



Kentucky Academy of Science

# NEWSLETTER

<http://kas.wku.edu/kas/>

January 2006

## Industrial Affiliates

Associate Patron - \$2,000 level  
Touchstone Energy

Associate Member - \$100 level  
Hoffman Environmental  
Research Institute  
Third Rock Consultants  
Wood Hudson Cancer  
Research Laboratory

## Institutional Affiliates

Fellow - \$1,000 level  
Kentucky Biomedical  
Research Infrastructure  
Network  
Morehead State University  
University of Kentucky  
University of Louisville

Sustaining Member - \$500 level  
Berea College  
Bellarmine University  
Campbellsville University  
Eastern Kentucky University  
Kentucky State University  
Murray State University  
Northern Kentucky  
University  
Western Kentucky  
University

Member - \$250 level  
Asbury College  
Centre College  
Cumberland College  
Madisonville Community  
College  
Spalding University  
Thomas More College  
West Kentucky Community  
& Technical College

Associate Member - \$100 level  
Pikeville College

## From the President....

I want to wish all our members a happy and productive New Year. The year 2006 is likely to bring many changes to the Kentucky Academy of Science. The KAS has been serving the citizens of the Commonwealth since 1914, when it started with just 60 members. Our current membership now numbers 689. Our 91st annual meeting held at Eastern Kentucky University in November 2005, set a record in attendance with 649 registrations. At this meeting we welcomed a new Executive Director, Ms. Jeanne Harris, who brings to us considerable organizational experience, talent, energy and enthusiasm. We have placed the KAS Website in the hands of a professional web designer, Ms. Kathleen Sauer. The new one is going to be very impressive and should be available in Spring 2006.

The Academy suffered a tremendous loss in December 2005 with the death of the long-time editor of the KAS Journal, Dr. John Thieret. John, who received the Outstanding Academy Service Award at the ECU meeting, will be greatly missed. He passed away while working diligently on volume 66(2) of the JKAS. The KAS board subsequently voted to dedicate that volume to him.

It is time for the Academy to review what our mission is, how we are accomplishing this mission, and to set our goals for the future. The KAS Governing Board will have a retreat on the weekend of February 11. We hope to create a five year strategic plan for the organization. One of the topics of discussion for this retreat will be the future of the KAS Journal. Is the Journal effective in providing a forum for the presentation and publication of scientific information of significance to the Commonwealth? How can it become more effective? Should it be on-line? The annual meetings, the research grants program, the superlative awards, the KAS newsletter, will all be topics of discussion at our February retreat. I welcome suggestions from all the members as to what other topics we should cover during this retreat and what YOU would like to see the academy do, not do, or improve upon. Please e-mail your ideas and comments to me or Jeanne.

The KAS also provides "advisory assistance to the Commonwealth, as well as to local governments, in areas of science and technology". We need to expand this area of activity and do more. For example, at the annual business meeting the KAS approved a resolution to oppose any attempt by legislative bodies to mandate specific content of science courses. In particular, the KAS opposes attempts to equate "scientific creationism" or "intelligent design" with evolution as a scientific explanation for the origin of species. This resolution, summarized in this Newsletter, has been made public through a press release, and through letters mailed by our Executive Director directly to our legislators. Still, the message must reach school-board members and we need to find a way to help science educators at the K-12 level understand how to pass this message on to their students. During the retreat we will deal with the role that the Kentucky Junior Academy of Science (KJAS) should play in transmitting this message. The KJAS is also in charge of promoting the "interest of the youth of the Commonwealth in science and encouraging them to consider science as a profession". We may consider at the retreat creating a KAS special publication directed to Science Educators in KY. All ideas on how to strengthen the KJAS would be welcome.

In addition, we are continuing to update our database on the website and we need your help! Please log onto the website and check your information, especially your email address and section affiliation. If it is incorrect, incomplete, or missing entirely, please send an e-mail with the correct information to me at [kannan@nku.edu](mailto:kannan@nku.edu) or to Jeanne at [executivedirector@kyscience.org](mailto:executivedirector@kyscience.org).

Miriam Steinitz-Kannan



2005 President Bruce Mattingly passes the gavel to incoming President Miriam Steinitz-Kannan

## Inside this issue

Annual Meeting Report .....	2
Undergrad. Research Competition Winners .....	2
KAS Governing Board Changes .....	3
KAS Mourns the Passing of John Thieret .....	3
Greeting from New Executive Director .....	3
Board Appoints New Journal Editor .....	3

2005 Superlative Award Winners .....	4, 5
Special Research Funding Award for 2005 .....	6
Athey & Botany Funds Proposal Information ...	6
KAS Opposes Teaching of Intelligent Design .....	6
2006 Sectional Officers .....	7
Graduate Research Competition Winners .....	7
Ky Junior Academy of Science .....	8
KY Science and Engineering Fair .....	8
New Member Form .....	8

# Annual Meeting Report

The 91st meeting of the Kentucky Academy of Science was co-hosted by Eastern Kentucky University and Berea College at Richmond, Kentucky on Nov. 10-12, 2005. The meeting was very well attended with 649 people registered. This is believed to be the best attended annual meeting .

Activities started on Thursday evening with a Symposium that was developed by Ryan McEwan. The Symposium entitled "Landscape Dynamics in the Bluegrass Region of Kentucky" consisted of a panel discussion in which 6 experts discussed the history, present and future of the ecosystem of the Bluegrass Region of Kentucky. The Symposium was well received with over 110 in attendance. The Friday afternoon Plenary session, "Undergraduate Research: Importance and Benefits" by Dr. John Mateja had over 120 in attendance. A Friday afternoon workshop entitled "Experiments with Eggs and Larvae of the Tapeworm, *Hymenolepis diminuta* was presented by Ron Rosen. The speaker for the Annual Awards Banquet was Dr. Fred J. Roisen. His presentation, "Human Adult Olfactory Epithelial Derived Neural Progenitors: A Possible Source of Progenitors for Autologous Transplantation" was enjoyed by the approximate 270 people attending the banquet. The presentations of the KAS Superlative awards were, as usual, one of the highlights of the meeting. Following these presentations, the winners of the Undergraduate Research Competition were recognized and presented their certificates.

There were 228 oral presentations with 97 of them entered in the Undergraduate Research Competition and 42 entered in the Graduate Research Competition. There were 124 posters presentations with 93 of them entered in the URC. The number of oral presentations for each section is as follows:

Agricultural Science, 23; Anthropology & Sociology, 8; Botany & Microbiology, 21; Cellular & Molecular Biology, 16; Chemistry, 13; Computer & Information Science, 10; Ecology & Environmental Science, 9; Geography, 18; Geology, 14; Health Sciences, 5; Mathematics, 14; Physics & Astronomy, 19; Physiology & Biochemistry, 5; Psychology, 23; Science Education, 13; and Zoology, 17.

**Next year's meeting will be hosted by Morehead State University in Morehead, KY on November 9-11, 2006.**

# 2005 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: Russell Neal - KY State*  
*2nd: Daniel Starnes - Western*  
*3rd (tie): Jonathan Clark - KY State*  
*3rd (tie): Laurreta Osunde - KY State*  
*Poster: Jerry Henderson - Morehead*

## ANTHROPOLOGY & SOCIOLOGY

*1st: Tabatha Boekhout - Louisville*  
*2nd: Boram Lee - KY State*  
*3rd: Ashley Holland, Kevin Pintz and Jennifer O'Keefe - Eastern*  
*4th: Shawn Fehrenbach - Northern*  
*Poster: Sean Harris - Eastern*

## BOTANY & MICROBIOLOGY

*1st (tie): T. Michael Dodson - Western*  
*1st (tie): Tony Evans - Morehead*  
*2nd: Nick Taylor - Northern*  
*3rd: Rachel Gibson - Asbury*  
*Poster: Stephanie Bessom - Northern*

## CELLULAR & MOLECULAR BIOLOGY

*1st: Stephanie Horton - Thomas More*  
*2nd: Natalina Elliott - Western*  
*3rd: Angela Bohnen - Centre*  
*Poster: Liz Novak - Berea*

## CHEMISTRY

*1st: Lucas Speakman - Asbury*  
*2nd: Jordan Kass - Eastern*  
*3rd: Jennifer Collins - Asbury*  
*4th: Cassie Norris - Western*  
*Poster: Heather J. Gulley - Northern*

## COMPUTER & INFORMATION SCIENCE

*1st: Eren Turgay - University of Kentucky*  
*2nd: Wesley Asher - Eastern*  
*3rd: Nathan Gilbert - Morehead State*  
*4th: Lauren Stein - Eastern*  
*Poster: Brianna Paisley - Eastern*

## ECOLOGY & ENVIRONMENTAL SCIENCE

*1st: Lindsey Parsons - Berea*  
*2nd: Jonathan Bowers - Western*  
*3rd: Toni Fogel - Northern*  
*Poster: J. Michael Butler - Western*

## GEOGRAPHY

*1st: Cara Moreland - Western*  
*2nd: Joshua D. Brewer - Western*  
*Poster: Michael Albright - Eastern*

## GEOLOGY

*1st: Ashley Williams - Western*  
*2nd: Daniel Hawkins - Western*  
*3rd: Jeremy Tallent - Western*  
*Poster: Jason Koenig - Northern*

## HEALTH SCIENCES

*1st: April Newsome - KY State*  
*2nd: Harmony Marlette - KY State*  
*Poster: Partam Manalai - Berea*

## MATHEMATICS

*1st: Toby Ann Hale - Morehead*  
*2nd: Samantha Sachtleben - Morehead*  
*3rd: K. Michael Thomas, Jr. - Morehead*

## PHYSICS & ASTRONOMY

*1st: Brendon K. Chastain - Northern*  
*2nd: David Patrick Hundley - Morehead*  
*3rd: Patrick Mono - Berea*  
*Poster: James Griffith - Morehead*

## PHYSIOLOGY & BIOCHEMISTRY

*1st: Ni Ji - Berea*  
*2nd: Devki Bhatt - University of KY*  
*3rd: Marquisha Paul - KY State*  
*Poster: Scott M. Bessler - Northern*

## PSYCHOLOGY

*1st: Clell Watts - Morehead State*  
*2nd: Timothy Thornberry - Western*  
*3rd: Caitlin Szalay - Berea*  
*Poster: Joseph Mayhorn - Morehead*

## ZOOLOGY

*1st: Brenna Bulach - Centre*  
*2nd: Jacqueline Bennett - Eastern*  
*3rd: Laura McDonald - Centre*  
*4th: Leslie Beavin - Western*

## 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.

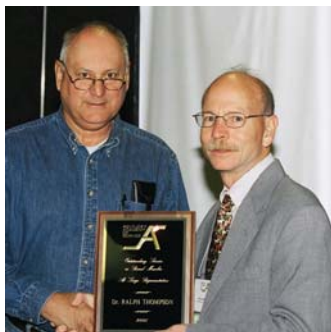
Newly elected Board members:

Vice President - John Mateja, Murray State University;  
Biological Sci. Rep. - Sean O'Keefe, Morehead State University; and  
At-Large Rep. - George F. Antonious, Kentucky State University.

Board members retiring:

Robert Kingsolver, Past President;  
Ralph Thompson; At-Large Representative and  
Tom Rambo, Biological Sciences Representative.

At the November Board meeting, Bruce Mattingly also reported the resignation of Elizabeth K. Sutton as director of the Ky Junior Academy effective after the April symposium. The KAS board is now seeking a new KJAS director.



*KAS President Bruce Mattingly presented a token of appreciation to Ralph Thompson, retiring At-Large Representative, for his years of service on the Governig Board.*

## Board Appoints New Journal Editor

The KAS Governing Board approved the appointment of David White as the Editor of the Journal of the Kentucky Academy of Science at the January meeting. Original papers based on research or review in science will be considered, also contributions to the "Scientists of Kentucky" series. Please submit articles for consideration to:

Editor, Journal of the KAS  
Dr. David S. White, Director  
Hancock Biological Station  
561 Emma Drive  
Murray, KY 42071  
Phone: 270-474-2272  
FAX: 270-474-0120  
David.White@murraystate.edu

## KAS Mourns the Passing of Journal Editor John Thieret

Dr. John Thieret, 79, died in December after suffering an aneurysm at his home. Survivors include his wife Mildred, sons Jeffrey Thieret, of Minneapolis, Robert Thieret of Winona, Minn., and Richard Thieret, currently on a teaching assignment in China; and a daughter, Jennifer Westermeyer of Highland Heights; seven grandchildren and five great-grandchildren.

Services are private at the convenience of the family. Northern Kentucky University has scheduled a public memorial service at 2:00 - 3:00 PM, Thursday, January 26th, at Northern Kentucky University.

For a summary of Dr. Thieret's many accomplishments, please see the 2005 Superlative Award for Outstanding Academy Service.



## Greetings KAS Members

My name is Jeanne Harris and I am your new KAS Executive Director. I am thrilled to be a part of this outstanding organization.

Prior to coming to KAS, I worked in various areas including, research nursing, medical sales, stay at home mom/volunteer coordinator of the science fairs in my children's school, and, most recently, as an executive director for another non-profit organization. I have a Bachelor of Science in Nursing and an MBA with a marketing concentration.

The goals for KAS are so important for the future of science in our great Commonwealth. We need to continue to provide an opportunity for the many talented and dedicated Kentucky scientists of all sections to work together and realize their potential synergy. I look forward to helping KAS flourish and continue its strong 92 year history.

Please feel free to get in touch with me regarding KAS questions and comments.

Best wishes,  
Jeanne Harris  
859-227-2837  
executivedirector@kyscience.org



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# OUTSTANDING UNIVERSITY TEACHER/SCIENTIST



**Dr. Robert Ziemba, Centre College**  
*Outstanding College Teacher*

Dr. Ziemba obtained his B.A. in Biology with a specialization in marine science from Boston University in 1992, and he obtained his Ph.D. in Biology from Arizona State University in 1998. He was a postdoctoral scholar at the University of Kentucky from 1999-2001 where he worked with Drs. Andrew Sih and Phil Crowley. Dr. Ziemba obtained a position as Visiting Assistant Professor at Centre College in 2001, and was granted tenure-track status last year.

Dr. Rob Ziemba's research interests are in the area of population genetics, and the ecology and evolution of behavior, and he has published several excellent research papers in peer reviewed journals. His research at Centre College has focused on the genetics and distribution of crayfish in the Kentucky watershed. He has sequenced hundreds of samples of crayfish DNA from the Kentucky river basin, with the hope of relating variation in genotype with morphology and behavior. This will likely lead to a better understanding of the events which lead to speciation. This area of research, the linkage of genotype and phenotype, is of fundamental importance to the population biology of animals such as the crayfish, but it is also a contemporary topic of human health research.

Letters in support of the nomination from his peers, attest to the fact that Dr. Ziemba is deserving of this prestigious KAS teaching award. It is noted that he played a major role in introducing Inquiry Based learning techniques into the introductory Biology class at Centre College. He was awarded the College's prestigious Kirk Award for Excellence in Teaching in 2003. One professor remarked that having visited classes taught by several Kirk award winners he would rank Dr. Ziemba's classes the highest of all. Another noted, that in addition to mentoring students in research and teaching upper level biology majors, he also serves as Chair of the Kentucky River Watershed Watch. Through this organization, Rob demonstrates his service to public education on water quality and related environmental issues. Another faculty member noted that Rob teaches an integrative Natural Sciences Class (NSC) for non-majors, traditionally a difficult class, but manages to get these non-majors excited about science. "Rob's evaluations for his section of the NSC this past fall were ... THE best I have ever read for this particular class".

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Dr. Bardo received his B.S. and M.S. in Psychology from Eastern Illinois University at Charleston in 1974 and 1976, respectively. He obtained his Ph.D. in Psychology from Iowa State University in 1980. Dr. Bardo was a postdoctoral fellow at Iowa State University from 1980-1982. He joined the University of Kentucky in 1982 as Assistant Professor in the Department of Psychology. He became associate professor in 1988 and full professor in 1994 in the same institution. He served as the Director of graduate Studies for his department from 1999-2002. Dr. Bardo was the Scientific Director for the Center for Prevention Research between 2001-2003 and he has been the Director for the Center for Drug Abuse Research Translation (CDART) since 2003. Dr. Bardo's research interests are focused on the neurobiology of addiction behavior.

Since his time as a Ph.D. student, Dr. Bardo has published 130 peer-reviewed manuscripts in high quality journals. Since obtaining his Ph.D. in 1980, he has been a Principal Investigator on 15 competitive grant awards from federal agencies and pharmaceutical companies. He has also served as a co-investigator or mentor on another 12 grant awards. Dr. Bardo has been asked to serve on numerous grant review panels at the NIH, and he currently serves as the (Continued on page 5)



**Dr. Michael Bardo, University of Kentucky**  
*Distinguished Scientist*

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**2005**

*Awards*

## **OUTSTANDING ACADEMY SERVICE**

### **John Thieret, Professor Emeritus at Northern Kentucky University**

Dr. Thieret obtained his B.S. in Botany from Utah State University in 1950, his M.S. in Botany from Utah State University in 1951, and his Ph.D. in Botany from the University of Chicago in 1953. His full time appointments include his position as Curator of Economic Botany at the Field Museum in Chicago from 1954-1961; his tenure at the University of Southwestern Louisiana in Lafayette, as associate and then as full professor between 1961-1973; and his position as Professor of Botany at Northern Kentucky University from 1973-1992. He served as Chairman of Biological Sciences at NKU between 1973 and 1980. He has been Professor Emeritus of Botany at NKU since 1992.

During his career, Dr. Thieret has received several grants from the USDA and the NSF to study vegetation and flora in multiple locations from Louisiana to Kentucky to the Northwest Territories of Canada, and he has conducted field studies in many states throughout the North American Continent. The breadth and depth of his studies make for good reading, and for his contributions to research, the Academy presented Dr Thieret with the Outstanding Scientist award in 1984. In addition to his numerous research and teaching activities, Dr. Thieret has served on many editorial and advisory boards. He has been an advisor in Botany for the Encyclopaedia Britannica, a Member of the Editorial Board for the journal *Economic Botany*, a Member of the Board for the Louisiana Natural History Museum, a

member of the Advisory Board for the Lloyd Library in Cincinnati. He was the Editor for the journal, *Economic Botany*, between 1986-1990 and has been Associate Editor for the same journal since 1992.

Letters in support of the nomination all cite Dr. Thieret's outstanding contributions to the Academy through his untiring efforts, first as Abstract Editor for the *Transactions of the Kentucky Academy of Sciences* between 1981-1995, and subsequently as Editor of the *Journal of the Kentucky Academy of Sciences* since 1996. One professor noted that it is only through John's dedication, that the JKAS has become what it is today, more up to date, and more in keeping with those produced by the other academies. Several letters of support pointed out that John was the reason that they had become involved in the business of the Academy. On reading the letters of support, it becomes difficult to appreciate the fact that John is supposed to be retired and sitting on his laurels. One letter pointed to the fact that he is editing a field guide to North American Trees and teaching a community education course on identifying grasses. Another pointed out that John is currently on the editorial committee of the *Flora of North America*. Another noted that in his position as Editor of the JKAS, John has been, and still is an active member of the Governing Board, and one who is always striving to improve the status of the KAS.

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### *Bardo, cont'd.*

Chair of the Biobehavioral Regulation, Learning and Ethology (BRLE) study section at NIH.

Dr. Bardo reviews manuscripts for numerous journals, and he has been the organizer or invited speaker of many national and international conferences and symposia. Dr. Bardo has trained 19 Ph.D students and 4 postdoctoral scholars, many of whom now have faculty positions in departments across the country. Even with his current responsibilities which are many, he currently finds the time to serve as the mentor to 5 graduate students.

Several of the letters in support of the nomination come from former students who now enjoy faculty status. They all speak very highly of Mike's past mentoring, as well as his continued involvement in their careers. "He is a role model for careful and creative thought, as well as rigorous experimentation and the highest scientific ethics". Another letter points to some of his other former students who have now established their own

prestigious careers, including: James Rowlett, Associate Professor at Harvard University; Chris Pierce, Associate Professor at Boston University School of Medicine; Cynthia Crawford and Sanders McDougal, both Professors at California State University. One former student credits Mike with helping with a successful grant application. Another letter points out that Mike was one of the first investigators to link the action of dopamine in novelty seeking behavior to stimulant abuse. This linkage should lead to a better understanding of the types of behavior and environmental factors that make individuals vulnerable to an addictive lifestyle. One letter adds that Mike is also involved in research examining the effect of nicotine on brain mechanisms. Based on this research, Mike is a co-holder of a U.S. Patent to develop nornicotine as a therapeutic compound. One letter of support summarizes Mike's research record as one which "clearly distinguishes him as a well known and highly respected scholar".

## Special Research Funding Award for 2005

One KAS Special Research Program Grant has been awarded for the 2005-2006 year. The recipient of the award this year is:

Dr. Robert Ziemba, Assistant Professor of Biology, Centre College, for his proposal: "An investigation of species boundaries in the *Orconectes juvenilis* species complex."

The recipient of the award this year was voted upon by the KAS Governing Board at the 90th Annual Meeting, November 10, 2005, at Eastern Kentucky University.

The Research Awards Committee would like to encourage more KAS members to take advantage of the Academy's grant opportunities. Instructions and guidelines can be found on the KAS web site (<http://kas.wku.edu/kas>) and the KAS newsletter.

## Funding Request Deadlines

<u>February 15, 2006</u>	Athey Fund, Botany Fund
<u>October 1, 2006</u>	KAS Special Research Program
<u>November 15, 2006</u>	Undergraduate Research Supply, Summer Undergraduate Research

## Marcia Athey & Botany Funds Proposal Information

The Kentucky Academy of Science Foundation makes available through the Marcia Athey Fund and the Botany Fund moneys for research planned and conducted by students of Kentucky secondary schools, colleges, and universities under the supervision of a faculty member. In the event that funds permit, consideration will also be given for support of faculty research projects. Faculty sponsors/researchers must be members of the Kentucky Academy of Science. Awards normally are in the several hundred dollar range, though in extraordinary circumstances some higher awards may be possible. All awards are made to the institution of the faculty supervisor/researcher. Applications must be submitted to the Chair of the Research Committee and postmarked not later than **February 15** of the year in which an award is sought. Funding recommendations will be made by the Committee to the Board not later than March 31 of that year.

Detailed instructions for preparing the proposal can be found on our web site at [kas.wku.edu](http://kas.wku.edu). A cover sheet as well as terms and conditions of the research supported by the Marcia Athey Fund and the Botany Fund can be obtained from the Research Committee Interim Chair:

Dr. Ralph Thompson  
Department of Biology  
CPO Box 2121  
Berea College  
Berea, Kentucky 40404-2121  
859-985-3301  
[ralph\\_thompson@berea.edu](mailto:ralph_thompson@berea.edu)

## KAS Opposes Teaching of Intelligent Design In Science Classes

The Kentucky Academy of Science is opposed to any attempt by legislative bodies to mandate specific content of science courses in public school settings. The content of science courses in public schools should be determined by the standards of the scientific community. Science involves specific methodology and a continuing systematic inquiry into the manifold aspects of the biological and material world. Science is based upon testable theories that may change with new data. Science cannot include interpretations based on faith, because faith can not be tested using scientific methods. As a 700-member scientific organization that includes scientists from the private sector, industry, and academics, the KAS objects to attempts to equate "scientific creationism" or "intelligent design" with evolution as scientific explanations of past events. Teaching faith-based models implies those views are equivalent alternatives to science. "Scientific creationism" and "intelligent design" are not equivalent to evolution. There is overwhelming acceptance by scientists of all academic disciplines (anthropology, archaeology, astronomy, biology, chemistry, geology, and physics, to name just a few), that evolution (the descent of modern species of animals and plants from different ancestors that lived millions of years ago), is consistent with the weight of a vast amount

of scientific evidence. The understanding of the processes underlying evolution has provided the foundation upon which many of the tremendous advances in agriculture, astronomy, biology, genetics, medicine, natural history, prehistory, and theoretical biology have been built. Differences among scientists over questions of how evolution was accomplished do not obscure the basic agreement that evolution occurred or that it continues to take place.

The KAS fully respects the religious views of all persons, but we sincerely object to any attempts to have public government officials require religious teachings or religious belief systems taught as science, or as alternatives to science, to be taught in Kentucky public school science courses. The KAS joins the National Academy of Sciences, the American Association for the Advancement of Science, and 53 other state and national academies of science in calling for the rejection of governmental attempts to require the teaching of "scientific creationism" and "intelligent design" as scientific theory in public schoolrooms.

*A complete copy of the resolution adopted at the Annual Business will be made available on the KAS website and published in the upcoming issue of the Journal.*

# 2005 Graduate Research Competition and Griffith Memorial Award

## Agricultural Sciences

1st place (tie): Kyle Schneider – Kentucky State University  
 1st place (tie): Nicholas Skudlarek - Kentucky State University  
 2nd place: Jamie Green – Kentucky State University  
 3rd place: Akua Amoah – Kentucky State University

## Cellular and Molecular Biology

1st place: Abishek Srivastava – Western Kentucky University

## Chemistry

1st place: Steven Isaacs – Western Kentucky University  
 2nd place: Qing Zhao – Western Kentucky University

## Computer and Information Science

1st place: Josh Gilkerson – University of Kentucky  
 2nd place: Ravishrikanth Gundlapalli – University of Louisville

## Ecology and Environmental Science

1<sup>st</sup> Place: Amelia Lehman - Murray

## Geography

1st place (tie): Ashley Littell – Western Kentucky University  
 1st place (tie): John Broome – Western Kentucky University  
 2nd place (tie): Scotty Sharp – Western Kentucky University  
 2nd place (tie): Dasen Kendrick – Western Kentucky University

## Geology

1st place: Mimi Shear – Eastern Kentucky University  
 2nd place: Melissa Hendrickson – Western Kentucky University  
 3rd place: Michael Spicer – Eastern Kentucky University  
 4th place: Scott Schoefnacker – Western Kentucky University

## Mathematics

1st place: Brandon Williams – Kentucky State University

## Psychology

1st place: Melissa Abo – Western Kentucky University

## Psychology - Griffith Memorial Graduate Award

1st place Caitlin Powell – University of Kentucky  
 2nd place Rebecca Singer – University of Kentucky

## Science Education

1st place: Tia Hughes – Western Kentucky University

## Zoology

1st place: Seth Bishop – Eastern Kentucky University  
 2nd place Jessica Bevins – Eastern Kentucky University

# 2006 Sectional Officers

<b>SECTION</b>	<b>CHAIRPERSON</b>	<b>SECRETARY</b>
Agricultural Sciences	Michael Bomford Michael.Boomford@kysu.edu	Elmer Gray elmer.gray@wku.edu
Anthropology & Sociology	Michael J. Simonton simontonm@nku.edu	Kenneth C. Carstens kenneth.carstens@murraystate.edu
Botany & Microbiology	Rick Boyce boycer@nku.edu	David Taylor dtaylor02@fs.fed.us
Cellular & Molecular Biol.	Nancy Rice nancy.rice@wku.edu	Rodney King rodney.king@wku.edu
Chemistry	Eric Dueno eric.dueno@eku.edu	Bommanna Loganathan bommanna.loganathan@murraystate.edu
Computer & Information Sciences	Chuck Staben staben@email.uky.edu	Eric Rouchka eric.rouchka@louisville.edu
Ecology & Environmental Science	Robert W. Kingsolver kingsolver@bellarmine.edu	Albert Meier albert.meier@wku.edu
Engineering	William Charles Patrick c.patrick@morehead-st.edu	
Geography	Scott Dobler scott.dobler@wku.edu	Rick Sambrook richard.sambrook@eku.edu
Geology	Charles Mason c.mason@moreheadstate.edu	Robert T. Lierman tom.lierman@eku.edu
Health Sciences	Frederick N. Bebe fbebe@gwmail.kysu.edu	Susan Templeton susan.templeton@kysu.edu
Mathematics	Dan Seth d.seth@morehead-st.edu	Mark Robinson mark.robinson@wku.edu
Physics & Astronomy	Capp Yess c.yess@moreheadstate.edu	Neil Adams neil.adams@kctcs.edu
Physiology & Biochemistry	Mike Fultz m.fultz@moreheadstate.edu	Lingyu Huang Lingyu.huang@uky.edu
Psychology	Wesley White w.white@moreheadstate.edu	Cary Feria c.feria@moreheadstate.edu
Science Education	Heather Johnson heather.johnsont@wku.edu	Margaret Crowder margaret.crowder@wku.edu
Zoology	Sherry L. Harrel sherry.harrel@eku.edu	Robert Ziemba ziemba@centre.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 2006 Spring Symposium will be Saturday, April 15, 2006 at Campbellsville University. Paper and Abstract Deadline will be Monday, March 13, 2006.

Delegates to the National Academies of Science meeting on February 16-20, 2006 in St. Louis, Missouri are Suhail Malhorta of duPont Manual High School and Jessica Miles, duPont Manual High School.

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](http://www.kjas.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

**KAS Members: Judges are needed for the Spring Symposium. Please contact [eksutton@campbellsville.edu](mailto: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 fourth annual state-wide Kentucky Science and Engineering Fair will be hosted by Eastern Kentucky University in Richmond, KY on March 31 - April 1, 2006. KY-SEF will provide the opportunity for more than 150 young student scientists from throughout the Commonwealth of Kentucky to compete for scholarships and prizes. KY-SEF is also affiliated with the Intel International Science and Engineering Fair which provides the opportunity for the Best of Fair winners to go to Intel ISEF this spring in Indianapolis, Indiana to compete for additional scholarships and prize money. In 2005, 31 talented young student scientists representing Team Kentucky attended the International Science and Engineering Fair at Phoenix, Arizona. Team Kentucky represented the Commonwealth extremely well in winning 18 Grand Awards or Special Awards. In order for KY-SEF to be successful we will need judges to evaluate the research projects of these young scientists. We would strongly encourage the members of the Academy to volunteer to be a judge at KY-SEF on Saturday, April 1, 2006. You may register to be a judge at our web site at [www.kysef.eku.edu](http://www.kysef.eku.edu) or contact:

Dr. Barbara Ramey, Chair  
 Dept. of Biological Sciences  
 Eastern KY University  
 Lancaster Drive  
 Richmond, KY 40475  
 (859) 622-1531  
[barbara.ramey@eku.edu](mailto:barbara.ramey@eku.edu)

Dr. Robert Creek  
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