and development of the Academy.

Distinguished College/University Scientist: The recipient shall have made some significant contribution to academic research in Kentucky.

Outstanding College/University Teacher: The recipient shall have made some significant contribution primarily to science teaching but also to research at the college/university level in Kentucky.

Outstanding Secondary School Science Teacher: The recipient shall have made some significant contributions to the teaching of science at the middle and high school level in Kentucky.

Distinguished Professional Scientist (in a non-academic position): The recipient shall have made some significant contributions to science in Kentucky.

Call For Papers

The *Journal of the Kentucky Academy of Science*, now in its 68th year, is published through Allen Press each spring and fall and is abstracted through BioOne. The *Journal* publishes peer reviewed articles from all disciplines within the Academy. Turnaround time usually is six months or less, and page charges (\$35/page) are very reasonable. The *Journal* accepts regular articles (12-20 manuscript pages), scientific notes (2-5 pages), and will accept Letters to the Editor. The *Journal* also seeks series of manuscripts that result from

special workshops or conferences. In these cases, a special editor may be appointed. All manuscripts should be sent to:
David White, Editor J-KAS
Hancock Biological Station
561 Emma Drive
Murray KY 42072

Instructions for authors can be found at www.kyscience.org. Please call 270-474-2272 or e-mail the editor at david.white@murraystate.edu for more information.

New Science Café Website

The WGBH Educational Foundation, in association with the scientific research society Sigma Xi, has launched a comprehensive website at www.sciencecafes.org to promote the growing Science Café movement in the U.S.

At Science Cafés, scientists and engineers share their expertise in a relaxed, friendly setting. Topics have been wide-ranging, from bird flu, human space flight, chaos and global warming, to the Irish Potato famine, green building, the ivory-billed woodpecker, honeybees and dark energy/dark matter.

Sciencecafes.org is designed to assist in all aspects of planning and promoting these events, from publicizing and supporting them, to choosing topics, speakers and venues. The site was created with the help and input of many science café organizers and also features an interactive map to locate where around the country cafés are being held. The new website is an outgrowth of the first national conference of Science Café organizers held at the Sigma Xi Center in 2006 by WGBH and Sigma Xi's Public Understanding of Science program.

"By taking science to the people, Science Cafés help to personalize and demystify complex subjects, bringing science into everyday conversation, where it truly belongs," said Laura J. Nigro, who runs Sigma Xi's Public Understanding of Science program. "This partnership combines NOVA scienceNOW's compelling video with the educational outreach of WGBH and Sigma Xi's unprecedented access to the nation's top researchers. As partners, WGBH and Sigma Xi have supported the Science Café movement from its early beginnings in the U.S. The sciencecafes.org website is a powerful resource that will bring together the science café community and help new cafés get started."

"It has been a delight to watch the popularity of science cafés grow in the United States with the support of our organizations," said Julie Benyo, director of educational outreach for WGBH. "From a handful of cafés a few years ago to more than 50 in the U.S. today, the café format has proven that people of all ages and backgrounds enjoy talking over the latest developments in science."

Currently, the sole Kentucky venue listed at sciencecafes.org is Café Scientifique at the Blue Mountain Coffee House Wine & Tapas Bar in Louisville - www.cafescientifique.org/louisville.htm.



WGBH Boston is America's preeminent public broadcaster, producing such celebrated series as NOVA, Masterpiece Theatre, Antiques Roadshow, Frontline, American Experience, etc. WGBH is also the leading producer of online content for www.pbs.org. Visit WGBH on the web at www.wgbh.org.

Founded in 1886, Sigma Xi has about 60,000 members and 520 chapters at colleges and universities, government laboratories and industry research centers in North America and around the world. The non-profit society publishes the award-winning American Scientist magazine and sponsors a variety of programs that support science and engineering. Visit www.sigmaxi.org for more information.

Café Scientifique at Blue Mountain Coffee House

Café Scientifique at the Blue Mountain Coffee House Wine & Tapas Bar in Louisville is attempting to advance science, but in a different way. Nicholas Arno, General Manager, told KAS Executive Director Jeanne Harris, "We are moving the discussion into the public arena, where the academics come to the public in 'free-access' forums. We are always looking for help with both speakers and topics. We have no specific focus on the sciences and welcome environment, robotics and the like, as it pertains to the advancement of science."

The topic of the initial café, held Friday, July 13, was *The Impact of Vaccines on Public Health*; the speaker was Dr. Ben Jenson, Co-Discoverer/Inventor of the recently released cervical cancer vaccine. The co-host was Dr. Jon Klein, M.D., PhD, from the James Graham Brown Foundation, co-organizer of Café Scientifique Louisville. The first session, attended by some 34 guests, was well received.

September's speaker will be the chief veterinarian from the Louisville Zoo on the topic *The Role of Zoo in Species Preservation*; the exact date has not been finalized.

Individuals interested in participating in future programs may contact:

Nicholas Arno, General Manager
Blue Mountain Coffee House Wine & Tapas Bar
400 E. Main [Opposite Slugger Field]
Louisville, KY 40202
(502) 582-3220
rnicholas@BlueMountainCoffeeHouse.Com

NOVA scienceNOW Science Cafés Evaluation

A summary of a report completed in May 2007 by Goodman Research Group for NOVA scienceNOW is available online at www.sciencecafes.org/q_2007_study.pdf. A total of 22 Café Organizers, 51 Scientists who presented at a Science Café, and 149 Café Attendees participated in the Web surveys.

Over half of the Attendees selected learning new information, the chance to have an interaction with a scientist, and the topics as their favorite things about the Café. Over three-fourths of Attendees (81%) said they had recommended the Science Café to others. Attendees indicated that after attending they: discussed Café topics with family, friends, or colleagues (83%); tried to stay more up to date on cutting edge science topics in general (71%); read a newspaper article (66%), science magazine (50%) or a book (26%) about a topic they learned about at a Café.

Overall, 88% of Scientists were very or extremely satisfied with their Science Café experiences. Approximately one-third of the Scientists (38%) believed that presenting at the ScienceCafé changed how they think about talking to a general audience about their work. Interacting with the public, professional development, public education, outreach and exposure, and promoting a positive image of science/scientists were the most commonly reported benefits of presenting at a Science Café.

KJAS Kentucky Junior Academy of Science

Call for Nominations to KAS Governing Board

The Junior Academy was begun over fifty years ago to foster an interest in science for middle school and high school students in Kentucky. 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 Ky Academy of Science.

Visit the KJAS website at www.kyjas.org for more information, or contact KJAS Director Ruth Beattie at rebeat1@email.uky.edu.

Employment Opportunities Listed at www.kyscience.org

Biotechnology Center Coordinator at Western Kentucky University: For more information visit the Biotechnology Center's home page at <http://biotech.wku.edu>.

Two offices were omitted from the last call for nominations by oversight. 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. Nominations are requested for the following offices:

- Secretary
- Treasurer

Any member may nominate another member for these offices. Please send nominations by September 21st to:

David Olson, Chair
 KAS Committee on Nominations and Elections
 Department of Psychology
 150 University Bldg Box 687
 Morehead State University
 Morehead, KY 40351

(606) 783-2987
d.olson@morehead-st.edu

To submit information to the KAS Newsletter, please contact Susan Templeton, Newsletter Editor, via e-mail (susan.templeton@kysu.edu) or phone (502) 597-6030.

Yes, I Want to Join the Kentucky Academy of Science

Check appropriate boxes

Individual Membership

(January to December)

- \$35 Active Member
- \$15 Student member (College)
- \$10 KJAS member (K-12)
- \$50 Family member
- \$400 Life member

Educational/Industrial Affiliate Membership

- \$5,000 Patron
- \$2,000 Associate Patron
- \$1,000 Fellow
- \$500 Sustaining Member
- \$250 Member
- \$100 Associate Member
- \$25 High School Member

Check up to 3 sections of interest:

- Agricultural Sciences
- Anthropology & Sociology
- Botany
- Cell & Molecular Biology
- Chemistry
- Computer & Information Sciences
- Ecology & Environmental Science
- Engineering
- Geography
- Geology
- Health Sciences
- Mathematics
- Microbiology
- Physics & Astronomy
- Physiology & Biochemistry
- Psychology
- Science Education
- Zoology

Voting Section Choice _____

Payment Enclosed \$ _____

Name _____

Street _____

City _____ State _____ Zip _____

Employer or School _____

E-mail _____

Please make checks payable and mail to:

The Kentucky Academy of Science
 PO Box 22579
 Lexington, KY 40522-2579

For questions regarding KAS call 859-227-2837

(TENTATIVE PROGRAM)

93rd ANNUAL MEETING OF THE KENTUCKY ACADEMY OF SCIENCE

Co-Hosted by UNIVERSITY OF LOUISVILLE and BELLARMINE UNIVERSITY

THURSDAY, NOVEMBER 8, 2007

2:00 p.m. - 5:00 p.m. KAS Governing Board Meeting
5:30 p.m. - 7:00 p.m. Registration
6:30 p.m. - 8:30 p.m. SYMPOSIUM
"Human Biomarkers"
Dr. Harrell E. Hurst - University of Louisville
Dr. Steve Myers - University of Louisville
8:30 p.m.- 9:00 p.m. KAS Sectional Officers Meeting
8:30 p.m. - 10:30 p.m. Social

FRIDAY, NOVEMBER 9, 2007

7:00 a.m. - 8:30 a.m. KAS Past President's Breakfast
7:30 a.m. - 5:00 p.m. Registration
8:00 a.m. - 5:00 p.m. Vendor's Exhibits
8:00 a.m. - 11:30 a.m. Paper Sessions
8:00 a.m. - 11:30 a.m. Scientific Posters on Display (Session 1)
9:00 a.m. - 10:30 a.m. Judging of URC Posters
10:00 a.m.- 11:30 a.m. Kentucky Community Colleges Faculty Meeting
11:30 a.m. - 12:45 p.m. Lunch (on your own)
1:00 p.m. - 4:00 p.m. Paper Sessions
1:00 p.m. - 5:00 p.m. Scientific Posters on Display (Session 2)
1:30 p.m. - 3:30 p.m. Judging of URC Posters
4:15 p.m - 5:15 p.m. PLENARY SESSION
"Nutrigenomics: The Marriage Between Molecular Biology & Nutrition"
Dr. Karl Dawson - Alltech
6:00 p.m. - 7:00 p.m. Presidential Reception
7:00 p.m - 9:00 p.m. ANNUAL AWARDS BANQUET (Bellarmine University)
"Influenza - Seasonal, Avian and Pandemic: Local Implications for a Global Disease"
Dr. Nila Dharan
Epidemic Intelligence Service Officer
Centers for Disease Control - Prevention Influenza Division

SATURDAY, NOVEMBER 10, 2007

7:30 a.m. - 11:30 a.m. Registration
8:00 a.m. - 11:00 a.m. Vendor's Exhibits
8:00 a.m. - 9:00 a.m. KAS ANNUAL BUSINESS MEETING
9:15 a.m. until done Paper Sessions

WORKSHOPS

9:15 a.m. - 10:30 a.m. "Physiology of Fitness....Exercising the Mind and Body!"
Frontiers in Physiology: Inquiry Methods for the Classroom
An American Physiological Society (APS) Frontiers in Physiology
University of Louisville Local Site Team Workshop Free for Middle and High School Teachers
Jeff C. Falcone, PhD, Department of Physiology & Biophysics, University of Louisville
Program limited to 30 participants, please RSVP to executivedirector@kyscience.org to reserve your space.

9:15 a.m. - 10:30 a.m. Panel Discussion
"EPSCoR's Impact on Kentucky and How EPSCoR Helps University Faculty"
Dr. Wimberly Royster - University of Kentucky
Dr. John Mateja - Murray State University
Dr. Ben Malphrus - Morehead State University

Visit the KAS website to learn more about our renowned 2007 speakers!



Kentucky Academy of Science

PRE-REGISTRATION FORM
93rd ANNUAL KAS MEETING

NOVEMBER 8-10, 2007

Hosted by: The University of Louisville and Bellarmine University

PLEASE PRINT

Name Badge to Read
Street Address
City, State, Zip
School/Employer
Email Address
Telephone Number
KAS Section (if member)

Meeting Pre-Registration Fee Schedule

2007 KAS Member Rate

Table with 2 columns: Member Type, Rate. Rows: KAS Regular Member (\$30.00), KAS Student Member (\$5.00)

Non Member Rate

Table with 2 columns: Member Type, Rate. Rows: Professional (\$55.00), Student (\$5.00)

Friday KAS Awards Banquet Tickets (based on availability) \$25/Each
Number of tickets you are purchasing @ \$25 each

NOTE Banquet is free to students entering the URC (Undergraduate Research Competition). However, you MUST PRE-REGISTER to receive a free ticket. Check here if you are entering the URC competition and wish to receive one free banquet ticket: Yes No

2008 KAS Membership Dues

Table with 2 columns: Member Type, Rate. Rows: Regular Member (\$35.00), Family Member (\$50.00), Student Member (\$15.00), Life Member (\$400.00)

PRE-REGISTRATION/2008 KAS MEMBERSHIP TOTAL \$

Received by Date

Return Form and Payment to:

KAS

PO Box 22579

Lexington, KY 40522-2579

PRE-REGISTRATIONS ACCEPTED UNTIL OCTOBER 20, 2007

For questions regarding registration please contact Jeanne Harris at 859-227-2837.or executivedirector@kyscience.org

PAPER SUBMISSION FORM

KENTUCKY ACADEMY OF SCIENCE

93rd ANNUAL MEETING

Co-hosted by the University of Louisville & Bellarmine University

Louisville, Kentucky

November 8-10, 2007

Title of Paper (Please type or print) _____

(An abstract must be submitted with this form. See website, www.kyscience.org, 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	Undergrad	Graduate	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 student papers a member may sponsor.

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

_____ Check if entering the Graduate Research Competition. (Oral Presentations only)

Check Section in Which Paper will be Presented

_____ Agricultural Sciences	_____ Geology
_____ Anthropology and Sociology	_____ Health Sciences
_____ Botany	_____ Mathematics
_____ Cellular and Molecular Biology	_____ Microbiology
_____ Chemistry	_____ Physics and Astronomy
_____ Computer & Information Science	_____ Physiology and Biochemistry
_____ Ecology & Environmental Science	_____ Psychology
_____ Engineering	_____ Science Education
_____ Geography	_____ Zoology

Type of Presentation (Check one)

_____ Oral Presentation using Power Point (15 min. max.) - load presentation prior to beginning of session

_____ 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.

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 **October 6, 2007** 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: robertcreek@bellsouth.net.

PLEASE NOTE: In order to present you MUST also register to attend the annual meeting.

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 10cpi (12 -point) 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 abbreviation 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

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. Please send your abstract as an email attachment in Word to robert.barney@kysu.edu and mail 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
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