



South Carolina Academy of Science

Vol. 31, No. 3

Newsletter

Winter, 2005

12.9.2005 Nominations for
Governor's Award in
Excellence Due

3.1.2006 MESAS Mail-in Contest
for members of SCAS/
MESAS due

3.10.2006 S.C. Academy of
Science Annual
Meeting, USC

6.15.2006 Deadline for SCAS
Journal



2006 Annual Meeting to be Held on the Columbia Campus of The University of South Carolina

USC Columbia will host the 79th annual meeting of the South Carolina Academy of Science on Friday, March 10, 2006. Established in 1801, USC Columbia has long offered a comprehensive range of undergraduate and graduate programs through the doctoral level. With a mission of teaching, research, and service, USC Columbia addresses the state's needs for master's level, professional, and doctoral education, for conducting and sharing research, and for responding to statewide and regional demands for educational resources and professional expertise. Its commitment to graduate education and involvement in major research initiatives have attracted an outstanding faculty. Today, in addition to the Columbia campus, the University includes seven other campuses around the state. Enrollment on all campuses totals nearly 37,000. Of these, 25,000 students are on the Columbia campus, about one-third of whom are enrolled in graduate and professional programs.

This Newsletter contains the Call for Papers for the Annual Meeting. The Academy of Science will use an online system for registration and submission of abstracts. This year, a new topical session on Nanoscience has been added. Poster presentation and oral presentation will take place during the annual meeting. Please note the Poster Session and Oral Presentation guidelines that are online and that are also included on the following pages. Meeting information is available on the SCAS web-site (www.scacadsci.org) and will be updated as soon as additional information is available.

At the 2006 Annual Meeting, the academy will have a special presentation of the Governor's Awards for Excellence in Science as well as the Academy's Award for the South Carolina Science or Mathematics Teacher of the Year. In addition there will be a keynote presentation by Prof. Davis Baird on the Societal and Ethical Implications of Nanoscience. Prof. Baird is Dean of the USC Honors College and previously was Chair of the USC Department of Philosophy. He heads an internationally recognized group that is studying the impact of nanoscience on our lives.

For more information contact: Dr. Hans-Conrad zur Loye, Program
Chair: zurloye@mail.chem.sc.edu.



PRESIDENT ASKS MEMBERS TO WORK ON INCREASING MEMBERSHIP

Founded in 1924, the South Carolina Academy of Science is the only state-wide interdisciplinary science organization whose membership includes high school students, teachers, administrators, college students, professors, scientists, related professionals, parents of students, college presidents, business executives, small and large businesses, financial institutions, and institutions of higher education. One reason for this broad spectrum of support for SCAS is that, individually and collectively, we share a deep commitment to stimulate the creative abilities of youth and adults of our State and to provide experiential learning opportunities that allow for the development of these talents. Below is a summary of activities that are sponsored and supported by SCAS and its members.

ACTIVITIES OF THE SOUTH CAROLINA ACADEMY OF SCIENCE:

Your Academy of Science sponsors . . .

1. the Bulletin of the South Carolina Academy of Science, a professional society journal.
2. the South Carolina on-line Journal, a professional society journal.
3. eight regional science fairs.
4. the South Carolina Junior Academy of Science (SCJAS)*.
5. the Middle/Elementary School Academy of Science (MESAS)**.
6. awards for excellence in science research and awareness.
7. awards for excellence in science or mathematics teaching at the high school level.

Your Academy of Science provides . . .

1. opportunities for principle investigators to articulate research papers at the annual meeting.
2. opportunities for college undergraduate and graduate students to articulate research papers at the annual meeting.
3. a scientific resource bank for issues relating to scientific research, science education, and public policy.
4. a forum for nationally and internationally prominent guest speakers at the annual meeting.
5. a forum for the vertical integration of scientific knowledge among senior scientists, college professors, teachers, college students, high school students and the citizens of South Carolina.

*The South Carolina Junior Academy of Science has two workshops annually where students have the opportunity to learn more about science. In addition, student members present research papers and compete for awards in fifteen categories at the annual meeting. SCJAS encourages the creation and development of science clubs in the high schools. It provides high school students with unique opportunities for leadership development and increased opportunities for scholarship aid for higher education.

**The Middle/Elementary Academy of Science has regional fall workshops where students have the opportunity to learn more about science. Students are eligible to present at the SCAS annual meeting. They can participate in a mail-in contest and win prizes. Also they are eligible to become Young Researchers.

I would like to ask you to recruit a new member by sharing the summary of activities. As a result of recruiting a new member, you allow the Academy to maintain and widen its outreach through sponsored activities.

- James E. Privett
President



Call for Papers

South Carolina Academy of Science
2006 Annual Meeting - **Friday, March 10, 2006**
University of South Carolina, Columbia SC

Abstract and Pre-Registration Deadline: Wed. January 11th, 2006

All abstract submissions must be entered electronically.

Abstracts may be submitted at:

http://www.erskine.edu/scas/abstract_submissions_page.htm

MEETING INFORMATION :

Important Information for Oral Presentations at the 2006 Meeting:

The computers available at the 2006 Annual Meeting are IBM compatible only. There will be no Macintosh computers available. If you use a Mac to prepare your PowerPoint presentation it may result in image and font display problems. This can be a significant issue with Mac OS 10. Presenters should preview presentations on an IBM-compatible computer to verify proper display of images and text.

Presentations must be saved on a CD-R (IBM compatible) labeled with the name of the presenter. Please have a backup version of your presentation on overheads in case of equipment failure. No 35mm slide projectors will be available.

2006 Meeting Abstract Submission is on the Web!

The abstract submission page for this year's annual meeting is now on line at http://www.erskine.edu/scas/abstract_submissions_page.htm. All abstracts for the meeting, poster or oral, must be submitted in electronic format using this web site. A sample of the web page, modified slightly for printing purposes, is below. Please do not send in a paper copy of this form, it will not be accepted for abstract submission. Due to the meeting date and printing deadlines for the SCAS Bulletin, the abstract deadlines are slightly earlier than last year so please don't forget to send those abstracts in early! If you should have any difficulties submitting your abstract(s), please contact the SCAS Bulletin editor, David K. Ferris (dkferris@uscupstate.edu).

Accommodations

Inn at USC \$129 and up (includes breakfast)
Inn at USC, 1619 Pendleton Street Columbia, SC 29201
(803) 779.7779 or 777.8724, Fax (803) 779.2197

Hampton Inn the Vista \$159 (includes breakfast)
822 Gervais Street,
Tel:+1-803-231-2000 Fax:+1-803-231-2868

Holiday Inn City Centre \$90 and up
630 Assembly Street, Columbia, SC 29201 US
1-888-465-4329

The following is a sample abstract submission form:

**South Carolina Academy of Science
2006 Annual Meeting
Friday, March 10, 2006
University of South Carolina, Columbia SC**

Call for Contributed Papers

Abstract and Pre-Registration Deadline: Wednesday, January 11th, 2006

Payment method (Registration is not complete until payment received):

I intend to pay online

I intend to pay via mail

Presentation Type:

Oral

Poster

SCJAS members do NOT use this page for abstract submission, please email all SCJAS abstracts directly to Dr. Karen Fox (kfox@med.sc.edu).

Poster Presentations **require** the submission of your abstract (below), a printed copy of your extended abstract/research paper to be available at the poster station for judges, AND submission of the extended abstract in Microsoft Word format to dkferris@uscupstate.edu for inclusion in the meeting proceedings section of the SCAS Journal.

Posters are only eligible for the Explorers Club award (Graduate Students only). If you wish to be considered for the Explorer's award check the box below:

Explorers Club - entrants must submit written papers to Dr. John Safko (safko@sc.edu) by February 25th, 2006.

Select one of the topical sessions below for your presentation:

Biology: Cellular

Earth/Geological

Statistics

Nanoscience

Biology: Field

Geography

Public Health

Nursing

Biology: Molecular

Math/Computer Science

Meteorology/Climatology

Physics/ Astronomy/Engineering

Chemistry/Biochemistry

Math/Comp.Sci/Sci.Ed.

Medicine Pharmacology Pharmacy

Psychology/Social Science

Also mark if SCAMP EPSCOR Two Year College

If you are a STUDENT, please check the appropriate box: Undergraduate Graduate

To be considered for prizes awards, indicate the status of PRESENTER (check) Click For: JUDGING CRITERIA

Visual Aid(s) needed : Overhead Projector Computer and Computer Projector for PowerPoint

Please click [here](#) to see computer specifications. **NOTE:** No 35mm slide projectors are available. VCR/TV presentations cannot be accommodated due to time constraints.

The presenter of a paper must be registered for the meeting and one of the authors must be a member of the SCAS.

AUTHOR / PRESENTER WHO IS A CURRENT MEMBER OF SCAS

SCAS MEMBER ID NUMBER (LOCATED ON NEWSLETTER LABEL)

Contact Information for Head Presenter:

First Name: Last Name:

Email:

Phone Number:

Institution/Business:

Research Supervisor (if student):

NAME OF PRESENTER

ABSTRACT INFORMATION ENTRY

If you need to enter a subscript or superscript into the **Title of Paper**, when you reach that point in the title, please enter the subscript or superscript into the appropriate box and click on the button.

<input type="text"/>	<input type="text"/>
<input type="button" value="add subscript to Title"/>	<input type="button" value="add superscript to Title"/>

Title of Paper

Identification and Purification of Putative Jensenii G Transporter Protein
Elizabeth Grant, Stefanie H. Baker
Department of Biology
Erskine College
Susan F. Barefoot
Department of Food Science & Human Nutrition
Clemson University

The antitubulinum activity of jensenii G, a bacteriocin produced by *Propionibacterium jensenii*, as well as its heat and pH stability suggest its usefulness as a biological food preservative. A single protein band was observed on a sodium dodecyl sulfate polyacrylamide gel following purification under denaturing conditions and dialysis to remove the urea. * Supported by NSF Grant #####

If you need to enter a subscript or superscript into the **Abstract of Paper**, when you reach that point in the title, please enter the subscript or superscript into the appropriate box and click on the button.

<input type="text"/>	add subscript to Abstract	<input type="text"/>	add superscript to Abstract
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Abstract - *Must not exceed 2200 character limit. Please fill in using format shown above in Example Abstract.

This is a sample form only, all abstracts must be submitted online at http://www.erskine.edu/scas/abstract_submissions_page.htm

[Submit Abstract](#)

Clear Abstract (start over again with the abstract)

A SPECIAL TO QUILL, by Larry Timbs *

Rudy Mancke—holder of five honorary doctorates, a noted S.C. naturalist, host of a program about nature on educational radio and longtime director of nature programming for S.C. ETV, a nationally syndicated TV show—spoke to an audience predominantly made up of young scientists. Hearing his remarks were botanists, biologists, naturalists, horticulturists, herpetologists—all sorts of folk deeply interested in what he had to say about plants and animals in South Carolina.

But Mancke, now a distinguished lecturer at the University of South Carolina School of the Environment and the keynote speaker in mid-March at the S.C. Academy of Science, might just as well have targeted his message to journalists. Because what he said about curiosity sometimes gets overlooked or neglected by those charged with bringing our world to readers, listeners or viewers. If you're not the least bit curious—if you're not driven by an insatiable curiosity about "the nature of nature," you'll never cut it as a scientist, Mancke said. Mancke revels in walking through the woods and picking up all kinds of things—living or dead—and probing, examining, exploring—all in an attempt to understand how they originated, what's become of them or why they ended up in their present state. Ever curious about the natural world—whether it's wondering about dry pods from a honey locust, butterflies, birds, snakes, turtles, trees or flowers—Mancke categorizes himself as a person obsessed with figuring out how things are interconnected. "I'm a 4-year-old in an older man's body. I'm curious. I want to understand," Mancke said. Scientists, he said, should be about seeing connections and

putting pieces of the puzzle together if they really want to understand how things in the natural environment work. The same should and can be said of any journalist who wants to make his or her mark on a community newspaper.

Develop an insatiable curiosity. Keep all your mind and sensory antennae open and alert to new ideas, new facts, new directions. Never, as a reporter, rest on your laurels or think that you've discovered THE TRUTH just because you've strung a few facts together and gotten a quote or two. And don't let your curiosity take a back seat to your internal bias. "Sometimes we see what's behind our eyes instead of what's in front of our eyes," Mancke said, noting that scientists sometimes harbor pre-formed biases of where facts or information should take them. If only journalists, too, didn't let their pre-formed biases shape their work.

If you've been in the newspaper business long enough, or maybe even if you've just started, you know the danger—but somehow you fall into a trap or rut. You have an idea or theory going into a story and you seek out facts or information that bolster that idea or theory; sometimes that's just too easy, and it's to the detriment, sometimes, of nailing the truth. That's where innate (hopefully) curiosity can help save you. Don't settle for what you thought the conclusion or outcome of a story would be. Keep searching, asking wondering. Key to a journalist's getting a compelling truthful story is to "dig for answers" and "unleash your curiosity," writes journalism educator/ author Carole Rich in her textbook "Writing and Reporting News" (Fourth Edition). Rich employs the metaphor

Article IX. Western Upstate Regional Science Fair

Section 1. The South Carolina Academy of Science Upstate Regional Science Fair (SCASWURF), also known as the AOP Regional Science Fair or SC Region IB Science Fair shall be a subsidiary organization of the Academy. The Academy shall assist the AOP Regional Science Fair by providing financial oversight to aid it to provide a regional science fair to encourage an interest in science and engineering among students that region of South Carolina.

Section 2. The Officers will consist of at least three persons: The Science Fair director, an Executive director, and a member of SCAS appointed by the SCAS president with the approval of Council. The sole purpose of SCASWURSF is to raise funds to operate a regional science fair in the Western Upstate Region and to send delegates to the International Science and Engineering Fair (ISEF).

Section 3. The affairs of the AOP Regional Science Fair shall be governed by a Board of Directors, which includes the officers listed in Section 2 and other interested persons, as specified by the Bylaws of SCASWURF. These Bylaws shall be devised by the Board of Directors of SCASWURF, and shall be ratified by the Council of the Academy.

Current ARTICLE IX becomes Article X

(continued from page 7)

of the detective to help explain what she means: “Imagine that you are a detective at the scene of a crime, a protest rally or any other event that involves a mystery or conflict. What questions would you (the journalist) ask to solve the crime or the problem?”

Reminds you of Detective Lt. Columbo, played by Peter Falk. The insatiably curious, persistent, pesky, observant Columbo, with his rumpled coat, ugly car and always ready pen and notebook, knows how to solve a mystery. It’s not exactly easy, and it’s frequently a clumsy, awkward, back-and-forth process of asking and re-asking or re-framing questions. And then asking more questions. That’s what Lt. Columbo does. That’s what Rudy Mancke does. That’s what journalists should do. If the facts don’t fit a conclusion, according to Mancke, you throw the old conclusion away and pursue a new one. And you always look for connections. “People see facts and bits of information but they don’t see connections well,” said Mancke, convinced that everyone is born with a broad based curiosity that just awaits igniting. “Look for and see connections and relationships.” On-target advice for journalists.

**Larry Timbs is an associate professor of mass communication at Winthrop University in Rock Hill, S.C., where he’s also faculty adviser to the student newspaper and faculty adviser to the Winthrop chapter of the Society of Professional Journalists. He and Winthrop colleague Judy Longshaw presented research at the March 2005 meeting of the S.C. Academy of Science. For more on Quill, see www.spj.org.*

OF NOTE

Dr. Privett recently received the Dori Helms Award for Excellence in Science Teaching from the South Carolina Science Council.

DUES REMINDER

As of December 2, 2005, dues have gone up to \$ 8.00 and \$20.00 respectively. Checks for dues should be made payable to SCJAS and sent to this address:

**Dr. Jerry Howe
SCJAS Treasurer
Converse College
580 E. Main Street
Spartanburg, SC 29302**

Call for Nominations for the 2006 Governor's Award for Excellence in Science

The Governor's Award for Excellence in Science was established in 1985 by the Drug Science Foundation to honor specifically an individual or team within the state whose achievements and contributions to science in South Carolina merit special recognition and to promote wider awareness of the quality and extent of scientific activity in South Carolina. Since 1989 the award, named the "Governor's Award for Excellence in Science", has been under the joint sponsorship of the Governor's office and the South Carolina Academy of Science. In 1993 these groups were joined by the Dewees Development Corporation and Harbor Watch of Charleston. In 2000 **Roche Carolina Inc.** took the lead, in 2004 **MeadWestvaco** joined and in 2005 **Michelin North America** joined in sponsorship of the Governor's Awards.

Beginning in 1990, two of these awards are given annually with one being for scientific discovery and the other for scientific awareness. In 2005 the Academy, in conjunction with the Governor's Office, initiated the sponsorship of a third award directed to a gifted young researcher (*only those individuals who have completed no more than 12 years beyond the Ph.D.*). The award is called the Governor's Young Scientist Award for Excellence in Scientific Research and was sponsored by Michelin North America. The awards consist of an honorarium of \$1,000 and a handsomely framed certificate which is presented to the recipient at a special awards ceremony held in the spring in conjunction with the South Carolina Academy of Science's annual meeting.

Candidates should be currently working in South Carolina or have conducted a substantial portion of their work within the state. Contributions may be in any area of science and may be for service to science through non-formal education in the various media, for exemplary exposition at the college or university level, or as an acknowledgement for significant outstanding formal research. The award may be given to an individual or a team. If the award is made to a team, the honorarium will be distributed equally.

Please send your nomination to the Chair of the Governor's Award Committee, Dr. Don Jordan of the USC College of Arts and Sciences, Columbia, SC. Give complete address as well as email information.

Deadline for receipt of nominations is **December 9, 2005**. An official nomination form is included with this letter. Additional forms may be photocopied or obtained by request. The 2006 nomination forms and a list of past winners can be found at www.scacadsci.org under Awards.

Send your nominations to:

Dr. Don M. Jordan
Center for Science Education
College of Arts and Sciences
Sumwalt Room 323
University of South Carolina
Columbia SC 29208
Email: Jordan@gwm.sc.edu

Nomination Form

The 2006 Governor's Award for Excellence in Science

On the web: www.cosm.sc.edu/jordan click Governor's Award. This will link to scacadsci.org page about the Governor's award. All forms can be obtained at this site.

ALL NOMINATIONS MUST BE RECEIVED BY **DECEMBER 9, 2005**.

NAME, TITLE, ADDRESS, EMAIL, AND TELEPHONE NUMBER OF PERSON NOMINATED:

NAMES OF OTHER MEMBERS, IF A TEAM IS TO BE CONSIDERED:

PLEASE PROVIDE THE FOLLOWING INFORMATION: (forms should be mailed to the above address)

No more than six typed pages are to be used for the nomination (items 1-3, below). This material, and the letters of recommendation, will be distributed to the Selection Committee at least two weeks prior to the meeting.

1. A case statement summarizing the achievements on which the nomination is based, specifying the significance of particular contributions to the field of science and to South Carolina. If the nomination is made for the award for Scientific Awareness, be sure to emphasize the candidate's contribution to all educational aspects of science in South Carolina.
2. A biographical sketch of the nominee, including positions held, grants, honors and awards received.
3. A list of the nominee's most significant publications or patents.
4. Supporting references: Name, title, address and telephone number of at least two professional colleagues outside the institution or company of the nominee who have agreed to provide letters of recommendation in support of the nomination. Letters of recommendation should be solicited by the person making the nomination. They can be sent directly to Dr. Don M. Jordan by mail, fax or e-mail.

Supporting exhibits (such as full-size CV, copies of relevant publications, books, or other material) may also be submitted and will be available to the Selection Committee a few hours prior to the selection meeting. Please use the regular mail for all supporting material. We will have to duplicate materials for the committee of 10.

Name, Title, Address, Telephone Number, and Email of Person Making the Nomination:

Winners will need to be present at the SC Academy of Science Annual Meeting at University of South Carolina on **March 10, 2006**. In addition, winners will need to meet with the Governor at a later date in the spring or early summer for the official presentation by the Governor.

The Governor's Award Committee will meet tentatively on Friday, January 29, 2006.

THE COUNTDOWN BEGINS TO CHOOSE “AMERICA’S TOP YOUNG SCIENTISTS OF THE YEAR”

SEVEN MIDLANDS SCHOOLS STUDENTS CHOSEN AS SEMIFINALISTS

Seven (7) Students from the Midlands were chosen by the Discovery Channel Young Scientist Challenge (DCYSC) as semifinalist

The countdown to choose the nation’s top young scientist began as Discovery Communications announced the 400 middle school students from around the country selected as semifinalist in the 2005 Discovery Channel Young Scientist Challenge (DCYSC). The DCYSC is the nation’s premier science contest for students in grades 5-8. The competition gives students the opportunity to test their knowledge and push their limits as they explore the world of science.

These students have the knowledge, enthusiasm and imagination to become the scientific trailblazers of tomorrow,” said Judith A. McHale, President and CEO, Discovery Communications. The breadth and knowledge demonstrated by the 400 semifinalist is inspiring and sets an example for anyone who wants to explore the world around them.

The Seven Semifinalists from The USC Region II Science and Engineering Fair are:



Emily Eisenstadt
Crayton Middle
School
Teacher: Vicki Brown



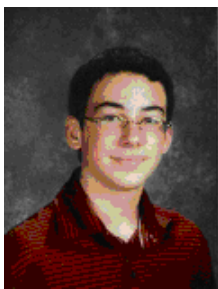
Velina Kozareva
Harbison West
Elementary
Teacher: Angel Norris



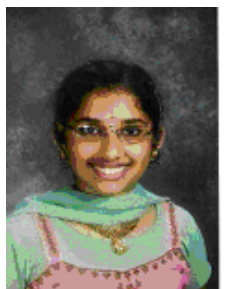
Grace Zimmermann
St. Josephs Catholic
School
Teacher: Frances
Goodrich



Spencer Skelley
Cross Roads Middle
School
Teacher: Linda Durstine



Chandler Barton
Dent Middle School
Teacher: Susan Yelton



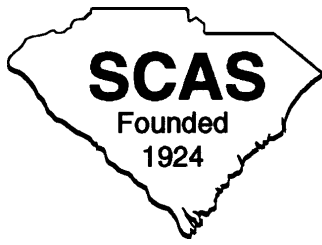
Rachitha Rajan
Dent Middle School
Teacher: Susan Yelton



Trevor Auman
Dent Middle School
Teacher : Susan Yelton

The Semifinalists were chosen for their ability to effectively communicate the reasoning and purpose behind their projects. The University of South Carolina Region II Science and Engineering fair, The South Carolina Academy of Science and the 30 or more Sponsors supporting the fair as well as the 200 Judges for Region II are impressed by each of the above seven students in their success explaining their work to others - a prerequisite for scientific leadership.

*Dr. Don Jordan, Director
USC Region II Central South Carolina Science & Engineering Fair*



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Rosemary Wicker, Western MESAS

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ACADEMY OF SCIENCE**

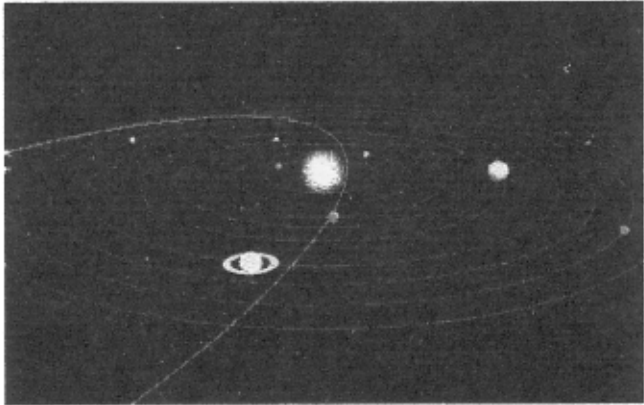


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Membership

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**Science
Fairs**

SCJAS

**Discovery
Fairs**

MESAS

Metric

www.erskine.edu/scas/index.html



**South Carolina Academy of Science
NEWSLETTER
J.L. Safko, Treasurer
Physics and Astronomy
University of South Carolina
Columbia, SC 29208**

**PRESORTED
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U.S. POSTAGE
PAID
PERMIT # 25
TAYLORS, SC 29687**