



South Carolina Academy of Science

Vol. 31, No. 2

Newsletter

Summer, 2005

10.8.2005 Midlands MESAS
Workshop, S.C.
State Univ.

11.2-4.2005 SCSC Conference
with Bill Nye,
Myrtle Beach, S.C.

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



SUMMARY OF THE SOUTH CAROLINA ACADEMY OF SCIENCE 78TH ANNUAL MEETING

The 78th Meeting of the South Carolina Academy of Science was held at Winthrop University on Wednesday, March 16, 2005. The Senior Academy had a very successful meeting with 213 registrants and 131 presentations including 30 poster entries. These presentations were from twenty-three different institutions across the State of South Carolina. There were twelve concurrent topical sessions during the morning and afternoon sessions. There were sixty-one undergraduate presentations representing eleven colleges and universities. Of these, eight undergraduates received category awards and two received overall best presentation awards.

The keynote address at the Joint Session of the Senior Academy and the Junior Academy was presented by Rudy Mancke, a highly respected South Carolina Naturalist and Distinguished Lecturer in Natural History at the University of South Carolina Columbia. His presentation was entitled: "The Nature of Natural History". His presentation was enthusiastically received by a large audience in Winthrop's historic Tillman Auditorium.

Also during the Joint Session several Awards were presented. Mrs. Maureen M. Albright from Lakewood High School was recognized as the recipient of the South Carolina Academy of Science Outstanding Teacher of the Year Award (Excellence in Secondary School Science Teaching). Dr. Frank Berger from the University of South Carolina Columbia received the Governor's Award for Excellence in Scientific Research. Dr. Gabriel Virella from the Medical University of South Carolina and Dr. Thomas Reeves from Midlands Technical College received the Governor's Award for Excellence in Scientific Awareness. Dr. Ya-Ping Sun from Clemson University received the Governor's Young Scientist Award for Excellence in Scientific Research.

The Junior Academy had a very successful meeting with 240 attendees and 131 oral presentations. The presentations were from ten high schools from across the State of South Carolina. There were twelve concurrent topical sessions during the morning and afternoon sessions. For the first time in the Academy's history, all oral presentations could be done using computer software. Sixty-seven oral presentations awards and sixty-four research paper awards were presented at the Awards dinner in Winthrop's beautiful McBryde Hall.

(Summary of Annual Meeting continued on page 3)

Undergraduate Research Competition
SCAS Annual Meeting, March 2005
Session Winners

Chemistry Meredith Tershansy	Department of Chemistry and Biochemistry, University of South Carolina - Columbia <i>Solvothermal Synthesis, Structural Determination, and Thermochromic Behavior of Several New Mixed-Metal Bismuth Halide Compounds</i>
Biochemistry Kyle Strickland	Department of Chemistry and Biochemistry, College of Charleston <i>Applications of Molecular Modeling to Drug Design</i>
Field Biology Amanda Walker	Division of Natural Sciences and Engineering, University of South Carolina Upstate <i>Survey of Odeur/Taste Producing Algae and Cyanobacteria in Lake Blalock and Lake Bowen</i>
Physics Joshua Witthuhn	Department of Physics and Astronomy, University of South Carolina - Columbia <i>Client-Server Data Acquisition Controller</i>
Geography/Geology Mark Creech	Department of Physics and Astronomy, College of Charleston <i>Modeling Earthquake Fault Interactions Using IDL</i>
Cellular Biology Rachel Fuller	Department of Biology, College of Charleston <i>Circadian Oscillations of Signaling Molecules in Mouse Peripheral Tissues</i>
Molecular Biology Travis Jenkins	Department of Biology, College of Charleston <i>A Role for a PLCα4-mediated Signal Transduction Pathway in the Circadian Clock of the Mouse Brain</i>
Astronomy Sarah Sonnett	Department of Physics and Astronomy, College of Charleston <i>A Tale of Two Stars: Analysis of Light Variations in Candidate Slowly Pulsating B and Gamma Doradus Variables</i>

Overall Winners

Best Presentation

Meredith Tershansy	Department of Chemistry and Biochemistry, University of South Carolina - Columbia <i>Solvothermal Synthesis, Structural Determination, and Thermochromic Behavior of Several New Mixed-Metal Bismuth Halide Compounds</i>
Travis Jenkins	Department of Biology, College of Charleston <i>A Role for a PLCα4-mediated Signal Transduction Pathway in the Circadian Clock of the Mouse Brain</i>

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Judges for Undergraduate Research Competition

Dr. John Dille
Department of Biology
Winthrop University

Dr. Jane Ellis
Department of Biology
Presbyterian College

Dr. Joe Emily
Department of Physical Sciences
South Carolina State University

Dr. Danny Faulkner
Department of Physics and Astronomy
University of South Carolina Lancaster

Dr. David Gangemi
GHS/CU Biomedical Cooperative
Clemson University

Dr. Laura Glasscock
Department of Biology
Winthrop University

Dr. Jan Haldeman
Department of Biology
Erskine College

Mr. David Heffner
Advanced Environmental Solutions
Lexington, SC

Dr. Stelios Kapranidis
Department of Chemistry and Physics
University of South Carolina Aiken

Dr. Judy Krueger
Division of Natural Sciences and Engineering
USC Upstate

Dr. Chad Leverette
Department of Chemistry and Physics
University of South Carolina Aiken

Dr. Jim Payne
Department of Physical Sciences
South Carolina State University

Dr. John Riley
DSB Scientific Consulting
Lugoff, SC

Dr. Ed. Sharp
Department of Geological Sciences
University of South Carolina Columbia

Dr. Walteena Simpson
Department of Biological Sciences
South Carolina State University

Dr. David Tedeschi
Department of Physics and Astronomy
University of South Carolina Columbia

(Summary of Annual Meeting continued from front page)

The Academy expresses sincere appreciation to the following people at Winthrop University who worked diligently to make the meeting a success: Dr. Chasta Parker, Assistant Professor of Chemistry; Dr. Debra Boyd, Dean of the College of Arts and Sciences; Mrs. Lee Miller, Administrative Assistant in the Department of Chemistry; Dr. Tom Moore, Vice President of Academic Affairs; Mrs. Wendi Hevelow, Administrative Assistant in the Department of Biology; Mr. Linda McKeown, Laboratory Manager in the Department of Biology; Dr. Cliff Calloway, Department of Chemistry; Ms. Maria Massey, Assistant to the Dean; Dr. Jo Koster, Department of English; Dr. Robin Lammi, Department of Chemistry; Dr. Marsha Bollinger, Department of Chemistry, Physics and Geology; Dr. Dwight Dimaculangan, Chairperson of the Department of Biology; and Dr. Gwen Daley, Department of Chemistry, Physics and Geology. In addition appreciation is expressed to Dr. James Privett from the University of South Carolina Sumter who served as the Program Chair for the Meeting. Many other individuals contributed to the success of the Meeting and their efforts are appreciated.

Governor's School for Science and Mathematics Summer Program for Research Interns



(Aaron Tripp, Jennifer Barwick & Dr. Murray Brockman)

Summertime at the Governor's School for Science and Mathematics doesn't mean things slow down for the students. Two weeks after school is out, all 62 of GSSM's rising seniors start their summer research assignments where they are paired with researchers in research labs at USC, Clemson, MUSC, College of Charleston and other sites for a 6-week mentored research internship. Twelve Summer Scholars from other high schools around the state have joined the GSSM students in this internship.

GSSM's Summer Program for Research Interns is one of the programs that makes the Governor's School experience unique, say Dr. Murray Brockman, Governor's School president. "GSSM is proud to have been leading the way to increasing involve-

ment of high school students in research," he says. "Not long ago, many people questioned whether high school students could fit into an ongoing research project and make a genuine contribution. Now, GSSM students do it routinely, and other schools around the state and nation are presenting similar challenges." He points particularly to programs at Cal Tech and MIT. He notes, "This is a natural extension of the long-standing trend in undergraduate science education to emphasize research experience."

The Summer Program for Research Interns starts in the spring of the student's junior year at GSSM. They are paired with mentors who have volunteered to work with the program at the various universities. Each student is also assigned a GSSM faculty advisor to help direct the project.

A week after school is out in May, students arrive on the university campuses already prepared for dorm life after a year on the Governor's School campus. They receive an orientation to the campus, a refresher on lab safety and research ethics, and immediately get to work in the labs.

"The first couple of days in the labs the students are usually just overwhelmed because they've been thrown into something completely unfamiliar," Brockman says. "After just a very few days, however, they have gained tremendous confidence in what they're doing. By the end of the six weeks, they can talk very articulately about their research and how it fits into their mentor's big picture research. We hear year after year from our graduates who have said this research experience was a defining factor in their college and career decisions."

Although GSSM students have worked at literally dozens of research sites, primary partners have been USC-Columbia and Clemson. This year the program has expanded to include a large group working at MUSC. Dr. Ray Greenberg, president of MUSC and chairman of the GSSM Board of Trustees was instrumental in getting this partnership underway.

"When Dr. Greenberg asked for researchers at MUSC to serve as mentors for this program, he wasn't sure there would be

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enough interest the first year,” Brockman says. “But within just a few hours, he had more than enough to match with our students interested in working at MUSC. That is a real testament to the level of work these students are doing. And it’s a strong indicator of the commitment to basic education at the highest levels of research around the state.”

The primary role of the mentor is to identify a project for the student that can be accomplished within a six-week period of time. Recognizing most major research projects take at least two years to complete, identifying a piece of the project that can be completed within a short time frame for the student is critical. The hands-on nature of the program gives students a real insider’s perspective on what scientific research involves.

“This isn’t a busy-work internship,” Brockman emphasizes. “Each student is expected to work independently, perform the research, complete the project, then write a paper on the results of his or her research. In many cases, our students have joined their mentor in publishing in the peer-reviewed literature.”

Brockman also highlights the reasoning behind the choice of mentored research as the capstone experience at GSSM. “The critical choice is between an independent research project or a mentored one,” he notes. “An independent project emphasizes creativity and insight, but depth may be limited by the student’s inexperience, and it can sometimes be difficult to distinguish the student’s contribution from a senior associate’s. We feel that mentored research offers the cleanest and quickest approach to a learning opportunity that can help inform career choices.” SCJAS has helped by creating separate categories and criteria for evaluating mentored and independent research.

Once the students return to the Governor’s School as seniors, they work through the fall with their GSSM advisors to write their research paper and prepare their oral presentations. The students present their projects at SCJAS each year and also participate in GSSM’s annual Research Colloquium.

As part of its outreach mission, GSSM also makes this internship available to qualified students from other high schools around the state. This year, twelve students are participating as part of the summer program.

Since this program is required of all rising seniors at GSSM, the school has always worked to ensure that the families of the students don’t bear the costs associated with the program. Thanks to a partnership with the participating universities and substantial private sector support through the Governor’s School Foundation, all GSSM students and the summer scholars receive a fellowship that covers the full cost of the internship since funding for this program isn’t covered by state appropriations.



Bill Nye the Science Guy is coming to South Carolina!



The South Carolina Science Council is proud to announce that “Bill Nye, the Science Guy” will deliver the keynote address at the 30th Annual Conference in Myrtle Beach on November 2-4, 2005. Bill Nye, scientist/comedian/teacher/author, is a man with a mission. He’s out to turn kids on to the way cool wonders of science! With his weekly, half-hour television series, “Disney Presents Bill Nye the Science Guy,” he’s letting kids know that science is not only cool, it’s powerful. After all, “Science rules!”

For more information, see www.scscience.org.

Recipients of the 2005 Governor's Awards for Excellence in Science



(Dr. Dave Stroup, SCAS President, Dr. Franklin Berger, Mrs. Maureen M. Albright (Teacher of the Year), Dr. Gabriel Verella and Dr. Tom Reeves)

The Governor's Awards for Excellence in Science were presented to Dr. Frank Berger, Dr. Gabriel Virella, Dr. Thomas Reeves and Dr. Ya-Ping Sun at the Governor's Award Ceremony held in the Governor's Office.

The award 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.

In 2005 the Academy, in conjunction with the Governor's Office, initiated the sponsorship of a third award directed to a gifted young researcher (Approximately 10 years or less experience). The award is called the Governor's Young Scientist Award for Excellence in Scientific Research and was sponsored by Michelin North America.

The 2005 Governor's Award for Science Awareness is awarded to both Dr. Gabriella Virella of the Medical University of South Carolina, and Dr. Thomas Reeves of Midlands Technical College.

Dr. Gabriel Virella obtained his MD degree at the University of Lisbon, Portugal, in 1967. He did post-doctoral studies in Immunology at the Dept. of Experimental Pathology, University of Birmingham, England (1968-69) and at the National Inst. for Medical Research, Mill Hill, London, England (1969-1970). From 1970 to 1975 he was a Researcher at the Gulbenkian Institute of Science, Oeiras, Portugal. In 1974 he obtained a Doctorate in Medicine (Microbiology), also at the University of Lisbon. He moved to the Medical University of South Carolina in 1975, where he became a Professor of Immunology and Microbiology in 1980. He is also an Adjunct Professor of Immunology in the University of Lisbon, Portugal.

He has published 220 articles on topics related primarily to immunology, with particular emphasis on immunoglobulin structure and abnormalities, immune complex diseases, and the involvement of autoimmune phenomena in the pathogenesis of atherosclerosis. He has described original techniques for the isolation and characterization of antigen-antibody complexes, enzymeimmunoassays for tetanus and diphtheria antibodies, and for modified LDL antibodies. He has also developed capture assays for different LDL modifications whose clinical relevance is being investigated. His research is funded by the NIH, VA, and Juvenile Diabetes Research Foundation.

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Another significant aspect of his career has been his involvement on the education of medical and graduate students. His efforts in teaching have been rewarded with the AAMC/AOA Distinguished Teacher Award (2004), the MUSC Health Science Foundation Teaching Excellence Award (1996) and eight Golden Apple Awards. In 1988, he was elected to the medical honor society AOA and has served as Councilor of the Medical University-AOA Branch since 1993. He has published three textbooks; “Introduction to Medical Immunology”, Marcel Dekker, NY, currently on its fifth edition, “NMS Microbiology and Infectious Diseases”, 3rd Ed, Williams & Wilkins, 1997, and “NMS Q&A Microbiology, Immunology, and Infectious Diseases”, Lippincott Williams & Wilkins, 1999.

During his long tenure as course director and later as coordinator of the Infection and Immunity course, Dr. Virella developed and introduced many innovative features, particularly exercises for case-based learning and computer-based cases for Infectious Diseases. As a year 2 Coordinator for the College of Medicine, he has played a key role in curricular reform. He has presented seminars and workshops across the nation on his innovative approaches to teaching Immunology and Microbiology. In 1993 and 1997 he served as local host and co-organizer of a meeting on “New Educational Strategies For The Basic Sciences”, co-sponsored by the AAMC:GEA’s Basic Science Education Forum and the Medical University of South Carolina.

For the past 26 years Dr. Reeves has served as a science teacher in South Carolina; ten years at Brookland-Cayce High School and the past fifteen years at Midlands Technical College, while also serving as an adjunct biology instructor at the University of South Carolina. During this time, he has taught courses in physical science, chemistry, Advanced Placement biology, general biology, ecology, human anatomy and physiology, zoology, and microbiology. Throughout his career, Dr. Reeves has been actively involved with the development of innovative science courses and programs including Biology 206; a community-based Ecology Lab that allowed environmental science to be offered for the first time as a laboratory science course in the technical college system, and Biology 290; a research-based internship program that has allowed more than 90 Midlands Technical College students to gain research and job experience in a dozen biological fields.

As a secondary and technical college science instructor, Dr. Reeves has consistently stressed the importance of research in science education and served as mentor to more than 150 student research projects at Brookland-Cayce High School, as well as more than 90 student research projects at Midlands Technical College. The majority of these students have then presented their research at professional meetings or competitions, in many cases receiving state and national recognition.

For the past five years, Dr. Reeves has developed and served as Coordinator of *Preparing Future Faculty* at the University of South Carolina, a program designed to improve the instructional skills and experience of doctoral students in math and science. More than 100 graduate students in seven disciplines have participated in the program, and seven have completed all certification requirements outlined by the program.

The 2005 Governor’s Award for Excellence in Scientific Research goes to Dr. Franklin Berger of the University of South Carolina.

In his 19 years at the University of South Carolina, Dr. Berger has established himself as an esteemed authority in the area of colon cancer in the USA, and one of the top scientists in this field worldwide.

Dr. Berger’s research program centers on the molecular biology of growth and maintenance of tumors in the colon and mechanisms by which they can be controlled. His work has far-reaching significance for a variety of areas: the mechanisms by which chemotherapeutic agents control the growth of cancer cells; the role of whole tissue complexes in maintenance and growth of tumors; and signaling mechanisms that are critical for tumor viability.

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Dr. Berger is the author of over 80 peer-reviewed publications and trained over 20 Ph.D.s and Postdoctoral Fellows. Over the past twenty years, Dr. Berger has served the National Institutes of Health on seventeen Review Panels and five Site Visits. In 1990, he was a Fulbright Fellow at the University of Lund, Sweden, and in 1999 he received the University of South Carolina's Educational Foundation Research Award for Science, Mathematics and Engineering. He has generated over \$15 million in extramural grant support for his research program, including an NIH Cobra Grant to support the USC Center for Colon Cancer Research. He presently is the George H. Bunch, Sr. Professor of Science and, following six years as Chair of the Department of Biological Sciences, he is now the Director of the Center for Colon Cancer Research.

In summary, Dr. Berger's scholarly work has brought great recognition to South Carolina in the field of molecular biology of cancer. The results of his research provide invaluable contributions to better understand both the nature and growth of cancer of the colon. His studies on the basic relationship between cancer cells and the normal cells that surround and associate with the cancer cells have broken new ground. His results will help lead to both a better understanding of how cancers start and progress and how we can disrupt these processes and eventually provide safe, effective cures for this deadly disease.

The 2005 Governor's Young Scientist Award for Excellence in Scientific Research goes to Dr. Ya-Ping Sun of Clemson University.

Dr. Sun received his Ph.D. in Physical Chemistry from Florida State University in 1989, and conducted postdoctoral research at the University of Texas before accepting a faculty position at Clemson in 1992. He rose rapidly through the ranks, being promoted to full professor in only seven years.

Dr. Sun is widely recognized as one of the very best young faculty members in the U.S. His record of accomplishments is phenomenal for one so early in his career. His awards include the 1999 College of Engineering and Science Award for Excellence in the Sciences and 2001 Provost's Award for Scholarly Achievement. In 1995 he was named as one of the "15 Brightest Starts in Analytical Spectroscopy" by the Editorial Board of *Spectroscopy*, and he recently became the Frank Henry Leslie Chair of Natural & Physical Sciences. Since coming to Clemson he has published more than 140 peer-reviewed articles in national and international journals, plus numerous reviews and book chapters. He is principal investigator on nine grants totaling \$1.8 million dollars in current funding for his research, and is co-investigator on a \$540,000 USDA grant. Dr. Sun has been instrumental in several state-wide initiatives to improve the infrastructure for science and technology in the state and at Clemson University, including a recently awarded \$3 million dollar grant from the National Science Foundation. He also is the Chair of the Frank Henry Leslie Natural & Physical Sciences Committee at Clemson University.

Dr. Sun's research interests include organic photochemistry, reactions in supercritical fluids, and the synthesis of new fullerene and carbon nanotube derivatives. He is a leading expert in the application of these interesting carbon materials in biology and optical materials in substituted polymers. More recently he has expanded his interests to include nanoscale materials. These materials, consisting of particles with dimensions in the nanometer range, have significantly different optical and electronic properties from normal materials and Professor Sun has made many exciting new discoveries for their use in optical, electronic and biological applications. The strength of his contributions to this field has led to collaborations with research groups at the University of Rochester, Duke University, [Southern Methodist University](#), NASA Langley Research Center, Air Force Research Laboratory, Army Research Laboratory, Oak Ridge National Laboratory, and Idaho National Engineering and Environmental Laboratory.

ANNOUNCING

FALL WORKSHOP
for
**MIDDLE/ELEMENTARY SCHOOL
ACADEMY OF SCIENCE**

Midlands Fall Workshop Date: October 8, 2005

South Carolina State University

Western Fall Workshop Date: October 15, 2005

Furman University

Who Can Attend: Students in grades 4 - 8, parents, & teachers

Parents are Welcome to Attend!
Great Ideas for Classroom Teachers, too!

For more information about the scheduled workshop, to register
or how to join the Middle/Elementary School Academy of Science,
contact:

Dr. Don Jordan, Executive Director, MESAS
College of Arts & Sciences / Center for Science Education / Sumwalt Room 323 /
University of South Carolina / Columbia, SC 29208
Phone: (803) 777-7007; or FAX (803) 777-4396; or E-mail: jordan@gwm.sc.edu
Web: www.cosm.sc.edu/jordan under Middle / Elementary School Academy of Science

NURTURING SCIENCE AND MATH IN SOUTH CAROLINA

for GRADES 4-8

Sponsored by the South Carolina Academy of Science, South Carolina State University & Furman University

Please copy, distribute, and post for teachers, students and parents to see.

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.

**UNIVERSITY OF SOUTH CAROLINA
REGION II SCIENCE & ENGINEERING FAIR**

for Calhoun, Clarendon, Fairfield, Kershaw, Lexington, Newberry, Orangeburg, Richland, and Sumter counties.

2005 SUMMARY OF WINNERS, By Dr. Don M. Jordan, Director

The University of South Carolina hosted the Central South Carolina Region II Science & Engineering Fair on March 18, 2005. Students from nine counties (listed above) competed for over \$30,000.00 in scholarships, savings bonds, and trip awards.

Five hundred fifty-five students and one hundred twenty-six teachers participated in the fair. The students were selected by over two Hundred judges comprised of College Professors, Medical Scientists, U.S. Army, Marine, and Air Force officers, as well as business leaders from the Midlands Community. Awards were available in 52 major categories, such as Engineering, Women in Science, Vision Science, Chemistry, etc. Most awards had Junior, Senior, and Team subcategories, often with 1st, 2nd, 3rd and Honorary Mention standings awarded. There were a total of 193 awards given among those varied categories and standings. Students with very good projects had a possibility of winning awards in one or more categories. There were best overall standings for grades 5-12, as well as for best individual Junior Division, Senior Division and Team Division projects.

Participation in science fairs on the local, regional, and national/international levels presents opportunities to students for travel and interaction with scientists from both academic and industrial backgrounds. The next level of competition is at the **International Science and Engineering Fair (ISEF)**, which is held annually and features the best regional/national student projects from around the world. Our regional judges selected six students and four teachers to be in the Official Party to represent South Carolina at ISEF in Phoenix, Arizona, May 08-14, 2005.

The **University of South Carolina**, with support from the **South Carolina Academy of Science**, sent the following students to **ISEF**: Grand Prize Team Senior Division winners, **Luis M. Suarez and Alex Zhang** of Dreher High School, Grand Prize Female Senior Division winner **Melanie Rose Clemenz** of Dutch Fork High School and Grand Prize Male Senior Division winner **Patrick Hankins** of Irmo High School. Students to be sent as official observers are **Kala Seidenberg** of Richland Northeast High School and **Karla Williams** of Spring Valley High School. USC sent **Michelle Sutton** of Spring Valley High School to lead the official ISEF party for the State of South Carolina. In addition, **Laura Lanni** of Spring Valley High School, **Catherine H. Williams** of Dreher High School and **Ginger Foley** of Richland Northeast High School will be teacher leaders and mentors for the USC Region II. The above six students will be representing South Carolina at the International Science and Engineering Fair May 08 – 14, 2005 at Phoenix, Arizona. A report on their success will be added to this summary. In addition, students **Asif Khan** of Spring Valley High School, **Anand Sandhinti** of Spring Valley High School, **Mary Beth Ward** of Dreher High School and **Sarah Winn** of Spring Valley High School won Male and Female 2nd & 3rd place winners.

DISCOVERY CHANNEL YOUNG SCIENCE CHALLENGE / HISTORICAL CHANGES/

We have worked hard in the past seven years to strengthen the USC Central South Carolina Science & Engineering Fair. We made it possible for sixth graders to become eligible for the Region II Science & Engineering Fair in 1996. We re-introduced Team Projects in 1997 - the first time in four decades for Region II! In 1999, we lowered the grade limit to enable fifth-grade students in the nine-county region to become eligible. We did this because Science Service of Washington, D.C. had contracted with Discovery Channel Inc., to create what has become essentially the ISEF for students in grades 5-8 (ISEF is restricted to grades 9-12). We nominated 58 middle school students to compete in DYSC in 2005. DYSC nominees receive national recognition from Science Service that includes an honor certificate, a DYSC T-shirt, a lapel pin recognizing their achievement and an entry form to compete with 6,000 other students at the international level.

USC Region II Winners of Grand Awards Junior Division

Katelyn Bowie, (Crayton Middle School, Sponsor Andrea Karaffa) research project entitled *I Feel The Need, The Need for Speed*, won First Place. **Mason Thornley**, (Lugoff Elementary School, Sponsor Emma Segars) research project entitled *Eye Color More Than Meets the Eye*, won Second Place. **Nadine Leudicke**, (Summit Parkway Middle School, Sponsor Jennifer N. Sullivan) research project entitled *Stop, Drop And Roll Going For Distance While Changing Incline and Length*, won Third Place. Also **Rachitha Rajan** of Dent Middle School and **Velina Kozareva** of Harbison West Elementary School are listed as Honorable Mentions — out of over 450 junior division participants from nine counties. The above three grand awards winners join fifty five (55) additional students that will represent South Carolina in the **Discovery Channel**

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Young Science Challenge (DCYSC) during the Summer of 2005.

Austin Layden, David Hicks and Joesph Ghosheh, (Crayton Middle School, Sponsor Ilona Sunday) research project entitled *Will Using A More Expensive Brand of Suntan Lotion Insure Better Protection from The Sun's Rays?* Won **First Place** Junior Team Division. **Katie Foshee and Matthew Wilson**, (Blythewood Middle School, Sponsor Jamie Westmoreland) research project entitled *Unidentified Flying Fun*, won **Second Place** Junior Division Team. **Robert Llyod and Giovanni Dwight**, (Webber Elementary School, Sponsor Amy Umberger) research project entitled *Horrible Funky Feet*, won **Third Place** in the Team Division.

USC Science & Engineering Fair tours for Science Fair Students

The University of South Carolina sponsored five active and hands-on tours on March 18, 2005 for High School Students and Middle School Students who advanced to the USC Region II Science & Engineering Fair. The tours were scheduled between 12:30 PM to 5:30 PM on the afternoon of March 18, 2005.

Tour # 1: *Geographic Information Systems (GIS): Tour Hosted by the U.S.C. College of Liberal Arts / Dept of Geography presented by Kevin Remington, GIS Coordinator.*

Tour # 2: *USC School of Medicine: Careers in the Health Professions*, Richard A. Hoppmann, M. D. Associate Dean for Medical Education and Academic Affairs. *Pathology/Plastinated Human Specimens* Tim Sullivan, Ph.D. Department of Pathology and Microbiology.

Tour # 3: *Electron Microscopy Center: Hosted by Dana G. Dunkelberger.* The Electron Microscopy Center is the university system's centralized analytical microscopy and imaging center. Our world class facility has over \$3 million worth of state-of-the-art instrumentation capable of analyzing the structure and elemental composition of materials. The tour included a demonstration and discussion of the capabilities of our Room-size transmission and scanning electron microscopes.

Tour # 4: *Super Conductivity and Magnetism, Low Temperature Laboratory:* Sponsored by the College of Arts & Science: Hosted by Dr. David Tedeschi of the Physics Department. This tour featured demonstrations and activities in low temperature physics and magnetism for all grade levels. The astronomy center showcased the use of computers for research and teaching. In addition, the astronomy center made a telescope available for public solar viewing.

Tour # 5: *College of Engineering & Information Technology: Mini Baja Dune Buggy Demonstration* Hosted by Susan Jarvie, Department of Mechanical Engineering. *Robotics* presented by Department of Electrical Engineering.

SCAS JOURNAL UPDATE

Manuscripts for the Fall, 2006 issue of the Journal of the South Carolina Academy of Sciences are now being accepted. I would like to thank the many individuals who submitted manuscripts for peer-review and possible inclusion in this Fall's publication (Volume 3)! Manuscripts for the Fall issue are currently in review or are completing the editing process. I anticipate publication of this year's Journal to be in late September or early October. The diversity of submission has increased substantially and the quality of submissions has been very good. Special thanks to presenters at the SCAS 2005 annual meeting who submitted their extended abstracts, as requested, for publication in the Journal's non-peer reviewed "meeting proceedings" section. This fall's issue should be the largest and best yet!

Please remember, the SCAS Journal welcomes not only full-length manuscripts but also short articles, field notes or observations, and techniques papers. All SCAS members are welcome to contribute. Help us improve and grow the Journal - dust off those manuscripts and send them in!

If you have not checked out the SCAS Journal, please peruse this on-line peer-reviewed publication. Just go the the SCAS website and click on the "SCAS JOURNAL" link.

-- David Ferris, *Journal Editor-in-Chief*

South Carolina Academy of Science Announces the 2005 Phoenix – ISEF Participants (Winners at Regional Fairs)

Central Savannah River Area Science Fair

Director – Dr. Richard Hane
Lauren Wooten Smith (Finalist)
William Jagoe (Finalist)
Mary Elizabeth Hannah
(Observer/Fair Ambassador)
Cynthia Pousman
(Accompanying Adult-In-Charge)*
Sherren Hanna (Parent)

Low Country Science Fair

Director – Starr Jordan
Ching Zhu (Finalist)
Paul Jarrett (Finalist)
Molly Woofter
(Accompanying Adult-In-Charge/Teacher)

Anderson-Oconee Pickens Regional Science Fair

Director – Angela Foxx
Amanda Graham (Finalist)
D. Christopher Balding (Finalist)
Robert Newton
(Accompanying Adult-In-Charge)

Central South Carolina Region II Science & Engineering Fair

Director – Dr. Don Jordan
Patrick Hankins (Finalist)
Melanie Clemenz (Finalist)
Luis Suaret & Alex Zhang (Finalist-Team)
Kala Seidenberg & Karla Williams
(Observers/Fair Ambassadors)
Laura Lanni (Teacher)
Catherine Williams (Teacher)
Ginger Foley (Teacher/Asst adult in charge)
Michelle Sutton
(Accompanying Adult-In-Charge/Teacher)

Sand Hills Regional Science Fair

Director – Richard West
Gerald Porter (Accompanying Adult-In-Charge/Teacher)
Faith Ezekiel (Finalist)

Greenville Co. and S.C. Regional Science & Engineering Fair

Director - Mr. Greg Cornwell
Aaron Cheung (Finalist)
Christopher Siden (Finalist)
Stephanie Hoo (Observer)
Tom Rogers
(Teacher/Accompanying Adult-In-Charge)

Sea Island Regional Science Fair – Jr. Division

Graham Gintz (Finalist)
Ryan Clark (Finalist)
Christopher Todd & Erik Kurtz (Finalist-Team)
Matthew Lindner (Teacher)
Diana Clark (Accompanying Adult-In-Charge)

Sea Island Regional Science Fair – Sr. Division

Director/Teacher/Advisory Council Member –
Ms. Tina Webb-Browning**
Alex Mavrogordato (Finalist)
Danny Verwholt (Finalist)
Laurent Hughes & Sara Posey (Finalist-Team)
Elizabeth Brown (Observer/Fair Ambassador)
Chris Gintz (Judge/Accompanying Adult-In-Charge)
Dr. Helen Ryan (Principal)

Piedmont South Carolina Region III Science Fair

Director – Dr. Lyle Campbell
Amber Wray (Finalist)
Eboni-Shanielle Wafford (Finalist)
Summer Yeargin
(Teacher/Accompanying Adult-In-Charge)

- Compiled and edited by Dr. Don M. Jordan

The South Carolina CMS Program

By Dr. Don M. Jordan

The USMA CMS Program is designed to provide documentary evidence for individuals who can qualify as metric specialists because of their education and experience in the use of the modernized metric system—known as SI (*systeme international d’unites*).

The CMS program is structured to help maintain professional standards in the field of metrication. With the United States’ conversion to SI, companies, schools, agencies, businesses, and other facilities will seek personnel who, in addition to their job skills, are knowledgeable about SI. The USMA CMS Program is designed to give both employers and employees the documented evidence that an individual’s qualifications have been carefully screened to verify that he or she has the background and ability to use the SI version of the metric system correctly.

The South Carolina version of the CMS Program encourages each school superintendent in the state to recommend one person from his/her district to be certified. Ideally we want each of 1,645 schools in the state to employ a certified metric specialist. Names of successful candidates will be added to all USMA lists and, for SC educators, names will be published in both the *SCJAS Newsletter* and the *SCAS Newsletter*. Names will also be forwarded to the State Department of Education, the Commission on Higher Education, and the United States Department of Commerce.

The CMS Program is proud to announce the following who recently have been granted CMS status.

Shanise Brown	Hand Middle School Cert # 387
Linda M. Jackson	Caughman Rd. Elementary Cert # 388
Bobbi Sue Wrenn	Southeast Middle School Cent # 389
Kimrey Smith	St. Andrews Middle School Cert # 390
Roger Skillman	Anderson County Alternative School Cert # 391
Randolph Brooks	Dreher High School Cert # 392
Michael J. Kramer	Batesburg-Leesville School Cert # 393
Heather E. Nix	Airport High School Cert # 394

The Above Teachers completed their Exam with respect to a SMED through the Center for Science Education or at the South Carolina Science Council Annual Meeting.

The “WE COULDN’T DO IT WITHOUT YOUR ‘AWARDS!’”

Many dedicated people provide much-needed support for the USC Region II Science & Engineering Fair.

These people make it possible! Special thanks go to:

President Dr. Andrew Sorensen
Office of the President

Provost Mark Becker
Office of the Provost

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College of Engineering

Dean Mary Anne Fitzpatrick
College of Arts & Sciences

Dr. Scott Little
EPSCOR Office

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VP for Research
University of South Carolina

Dean Patricia Moody
College of Hospitality
Retail & Sport Management

Colonial Supplemental Insurance
Sponsor – 2005 Judges Dinner

Dr. Larry R. Faulkner
VP Med Affairs & Dean
USC School of Medicine

Dean Mary Ann Parsons
College of Nursing

2005 MESAS MAIL-IN CONTEST

SETS A RECORD NUMBER OF ENTRIES: 678

Winners Announced May 2005, By Dr. Don M. Jordan, MESAS State Director

The State-wide MESAS mail-in contest was held this winter & spring. There were a record number 678 entries, with 514 students from grades 4-6 and 164 students from grades 6-8. This year, the contests proved to be especially challenging and covered a broad range of topics with emphasis on Geology. We are grateful to the College of Charleston for the creation of this year's contest. The authors of the 2005 contest are faculty and staff from the College of Charleston. They are: Dr. Cassandra J. Runyon, Department of Geology and SCAS Board Member, Dr. Betsy Martin, Department of Chemistry and Governor's Award Winner for Excellence in Science, Starr Jordan, Lowcountry Hall of Science and Math, and Lowcountry Science and Engineering Fair Director, and Kathryn Guimond, SERCH Program Manager and Education Specialist.

Awards were given in four categories; Grand, State, Regional and School Winners. A unique feature of the contest is that every school that participates is guaranteed at least one winner. The Grand Prizes went to 17 students from five regions who submitted the best overall papers. **Region I:** Patrick Bachanan of Westview Middle, John Isenhower and Jason Isenhower of Cambridge Academy, **Region II:** Tanner Werts of Pomaria Garmany Elementary, Afia Kahn of Lonnie B. Nelson, Matthew Kunkle of Mid Carolina Middle, Thomas Jones of Kimberly Jones Homeschool, Huzaifah Adnan and Hidayah Adnan of Islamic Academy of Columbia; **Region IV:** Brooke Kirkland of Palmetto Elementary and Stewart Bryant of Montessori School of Florence; **Region V:** Karen Mok & Geyson Kerley of Rollings Middle School of Arts, Nicole Stickley of Sangaree Intermediate and Jasmine Mack of St. Stephen Middle School and Jonathan Graham of JSJ Academy (Homeschool); And **Region VII** Adam Lipsitz of Mossy Oaks. The above list are this year's Grand Prize Winners. Congratulations!

The contest scores were very good overall and a large percentage of the entrants qualified for an award. We had 207 winners out of 678 participants (approx 30% of the total number of participants were winners). Certificates and prizes were mailed out to each student's principal so that the awards could be presented at each school's Awards Assembly. We congratulate each and every contestant for his or her fine efforts! We encourage every student in all South Carolina schools to participate next year. Below is a list of the winners, their prize, as well as their sponsor and school information:

Grade	Winner	\$ Amt	SCHOOL	Reg	Grade	Winner	\$ Amt	SCHOOL	Reg
GRAND PRIZE WINNERS									
5	John Isenhower	\$100	Cambridge Academy	I	5	Ewa Buczulinska	\$75	Richard Carrol ElemCampus B	II
8	Jason Isenhower	\$100	Cambridge Academy	I	5	Elizabeth Glenn	\$75	Richard Carrol ElemCampus B	II
	Thomas Jones	\$100	Homeschool of Kimberly Jones	II	6	Eric Kan	\$75	Riverside Middle	I
7	Huzaifah Adnan	\$100	Islamic Academy of Columbia	II	7	Alice Chang	\$75	Rollings Middle School of Arts	V
8	Hidayah Adnan	\$100	Islamic Academy of Columbia	II	7	Rowan Armstrong	\$75	Rollings Middle School of Arts	V
7	Jonathan Graham	\$100	JSJ Academy (Homeschool)	V	8	Victor Imko	\$75	Rollings Middle School of Arts	V
5	Afia Kahn	\$100	Lonnie B. Nelson	II	4	Jami Bunton	\$75	St. Andrews School of Math & Sci	V
7	Matthew Kunkle	\$100	Mid Carolina Middle	II	4	Kasey Chesser	\$75	White Knoll Elementary	II
6	Stewart Bryant	\$100	Montessori School of Florence	IV	8	Bennet Bush	\$75	Wright Middle	I
4	Adam Lipsitz	\$100	Mossy Oaks Elementary	VII	REGIONAL PRIZE WINNERS				
5	Brooke Kirkland	\$100	Palmetto Elementary	IV	5	Tyler Ray	\$50	Andrews Elementary	IV
5	Tanner Werts	\$100	Pomaria Garmany Elementary	II	7	Daniel McDuffie	\$50	Bates Middle	II
8	Karen Mok	\$100	Rollings Middle School of Arts	V	7	Zachary Wardlaw	\$50	Belton Middle	I
8	Greyson Kerley	\$100	Rollings Middle School of Arts	V	7	Benjamin Thomas	\$50	Belton Middle	I
5	Nicole Stickley	\$100	Sangaree Intermediate	V	7	Katherine Clinkscales	\$50	Belton Middle	I
8	Jasmine Mack	\$100	St. Stephen Middle School	V	7	Hayden Jennings	\$50	Belton Middle	I
6	Patrick Bachanan	\$100	Westview Middle	I	7	Luke McClain	\$50	Belton Middle	I
STATE PRIZE WINNERS									
6	Taylor Richey	\$75	Belton Middle	I	7	Nicole Shannon	\$50	Belton Middle	I
7	Lauren Shirley	\$75	Belton Middle	I	8	Trevor Richey	\$50	Belton Middle	I
7	Richard Dorn	\$75	Belton Middle	I	7	Katie Pruett	\$50	Branchville High	II
7	Katalin Bartz	\$75	Cambridge Academy	I	6	Miranda Oxner	\$50	Cambridge Academy	I
8	Kaleigh Wardlaw	\$75	Camden Middle School	II	6	Ryan Gonzalez	\$50	Cambridge Academy	I
4	Jared Hipp	\$75	Centerville Elementary	I	8	Johnny Connare	\$50	Camden Middle School	II
4	Carl Garris	\$75	Chapin Elementary	II	8	Jonathan Windham	\$50	Camden Middle School	II
6	Becca Evans	\$75	Chereekee Trail Elementary	I	8	Joseph Stokes	\$50	Camden Middle School	II
6	Marissa Rawski	\$75	Chereekee Trail Elementary	I	4	Emily Patterson	\$50	Centerville Elementary	I
8	Caitlin Orr	\$75	Covenant Christain School	II	6	Rick Patterson	\$50	Chereekee Trail Elementary	I
4	Grace Westbury	\$75	Dorchester Academy	V	4	Darius Newman	\$50	Crestview Elementary	I
5	Morgan Godines	\$75	Godines Academy	II	5	Egan Barrs	\$50	Crestview Elementary	I
7	Austin Godines	\$75	Godines Academy	II	8	Theta Brown	\$50	Heyward Gibbes Middle	II
6	Bushra Rahman	\$75	Islamic Academy of Columbia	II	5	Sarah Fishburne	\$50	Holly Springs Elementary	I
8	Stephanie Kohl	\$75	Kohl Discovery School	V	4	Elizabeth Anne Orr	\$50	Home School	I
4	Michael Brown	\$75	McCormick Elementary	IV	6	Thomas Orr	\$50	Home School	I
8	Alan Brenner	\$75	Mid Carolina Middle	II	6	Zachary Tarrant	\$50	Hunter Kinard Tyler Elementary	II
6	Alexandra McKenzie	\$75	Montessori School of Florence	IV	5	Tammaka Staley	\$50	John P. Thomas	II
4	Jeremy Wu	\$75	Nursery Road Elementary	II	4	Sarah Graham	\$50	JSJ Academy (Homeschool)	V
					7	Travis Graham	\$50	JV Martin Jr. High	IV

4	Ryan Liner	\$75	Port Royal Elementary	VII	6	Calla Shepard	\$50	Kelly Mill Middle	II
2	Johathan Bartlett	\$75	Renaissance Elem Academy	II	4	John Black	\$50	Killian Elementary	II
4	Benjamin Bartlett	\$75	Renaissance Elem Academy	II	6	Jessica Kohl	\$50	Kohl Discovery School	V
REGIONAL PRIZE WINNERS					SCHOOL PRIZE WINNERS				
5	Jacob Hoffman	\$50	Lake Forest Elementary	I	5	Billy Joye	\$25	Andrews Elementary	IV
5	Arjun Aggarwal	\$50	Lexington Elementary	II	5	Tanisha Nesmith	\$25	Andrews Elementary	IV
4	Daria Light	\$50	Light Home School	V	6	Arthur Anglin	\$25	Beaufort Middle	VII
5	Paul Williams	\$50	Lockett Elementary	II	7	Sue Ann Simpson	\$25	Belton Middle	I
6	Kaitlin McClure	\$50	Lockett Elementary	II	7	Emily Loudermilk	\$25	Belton Middle	I
7	Christopher Frost	\$50	Marrington Middle	V	7	Erin Bidwell	\$25	Belton Middle	I
8	Denicsha Bennamon	\$50	Marrington Middle	V	7	Anna Miller	\$25	Belton Middle	I
4	Victoria Stokely	\$50	McCormick Elementary	IV	7	Lauren Brown	\$25	Belton Middle	I
4	Andrew Shealy	\$50	Nursery Road Elementary	II	7	Jeremy Wardlaw	\$25	Belton Middle	I
5	Tyahn Jenifer	\$50	Palmetto Elementary	IV	7	Molly Clinkscales	\$25	Belton Middle	I
5	Latesha Edge	\$50	Palmetto Elementary	IV	7	Creed Campbell	\$25	Belton Middle	I
5	Andrew Anderson	\$50	Plain Elementary	I	7	Kelsey Smith	\$25	Belton Middle	I
5	Alex Stewart	\$50	Plain Elementary	I	5	Braydan Keasler	\$25	Ben Hagood Elementary	I
5	Joseph Brookbank	\$50	Plain Elementary	I	8	Emily Horton	\$25	Blue Ridge Middle	I
5	Drew Ricard	\$50	Pomaria Garmany Elementary	II	4	Theodore Vargo	\$25	Boulder Bluff Elementary	V
5	Elizabeth Nichols	\$50	Pomaria Garmany Elementary	II	5	Sean Bell	\$25	Boulder Bluff Elementary	V
5	Cody Martinez	\$50	Port Royal Elementary	VII	5	Austin Westwood	\$25	Boundary Street Elementary	II
5	Brent Cook	\$50	Richard Carrol Elem Campus B	II	7	Caitlin Mills	\$25	Branchville High	II
5	Deanna Nowell	\$50	Richard Winn Academy	II	8	Patrick Vallentine	\$25	Branchville High	II
6	Eric Kan	\$50	Riverside Middle	I	8	Kearsten Furtick	\$25	Branchville High	II
6	Gray Sauer	\$50	Rollings Middle School of Arts	V	8	John Ott	\$25	Branchville High	II
7	Grace DeLuca	\$50	Rollings Middle School of Arts	V	4	Angel Gordon	\$25	Burton Pack Elementary	II
8	Laura Dixon	\$50	Rollings Middle School of Arts	V	5	Andyah Garrison	\$25	Burton Pack Elementary	II
8	Alecia Coutain	\$50	Rollings Middle School of Arts	V	6	Paul Czeresko III	\$25	Bush River Connection	II
8	Matt Carrow	\$50	Rollings Middle School of Arts	V	5	Hallie Simmons	\$25	Calhoun Street Elementary	I
6	Betsy Hodge	\$50	Sangaree Middle	I	7	Rodrigo Maceda	\$25	Cambridge Academy	I
5	Michael Birch	\$50	Varnville Elementary	VII	8	JD Green	\$25	Camden Middle School	II
4	Wes Williams	\$50	White Knoll Elementary	II	8	Eric Bunton	\$25	CE Williams Middle	V
8	Brianna Noblin	\$50	Wright Middle	I	5	Kelly McNair	\$25	Centerville Elementary	I
8	Bryan Glace	\$50	Wright Middle	I	5	Ashleigh Dickson	\$25	Centerville Elementary	I
SCHOOL PRIZE WINNERS					SCHOOL PRIZE WINNERS				
5	Trevor Cox	\$25	Dacusville Elementary	I	4	Wesley Pilgrim	\$25	Cherokee Trails Elementary	I
5	Taylor Hawkins	\$25	Dacusville Elementary	I	5	Anna Burk	\$25	Covenant Christain School	II
5	Kristopher Edwards	\$25	Dacusville Elementary	I	6	Sammy White	\$25	Covenant Christain School	II
4	Quenez Robinson	\$25	Forest Heights Elementary	II	6	Rebekah Bowen	\$25	Covenant Christain School	II
4	Ashley Smith	\$25	Forest Heights Elementary	II	7	Emily Eisenstadt	\$25	Crayton Middle	II
4	Kodesia Nelson	\$25	Forest Heights Elementary	II	5	Brooke Tidwell	\$25	Crestview Elementary	I
4	Tamesha Bryant	\$25	Forest Heights Elementary	II	5	Zachary Masters	\$25	Dacusville Elementary	I
5	George Rapley	\$25	Forest Heights Elementary	II	SCHOOL PRIZE WINNERS				
5	Tybresha Domanek	\$25	Forest Heights Elementary	II	5	Emery Thomas	\$25	Richard Carrol Elem Campus B	II
5	Carlos Cunningham	\$25	Greeleyville Elementary	II	6	Dylan Augenstein	\$25	Robert Smalls Middle	VII
5	Chadwick Johnson	\$25	Hunter Kinard Tyler Elementary	II	7	Melissa Rauton	\$25	Rollings Middle School of Arts	V
5	Chadwick Johnson	\$25	Hunter Kinard Tyler Elementary	II	7	Lacy Bigham	\$25	Rollings Middle School of Arts	V
6	Benjamin Kirkland	\$25	Hunter Kinard Tyler Elementary	II	7	Jimmy Bouteny	\$25	Rollings Middle School of Arts	V
6	Casey Douglas	\$25	Hunter Kinard Tyler Elementary	II	7	Laughlin Flanagan	\$25	Rollings Middle School of Arts	V
7	Lauren Shealy	\$25	Irmo Middle School	II	7	Lindsey Wuerfel	\$25	Rollings Middle School of Arts	V
4	Alexandra Deluna	\$25	JK Gourdin Elementary	V	7	Noelle Cunningham	\$25	Rollings Middle School of Arts	V
5	Jayla Cannon	\$25	Joseph P. Keels Elementary	II	7	Chelsea Ford	\$25	Rollings Middle School of Arts	V
5	Benji Milner	\$25	Lakeview Elementary	I	7	Paige Hardy	\$25	Rollings Middle School of Arts	V
5	Jack McAlhany	\$25	Lakeview Elementary	I	7	David Edwards	\$25	Rollings Middle School of Arts	V
5	Jenna Pruet	\$25	Lockett Elementary	II	7	Morgan Jones	\$25	Rollings Middle School of Arts	V
7	Briana Press	\$25	Marrington Middle	V	8	Emily Burns	\$25	Rollings Middle School of Arts	V
4	Kelly Elliott	\$25	McCormick Elementary	IV	8	Lauren Bader	\$25	Rollings Middle School of Arts	V
4	Amanda Harrelson	\$25	McCormick Elementary	IV	8	Catherine Hodieme	\$25	Rollings Middle School of Arts	V
4	Elisha Utley	\$25	McCormick Elementary	IV	8	Katie Rhoden	\$25	Rollings Middle School of Arts	V
4	LaVerne Page Jr.	\$25	McCormick Elementary	IV	8	Jacob Lilley	\$25	Rollings Middle School of Arts	V
4	Ana Maye	\$25	Minnie Hughes Elementary	V	8	Sallie Davis	\$25	Rollings Middle School of Arts	V
4	Gregory Richardson	\$25	Minnie Hughes Elementary	V	8	JoAnna Eason	\$25	Rollings Middle School of Arts	V
4	Beuron Holmes	\$25	Minnie Hughes Elementary	V	?	Ja'Nice Patterson	\$25	Saluda Elementary	I
8	Jalesa Smalls	\$25	Miracle Academy	V	5	Megan Hanna	\$25	Sangaree Intermediate	V
4	Meghana Rao	\$25	Montessori School of Florence	IV	5	Kayla Brown	\$25	Sangaree Intermediate	V
5	Gregory Gischia	\$25	Mossy Oaks Elementary	VII	5	Allie Goddis	\$25	Satchel Ford Elementary	II
?	Christopher Rikabi	\$25	Newberry Middle	II	5	Ethan Ginn	\$25	Varnville Elementary	VII
5	Kenyal Gilbert	\$25	Palmetto Elementary	IV	5	Braylyn Salmond	\$25	Varnville Elementary	VII
4	Khaneisha Gibbs	\$25	Pomaria Garmany Elementary	II	5	Kelyne Hiers	\$25	Varnville Elementary	VII
4	Katie Bryant	\$25	Port Royal Elementary	VII	8	Mark-Anthony Holden	\$25	Williamsburg Academy	V
7	Monisha Bowens	\$25	R D Schroder Middle	V	8	Livell Paul	\$25	Wright Middle	I

The Academy would like to recognize this year's student graders for the SCAS MESAS mail-in Contest. They are: Zoe Coombs – 77 hours; Christine Chakides – 35 hours; Emily Hallmark – 33 hours; and Kelly Harvey – 15 hours. Special recognition goes to captain Zoe Coombs.

2005 Stock Division Soapbox Derby

John David Black, a school winner in the SC Academy of Science Mail-In Contest, will represent the South Carolina Academy of Science in the 2005 Stock Division Soapbox Derby in Columbia, SC on June 4th. He is a 10 year-old fourth grade ALERT student at Killian Elementary School in Richland District II. He has been identified by the Duke University Talent Identification Program.

John was a recent participant in the 2005 MESAS Mail-in Contest. He Placed 2nd (elementary school chemistry division) at the SCJAS annual meeting at Winthrop University for his oral presentation: "Nuclear Energy: Past, Present & Future". He received the "Champion of the Environment" mini-grant from DHEC in April 2005. His "Ho! Ho! Ho! Green Giant Project" was funded \$500.00 dollars to plant shade trees and flower boxes at his school.

John David is a Concertino student with the USC Strings Project. He enjoys playing the violin, recorder, guitar, ukulele, and the piano. He likes writing his own songs.

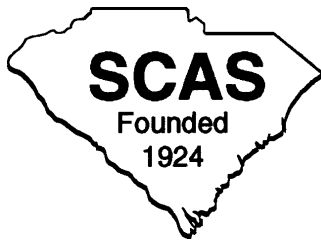
John David volunteers at the Richland County Public Library and has been published in their Kids in Print 2003 issue. He is a WEBELOS II Cub Scout with PACK 733 of the Indian Waters Council. He attends the AWANA club at Killian Baptist Church. He is a Junior Master Gardener and a member of the SC Reel Kids Fishing Club. John David has performed in the Chamber Theater for Youth-The Lion, the Witch, and the Wardrobe (2004) and the Workshop Theater Acting Class (2002).

He was a member of the 2005 Lego CyberHawks Robotic Team. His team placed 10th in the state-wide competition. His hobbies include building with Legos, making wood crafts, inventing things, and reading and writing. Way to Go John David!

Summary of Papers for the Annual Meeting:

Benedict College	01	Presbyterian College	01
The Citadel	01	South Carolina State University	07
Claffin University	01	Southern Wesleyan University	01
Clemson University	07	St. John's University	02
College of Charleston	26	University of South Carolina Aiken	11
Francis Marion University	11	University of South Carolina Columbia	20
Greenville Hospital Systems	04	University of South Carolina School of Medicine	
Lander University	01	01	
Max Mile Technologies	01	University of South Carolina Sumter	01
Medical University of South Carolina	01	University of South Carolina Upstate	02
Morris College	03	Winthrop University	19
Newberry College	01	Wofford College	03

Total # of Papers: 126



South Carolina Academy of Science Officers

Secretary
Jane Ellis
Presbyterian College
Department of Biology
Clinton, SC 29325
864 833-8416/FAX 864 833-8993
jellis@presby.edu

Treasurer
John L. Safko / USC-Columbia
Department of Physics & Astronomy
Columbia, SC 29208
803 777-6466/FAX 803 777-3065
safko@sc.edu

Executive Director, SCJAS
Karen Fox
USC Medical School
Department of Pathology and
Microbiology
Columbia, SC 29208
803 733-3275/FAX 803 733-3192
kfox@med.sc.edu

AAAS, NAAS & MESAS Director
Don Jordan / USC-Columbia
Center for Science Ed.; COSM
Columbia, SC 29208
803 777-7007/FAX 803 777-4396
jordan@gwm.sc.edu

Bulletin/Journal Editor
David Ferris / USC Upstate
Division of Natural Science and
Engineering
Spartanburg, SC 29303
864 503-5725
dkferris@uscupstate.edu

Newsletter Editor
Mike Farmer
Governor's School
15 University St.
Greenville, SC 29601
864 282-3732/FAX 864 282-3717
farmermh@aol.com

Councilors:
Dr. Radman M. Ali, Chair, Morris
College
Dr. John Baynes, USC Columbia
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Tom Roop, Francis Marion Univ.
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MESAS Directors:
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Rosemary Wicker, Lowcountry MESAS
Tom Roop, Sandhills MESAS
Rosemary Wicker, Western MESAS

Executive Assistance To The Council:
Anthony Kurlycheck/ USC Columbia
College of Arts and Sciences
Science Education Center/Sumwalt Rm.
321
Columbia, SC 29208
803 777-8759/FAX 803 777-4396

President
James Privett
USC Sumter
200 Miller Road
Sumter, SC 29150-2498
803 938-3458/FAX 803 938-3713
jamesp@uscsumter.edu

Immediate Past President
David J. Stroup
Francis Marion University
Department of Biology
Florence, SC 29501-0547
843 661-1407/FAX 843 661-1696
dstroup@fmarion.edu

Vice President
Thomas Reeves
Midlands Technical College
Department of Biology
Columbia, SC 29202
803 822-3554
reevest@midlandstech.edu

Past President
N. Dwight Camper,
Clemson University
Entomology, Soils & Plant
Sciences
Clemson, SC 29634-0377
864 656-5743/FAX 864 656-0274
dcamper@clemson.edu

President Elect
Hans-Conrad zur Loye
GSRC 531 USC
Columbia, SC 29208
803 777-6916/FAX 803 777-8508
zurloye@sc.edu



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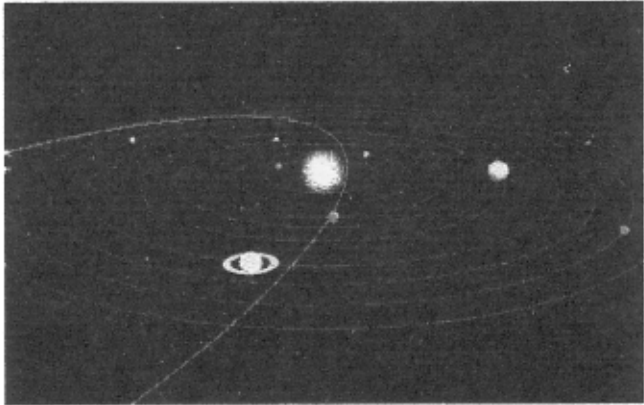


Purposes

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