



Kentucky Academy of Science

NEWSLETTER

<http://www.kyscience.org>

January 2007

The Voice of Science in Kentucky

Affiliates

Fellow - \$1,000 level

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

Sustaining Member - \$500 level

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

Member - \$250 level

- Asbury College
- CEM Corporation
- Centre College
- 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 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

From the President....

I am honored to be President of such a unique organization as the Kentucky Academy of Science (KAS) whose goals are to support and enhance the practice of science and the education of young scientists throughout the Commonwealth. To be sure, there is a definite need for such an organization, which can look beyond individual institutional missions, to provide a venue for cooperation and a network for collaboration in research and science education. So, my congratulations to all of you who have contributed so much to this spirit of cooperation over the years, to you who nurtured the KAS in the 20th century, and to all who brought KAS to its present status in this new millenium.

We all know that we have great scientists and educators in KY, but we also know that science in our state still has a long way to go before it is recognized as being truly competitive at the national level. To become more competitive with other states we need to find new ways to develop collaborations between our scientists and our institutions. To use a sports analogy, we need a KY all-stars team, with contributions from all institutions, so that we can play in the national arena of science. Therefore, I urge all college presidents, deans, and departmental chairs, as well as CEOs of all science related businesses, and leaders of all science organizations in KY to support the KAS in its endeavors to provide a larger multi-institutional framework for science in KY. The KAS is one of the few local vehicles through which we can advance our common goal to be in the forefront of the nation's scientific enterprise. You can make a good start by encouraging your science and engineering faculty to join KAS and by encouraging your science and engineering students to make presentations of their research at the KAS annual meeting in November. Through such actions we will be able to build science capacity through collaboration and build pipelines to successful careers for our students.

At our February 2006 retreat, we identified our new motto "KAS - The Voice of Science in KY" which is now highlighted in a few places on our wonderfully refurbished website (www.kyscience.org). Also a multi-year plan of action was developed and subsequently honed by the KAS Board. We will submit this plan to our website in the near future so that you can all participate in its implementation. We will also hold a February or March retreat this year, at which we will engage our committees in the task of implementing the most important action-items as soon as possible. Our top priority must be to increase the level of our membership beyond its current 700 members. Just as the boundaries of science are continually adapting and growing, we too need to continue to adapt and grow. So, on behalf of the KAS Board, I urge those of you who are not yet members, to join a great community of scientists, get involved, and help KY-science realize its full potential.

Nigel Cooper

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Annual Meeting Report

The 92nd meeting of the Kentucky Academy of Science was held at Morehead State University November 9-11, 2006. The meeting was very well attended with 647 people registered, including 337 students.

Activities started on Thursday evening with a Symposium entitled "Evolutionary Theory, Dinosaurs and Birds" with presentations from Dr. Robert Martin of Murray State University, Dr. Luis Chiappe of the Natural History Museum of Los Angeles County, and Dr. Larry Martin of the University of Kansas. A Geography Symposium on Friday afternoon focused on "Building the Kentucky Mesonet Consortium" while the Friday Plenary Session featured Dr. Robert Cohn of the University of Louisville speaking on "Nanotechnology." The Awards Banquet speaker was Dr. James K. Rowlett of the Harvard Medical School, who spoke on "Valium Revisited: CNS Targets for the Treatment of Anxiety Disorders" to over 300 banquet attendees. Saturday morning workshops included "How Do We Explain the Diversity of Life on Earth" and "Submitting Federal Proposals via grants.gov".

There were 229 oral presentations with 89 in the Undergraduate Research Competition (URC) and 30 in the Graduate Research Competition (GRC). There were 133 poster presentations, with 95 in the URC.

Presentations by Section	Total	URC	GRC
Agricultural Science	22	7	5
Anthropology & Sociology	10	2	0
Botany	9	1	0
Cellular & Molecular Bio.	16	15	1
Chemistry	14	11	1
Computer & Infor. Science	12	4	3
Ecology & Environ. Science	18	8	4
Engineering	6	2	0
Geography	10	0	1
Geology	21	4	1
Health Sciences	7	4	0
Mathematics	9	0	1
Microbiology	3	2	1
Physics & Astronomy	16	9	0
Physiology & Biochemistry	15	7	2
Psychology	14	9	3
Science Education	14	1	2
Zoology	13	3	5

Next year's meeting will be co-hosted by the University of Louisville and Bellarmine University, in Louisville, KY on November 8-10, 2007.

2006 Undergraduate Research Competition Winners

Congratulations to the following students who won awards. Congratulations also to their mentors and a special thanks to those who devoted their time to judge the presentations. Oral presentation winners are listed by place; only first place was awarded for posters.

AGRICULTURAL SCIENCES

- 1st: Yoon-Hyeon Hu, Ky State U.
- 2nd: Carmen Haynes, Ky State U.
- 3rd: Michael Somuah, Ky State U.

ANTHROPOLOGY & SOCIOLOGY

- 1st: Laura Robbins, Northern Ky U.
- 2nd: Samantha Wang, Ky State U.
- 3rd: Meghan Zahrdt, Northern Ky U.
- 4th: Melony Stambaugh, Northern Ky U.

BOTANY

- 1st: Channing Richardson, Morehead State U.
- Poster: Suzanne D. Truesdell, Northern Ky U.

CELLULAR & MOLECULAR BIOLOGY

- 1st: Katharina Hopp, Brescia
- 2nd: David Soleimani-Meigooni, U. of Louisville
- 3rd: Tammy Lundblad, Centre
- Poster: Sharon Lee, Eastern Ky U.

CHEMISTRY

- 1st: Jordan Kass, Eastern Ky U.
- 2nd: Becca M. Sandlin, Western Ky U.
- 3rd: Kristina Keck, Berea College
- 4th: Shannon Logan, Murray State U.
- Poster: Christopher D. Poteet, Western Ky U.

COMPUTER & INFORMATION SCIENCE

- 1st: Todd Willey, U. of Ky
- 2nd: Leslie Slasor, Eastern Ky U.
- 3rd: Siaw Li Chan, Eastern Ky U.
- Poster: tie: Nkiruka Ezenwajiaku, Eastern Ky U., Mustapha B. Bojang, Eastern Ky U.

ECOLOGY & ENVIRONMENTAL SCIENCE

- 1st: Emilie Throop, Berea College
- 2nd: Jonathan Bowers, Western Ky U.
- 3rd: Cabrina Hamilton, Western Ky U.
- Poster: Jeremiah Alexander, Eastern Ky U.

ENGINEERING

- 1st: Toby Hale, Morehead State U.
- 2nd: Trisha Edington, Morehead State U.

GEOGRAPHY

- 1st: Ashley Littell, Western Ky U.
- Poster: Jill Hunter, NA

GEOLOGY

- 1st: Neil Russell, U. of Ky
- 2nd: Nathan Landrum, U. of Ky

- 3rd: Megan Ennis, Morehead State U.
- 4th: Wesley Smith, Morehead State U.
- Poster: Damon Dye, Northern Ky U.

HEALTH SCIENCES

- 1st: Samuel Adediran, Berea College
- 2nd: Drew Duerson, Bellarmine U.
- 3rd: Heather Short, Ky State U.
- 4th: Stephen Fowler, Bellarmine U.
- Poster: K. Clark, Berea College

MICROBIOLOGY

- 1st: Brittany Hale, Asbury College
- 2nd: Ashley N. Tepe, Northern Ky U.
- Poster: Clint Banks, Morehead State U.

PHYSICS & ASTRONOMY

- 1st: Kannatassen Appavoo, Berea College
- 2nd: Brady Doepke, Morehead State U.
- 3rd: Vishal Nazareth, Thomas More College
- 4th: James Atwood, Morehead State U.

- Poster: Brady Doepke, Morehead State U.

PHYSIOLOGY & BIOCHEMISTRY

- 1st: Courtney Thomason, Murray State U.
- 2nd: Adam Pfendt, Wood Hudson
- 3rd: Ronald R. Gilley, Western Ky U.
- 4th: Marques D. Hogan, Ky State U.
- Poster: Ryan D. Grey, Morehead State U.

PSYCHOLOGY

- 1st: Clell Watts, Morehead State U.
- 2nd, Tie: Joseph Mayhorn, Morehead State U.
- 2nd, Tie: Amanda Pieratt, Morehead State U.
- 3rd: Courtney Brown, Morehead State U.
- Poster: Lindsey Newberry, Morehead State U.

SCIENCE EDUCATION

- 1st: Ashley N. Wallace, Bellarmine
- Poster: Emily Jean Hicks, ECU

ZOOLOGY

- 1st: Bobby Cassady, Centre College
- 2nd: Amanda Webb, Western Ky U.
- Poster: Brittany Wright, Pikeville College

Kentucky Academy of Science Governing Board Changes

The Nominations and Elections Committee congratulates those who won election to office and expresses sincere appreciation to all those willing to serve the Academy by allowing their names to be placed into nomination.

Newly elected Board members:

Vice-President – Robin Cooper, UK

Discipline Representatives:

Physical Sciences – Eric Jerde, Morehead State University

Social & Behavioral Sciences – Ken Tankersley, Northern
Kentucky University

Board members retiring:

Bruce Mattingly, Past President;

Mark Blankenbuehler, Physical Sciences Rep.;

David Hogan, Social & Behavioral Sciences Rep.

Ken Carstens resigned from the Board and Robert Kingsolver has been appointed Board Secretary to fill his vacant position.

Messages from the Executive Director

The coming year promises to be an exciting year for the Kentucky Academy of Science! Mark your calendars for the 2007 KAS Annual Meeting co-hosted by the University of Louisville and Bellarmine University November 8, 9, and 10.

So that KAS can keep you informed regarding the 2007 Annual Meeting and other Academy events, please update your contact information in the KAS online database as needed. Feel free to contact me if you have any problems logging into the KAS webpage (www.kyscience.org) or need any other assistance. Also, while you are logged into the website, don't forget to update your KAS Membership for 2007 so that you will be listed in the KAS online directory.

The Sixth Annual *Posters-at-the-Capitol* will be held February 15, 2007 during the legislative session in Frankfort. This event is designed to celebrate the research, scholarly, and creative experiences of undergraduate students at Kentucky's eight public universities.

The April KAS Board Meeting and KAS Board Retreat will be held on the afternoon of Friday, April 20, and the afternoon of Saturday, April 21 at Campbellsville/Campbellsville University.

Best wishes,

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

Congratulations to the following winners of door prizes at the 2006 KAS Annual Meeting:

- Marcia Pierce (EKU) - \$25 Staples
- Terisa Hall (Phelps Elementary School) - \$25 Staples
- Martha Marlette (KSU) - \$25 Office Max

Director of the KY Junior Academy of Science Sought

The KAS is now recruiting applicants for the following position: Director of the Kentucky Junior Academy of Science.

Job Description: The Director of the Junior Academy of Science is responsible for administration of all activities of the Junior Academy. The Director shall cooperate with the Junior Academy Steering Committee to develop and promote the Junior Academy as the principle science education outreach of the Academy. He/she shall plan and conduct the annual spring Symposium of the Junior Academy and shall publicize this and other Junior Academy events. He/she shall periodically provide reports to the Governing Board on the activities of the Junior Academy.

I. GOALS

- Promote and foster an interest in science for high school and middle school students in Kentucky,
- Coordinate and oversee all aspects of the KJAS annual meeting,
- Oversee all administration duties of the Junior Academy, and
- Recruit and retain new schools and new individuals into the Junior Academy.

II. RESPONSIBILITIES

- Review all current Junior Academy operations and materials for content and consistency to the KAS,
- Research other Junior Academies and summarize important components of these programs,
- Produce a more detailed version of the responsibilities and tasks of the Junior Academy,
- Assemble a list of potential judges and resource persons for the annual meeting,
- Develop a database of potential schools to join, including the names, addresses, phone numbers, and e-mail addresses of principle contacts.
- Develop a comprehensive plan to promote the Junior Academy,
- Oversee all on-site and day-to-day operations of annual meeting from finding a location, soliciting vendors, to securing rooms and other accommodations,
- Twice per year, disseminate information via a newsletter, about the Academy, its annual meeting, and the national organization's activities,
- Attend the quarterly KAS Board meetings and the annual national meeting of the American Junior Academy of Sciences,
- Provide quarterly reports to the KAS Board.

III. Stipend

- \$1000/annually

Please submit a letter of interest and current CV by February 15th to:

Dr. Chris Lorentz, Chairman
KAS Committee on Science Education
Chris.Lorentz@Thomasmore.edu

2006

Superlative Awards

OUTSTANDING UNIVERSITY TEACHER/SCIENTIST

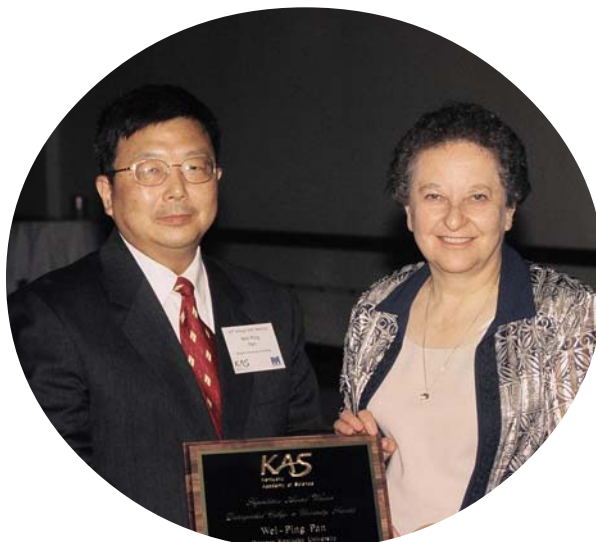


KAS President Miriam Kanan (right) presents this award to Dr. Terry Derting, Murray State University.

The recipient of the 2006 Outstanding College/University Teacher Award is Dr. Terry Derting, Professor of Biological Sciences at Murray State University. Dr. Derting received her doctorate from Indiana University; M.A from Virginia Polytechnic Institute; and B.A. from Mount Holyoke College. She is a member of numerous professional organizations, including the American Society of Mammalogists, Association of College and University Biology Educators, Council on Undergraduate Research, and the BioQUEST Curriculum Consortium. She has served as the President and Vice President of the Association of College and University Biology Educators; as associate editor of *Undergraduate Research in Behavior, Ecology and Evolution*; and as president of the Murray Chapter of Sigma Xi. As stated in one of her letters of support for the Superlative award, “Dr. Derting is the essence of a scientist and teacher.” She not only practices the paradigm shift that we advocate in undergraduate education – moving from “me as the teacher” in center stage to “you as the learner” – she’s helped invent it and helped others adopt it.

DISTINGUISHED SCIENTIST

The recipient of the 2006 Distinguished College/University Scientist Award is Dr. Wei-Ping Pan, Professor of Chemistry at Western Kentucky University. Dr. Pan received his undergraduate education at Chun-Yuan University and later completed both his master’s and doctoral education at Michigan Technological University. Dr. Pan is a member of numerous professional organizations, including the American Chemical Society, International Confederation for Thermal Analysis and Calorimetry, North American Thermal Analysis Society, and the American Society of Test Methods. Dr. Pan is a Fellow of the North American Thermal Analysis Society, a past president of the organization, and the recipient of the Society’s 2004 Service Award. Dr. Pan is an internationally-recognized leader in clean coal technologies that will help coal-fired power plants meet EPA’s new, more stringent mercury emissions standards. He is a respected expert in thermal analysis, combustion science, and mercury emissions.



KAS President Miriam Kanan (right) presents this award to Dr. Wei-Ping Pan, Western Kentucky University.

OUTSTANDING SECONDARY SCHOOL SCIENCE TEACHER

The 2006 recipient of the Outstanding Secondary School Science Teacher Award is Ms. Kim Black, lead science teacher at Elizabethtown High School. Ms. Black received both her bachelor's and master's degree from Western Kentucky University. She serves on her school's Professional Development Committee and is the chairperson of their Science Curriculum Development Committee. Ms. Black was the lead teacher in an effort that has increased the performance of Elizabethtown High School students on the CATS science test over the past three years by 14%. Words used to describe Ms. Black by a senior member of her system's administration include "model teacher", "outstanding" and "one of the top teachers with whom I have been associated with in my twenty-one year tenure in education."



KAS President Miriam Kanan (right) presents this award to Kim Black, Elizabethtown High School

OUTSTANDING ACADEMY SERVICE



KAS President Miriam Kanan (right) presents this award to Ms. Elizabeth Kay Sutton, Campbellsville University

The recipient of the 2006 Outstanding Academy Service Award is Ms. Elizabeth Kay Sutton, Instructor of Chemistry at Campbellsville University. Ms. Sutton received both her bachelor's and master's degrees from Eastern Kentucky University. She began her tenure at Campbellsville University in 1986. Ms. Sutton is a member of the American Chemical Society and the Kentucky Academy of Science. She is past Director of the Kentucky Junior Academy of Science and has served on the KAS board. As Director of the KAS Junior Academy, she has been responsible for organizing and hosting the annual Junior Academy spring event. One of the letters of recommendation for this award stated, "The Junior Academy occurred due to Kay's dedication, enthusiasm, and plain old hard work." She made the event what it has become, with the 2006 KJAS Spring Symposium hosting 110 student presentations, the largest number on record.

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: November 15, 2007. Detailed instructions for preparing proposals can be found on our web site at www.kyscience.org. For more information contact:

George F. Antonious, Ph.D.
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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

Graduate Research Competition Winners

AGRICULTURAL SCIENCES

- 1st: Ashley Monfort, Western Kentucky University
- 2nd: Travis Bailey, Kentucky State University
- 3rd: Kyle Daniel, Western Kentucky University

BOTANY

- 1st: Amy McIntosh, Eastern Kentucky University

CELLULAR & MOLECULAR BIOLOGY

- 1st: Christopher M. Whitaker, University of Louisville

CHEMISTRY

- 1st: Prasanna Kudimvscula, Murray State University
- 2nd: Suresh Nune, Murray State University

COMPUTER & INFORMATION SCIENCE

- 1st, Tie: Aladdin Al-Haddad, Eastern Kentucky University
- 1st, Tie: Elizabeth Cha, University of Louisville
- 2nd: Elissaveta Arnaoudeva, University of Kentucky

ECOLOGY & ENVIRONMENTAL SCIENCE

- 1st: Catherine Byers, University of Louisville
- 2nd: Chad Hanna, University of Louisville
- 3rd: E. Natasha Vanderhoff, University of Louisville

GEOLOGY

- 1st: Eric Anderson, University of Kentucky
- 2nd: Tammy Jones, Eastern Kentucky University
- 3rd: Matt Caddell, Eastern Kentucky University
- 4th: David Deigert, Eastern Kentucky University

MATHEMATICS

- 1st: Brandon Williams, Kentucky State University

MICROBIOLOGY

- 1st: Margaret Grosser, Murray State University

PHYSICS

- 1st: Jennifer Carter, Morehead State University

PHYSIOLOGY & BIOCHEMISTRY

- 1st: Caodi Fang, University of Kentucky
- 2nd: Julie B. Schuck, Eastern Kentucky University

PSYCHOLOGY

- 1st: Lisa D. Hinkle, Morehead State University

Griffith Memorial Award

- 1st (Tie): Sarah M. Rumbley, Morehead State University
- 1st (Tie): Luke K. Sherrill, Morehead State University
- 2nd: Lisa D. Hinkle, Morehead State University

SCIENCE EDUCATION

- 1st: Joann M. Lau, Bellarmine

ZOOLOGY

- 1st: Jodi Stacy, Eastern Kentucky University
- 2nd: Jason Fisher, Eastern Kentucky University
- 3rd: Gabe Jenkins, Eastern Kentucky University

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.

2007 KAS Grant Recipients

SPECIAL RESEARCH PROGRAM

Daikwon Han, Morehead State University: Spatial Analysis of Breast Cancer in Kentucky, \$9,304

UNDERGRADUATE RESEARCH PROGRAM

Sarah Weidinger/Melissa Burns-Cusato, Centre College: Proxi-mate Mechanisms Underlying Monogamy in Ring Neck Dove: The Nature of the "Nest-Bond", \$565

Karen Burwinkel/David Thompson, Northern Kentucky University: Cytochrome P50 1A1 and Arsenic in Benzo(a)pyrene-induced Carcinogenesis, \$2,631

MARCIA ATHEY FUND

Stephanie Galla/Dayle Saar, Murray State University: Taxonomic Status and Natural History of an Exceptionally Large-leafed Mulberry (*Morus rubra*: Moraceae) in Western Kentucky, \$488.66

Christine Lattin/Gary Ritchison, Eastern Kentucky University: Intra- and intersexual functions of singing by male Blue Grosbeaks (*Guiraca caerulea*): the role of within-song variation, \$1,308.20

BOTANY FUND

No proposals were funded.

2007 Sectional Officers

<u>SECTION</u>	<u>CHAIRPERSON</u>	<u>SECRETARY</u>
Agricultural Sciences	Norm Strobel Norman.strobel@kctcs.edu	Michael Bomford Michael.Boomford@kysu.edu
Anthropology & Sociology	Changzheng Wang changzheng.wang@kysu.edu	Kenneth B. Tankersley cavetank@aol.com
Botany	David Taylor dtaylor02@fs.fed.us	Maggie Whitson whitsonma@nku.edu
Cellular & Molecular Biol.	Steve Wilt swilt@bellarmine.edu	Mary Huff mhuff@bellarmine.edu
Chemistry	Bommanna Loganathan bommanna.loganathan@murraystate.edu	Eric Dueno eric.dueno@eku.edu
Computer & Information Sciences	Eric Rouchka eric.rouchka@louisville.edu	Jerzy W. Jaromczyk (859)257-1186
Ecology & Environmental Science	Scott A. Grubbs scott.grubbs@wku.edu	Robert W. Kingsolver kingsolver@bellarmine.edu
Engineering	Charles Patrick c.patrick@moreheadstate.edu	
Geography	Rick Sambrook richard.sambrook@eku.edu	Tyler Huffman tyler.huffman@eku.edu
Geology	Daniel J. Phelps edrioasteroid@msn.com	Frank R. Etensohn fettens@uky.edu
Health Sciences	Susan Templeton susan.templeton@kysu.edu	Martha Marlette martha.marlette@kysu.edu
Mathematics	Russell J. May r.may@moreheadstate.edu	Mark Robinson mark.robinson@wku.edu
Microbiology	Geoff Gearer g.gearer@moreheadstate.edu	Marcia Pierce marcia.pierce@eku.edu
Physics & Astronomy	Jennifer Birriel j.birriel@moreheadstate.edu	Ignacio Birriel i.birriel@moreheadstate.edu
Physiology & Biochemistry	Lingyu Huang Lingyu.huang@kysu.edu	Cecil Butten n5rc12@aol.com
Psychology	Cary Fera c.feria@moreheadstate.edu	Brent White bcwhite@centre.edu
Science Education	Margaret Crowder margaret.crowder@wku.edu	Jennifer Myka Jennifer.myka@thomasmore.edu
Zoology	Robert Ziemba ziemba@centre.edu	David Peyton d.peyton@moreheadstate.edu



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.

The KJAS 2007 Spring Symposium will be Saturday, April 21, 2007 at Campbellsville University. Paper and Abstract Deadline will be March 15, 2007.

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 www.kjas.org or contact the KJAS office at:

Kentucky Junior Academy of Science
 P.O. Box 22579
 Lexington, KY 40522-2579

KAS Members:
Judges are needed for the KJAS Spring Symposium. Please contact eksutton@campbellsville.edu to volunteer. Thanks.

KENTUCKY SCIENCE AND ENGINEERING FAIR (KY-SEF)

The Academy has always been a strong advocate of science education as evident by the KJAS and the URC. Another opportunity for the members of the Academy to support our young student scientists is to be a judge at the Kentucky Science and Engineering Fair. The fifth annual state-wide Kentucky Science and Engineering Fair will be hosted by Eastern Kentucky University in Richmond, KY on March 30-31, 2007. KY-SEF will provide the opportunity for more than 160 young student scientists from throughout the Commonwealth of Kentucky to compete for scholarships and prizes. KY-SEF is affiliated with the Intel International Science and Engineering Fair which has students from around the world participating. Intel ISEF provides the opportunity for the Best of Fair from KY-SEF and the regional science fairs to go to Intel ISEF this spring at Albuquerque, New Mexico to compete for additional scholarships and prize money. In 2006, 38 Best of Fair winners representing Team Kentucky attended Intel ISEF at Indianapolis, Indiana where they represented the Commonwealth extremely well in winning over \$150,000 in scholarships and prize money. In order for KY-SEF to be successful we will need judges to evaluate the research of these young scientists. We would strongly encourage the members of the Academy to volunteer to be judges at KY-SEF on Saturday, March 31, 2007. You may register to be a judge at our web site at <http://kysef.edu> or by contacting one of us.

Dr. Barbara Ramey
 Chair, Local Arrangement Comm.
 Dept. of Biological Sciences
 Eastern Kentucky University
 Richmond, KY 41475
 (859)622-1543
barbara.ramey@eku.edu

Dr. Robert Creek
 Director of KY-SEF
 Dept. of Biological Sciences
 Eastern Kentucky University
 Richmond, KY 40475
 (859)622-1539
robert.creek@eku.edu

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