



2011 ACADEMY COMMITTEES

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Radman Ali, Morris College
Chasta Parker, Winthrop
Brianna Timmerman, USC Honors College
Justin Wyatt, College of Charleston
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Brianna Timmerman, USC Honors College

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South Carolina Academy of Science

SERVING SCIENCE EDUCATION IN OUR STATE SINCE 1924

South Carolina Junior Academy of Science

Spring
2011



2011 SCAS/ SCJAS Calendar

FEBRUARY 21, 2011
DEADLINE FOR SUBMISSION OF ANNUAL MEETING ABSTRACTS
(SEE OUR WEBSITE WWW.SCACADSCIENCE.ORG)

MARCH 15, 2011
DEADLINE FOR ANNUAL MEETING EARLY REGISTRATION
(SEE OUR WEBSITE WWW.SCACADSCIENCE.ORG)

APRIL 15, 2011
SCAS COUNCIL MEETING
SC STATE UNIVERSITY

APRIL 16, 2011
SCAS/SCJAS ANNUAL MEETING
SC STATE UNIVERSITY

JUNE 2011
GIRLS IN SCIENCE! PROGRAM
SC STATE MUSEUM

APRIL 2012
SCAS/SCJAS ANNUAL MEETING
USC - AIKEN

SC State University to Host the SCAS/SCJAS Annual Meetings - April 16, 2011

The SCAS and SCJAS 2011 Annual Meeting will be held at SC State University on April 16, 2011. Dr. Judith Salley, SCAS President-Elect is coordinating the senior academy meeting and says, "SC State is looking forward to hosting this year's meeting and we anticipate a great turnout. We are building on the success of the 2010 meeting at the College of Charleston and adding a few touches of our own." Last year's meeting at the College of Charleston attracted more than three hundred scientists, science teachers, graduate, and undergraduate students.

"More than \$2,000 will be awarded to undergraduate students competing in poster and oral presentations at this year's meeting," says Dr. Bill Pirkle of USC-Aiken, coordinator of undergraduate awards. "We anticipate that there will be more than two hundred research and poster presentations offered during the day". Topical sessions that will be represented include chemistry, biochemistry, field biology, oceanography, environmental science, microbiology, molecular biology, neuroscience, psychology, cell biology, nanoscience, math, computer science, science education, and astronomy.

According to Dr. Justin Wyatt of the College of Charleston, SCAS president "We will also be presenting the prestigious Governor's Awards for research and science awareness". These awards recognize the top science researchers and science teachers in the state.

There will also be a workshop for science teachers offered in conjunction with the meeting. The theme for the workshop will be *Starting a Science Research Program in Your High School*. Dr. Tom Reeves of Midlands Technical College and USC who is developing and coordinating the workshop says, "in this session we will cover what constitutes an effective student research project, developing research ideas with students, recruiting research mentors, and using community resources to improve research. Teachers who participate will also actually observe and evaluate student research being presented at the meeting and will even participate as judges of the poster competition." Participating teachers can receive continuing education credit.

The SCJAS also will hold its annual meeting on the same day. "We expect more than two hundred research presentations from students grades 9-12 from across South Carolina," Says Mrs. Tammy Taylor, SCJAS Program Director. "We will be awarding more than \$8,000 to the outstanding student researchers in both oral and written competitions." In addition, special awards will be presented by the American Association of Biochemistry and Molecular Biology, the Southern Atlantic Coast Section of the American Association of Physics Teachers, Winthrop University Behavioral Science Award, the SC Section of the American Chemical Society, the SC Council Teachers of Mathematics Award, and several new engineering awards sponsored by ED&T.

For more information pertaining to registration, membership, and submission of papers and abstracts please visit our website at www.scacadscience.org. Additional information can be obtained by contacting Dr. Tom Reeves (SCAS Registration, membership and teachers' workshop) office: 803-822-3554 reevest@midlandstech.edu; Mrs. Tammy Taylor (SCJAS registration and membership, office: 803-822-3356, taylor@midlandstech.edu), Dr. Bill Pirkle (SCAS undergraduate awards) billp@usca.edu, or Dr. Judith Salley (SCAS Annual Meeting details) djsalley@scsu.edu. Put April 16th, 2011 on your calendar now and make plans to attend the SCAS/SCJAS Annual meeting!



Dr. Darren Ritzer of Winthrop University gives keynote address at the SCJAS Fall Workshop

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SCAS Membership Information

Student	\$35.00
High School Faculty	\$25.00
Regular	\$45.00
Joint Membership	\$52.00

Contact: Dr. Tom Reeves
(803) 822-3554
reevest@midlandstech.edu
www.scacadscience.org

SCJAS Membership Information

Individual membership	\$ 8.00
Club Membership	\$20.00*

*Plus each individual member must pay \$ 8.00.

Contact: Dr. Edna Steele
SCJAS Treasurer
Department of Biology
Converse College
580 East Main Street
Spartanburg, SC 29302-0006
www.edna.steele@converse.edu



SCJAS members participate in the psychology bowl at Winthrop University

Among the outstanding breakout sessions was *Sexting: Who is doing it and why?* presented by Dr. Tracy Griggs and Ms. Cecile Gadson. Other sessions that were enthusiastically received by participants included, *Getting it on: The psychology of love and relationships* (Dr. Matt Hayes and Dr. Cheryl Fortner-Wood), *"11 people murdered....live at 5: Criminology through the media's lens"* (Dr. Bradley Tripp), *Personality tests: What can they tell you about you?* (Meagan Burns, Adrienne Galassie, and Erin Sim), *The sociology of Facebook: Underlying rules for social interaction* (Dr. Jeannie Weil), and *An exploration of positive psychology* (Dr. Donna Nelson).

A delicious buffet lunch was provided by the Winthrop dining service. Workshop participants then had the opportunity to tour the Winthrop campus. SCJAS Program Director Mrs. Tammy Taylor, who worked with Dr. Sleight on the workshop agenda, said, "This is one of the best workshops that we have ever had. Our students were extremely impressed with the programs and facilities offered at Winthrop University". Following last year's workshops at Coastal Carolina University and the SC State Museum, the SCJAS continues to offer strong programs that enrich and encourage science education and research for students throughout South Carolina."

The popular SCJAS Challenge Bowl was also held and allowed students to test their knowledge of biology, chemistry, physics, and math. Dr. Roger Schmidt of Columbia College coordinated the event, as he has done for the past 25 years!

The SCJAS would like to express a sincere thank you to Winthrop University and all of the Winthrop teachers and students who contributed their time and expertise to make this a wonderful workshop experience!

If you would like to have your students participate in SCJAS activities, please contact:

Tammy Taylor - Midlands Technical College
PO Box 2408 - Columbia, SC 29202 - Office# : 803-822-3356
taylort@midlandstech.edu

Winthrop University Hosts SCJAS Fall Workshop

The South Carolina Junior Academy of Science (SCJAS) held its Fall 2010 Workshop at Winthrop University on October 23, 2010. Organized by Dr. Merry Sleight, a Winthrop psychology professor and SCAS council member, the theme of the workshop was *Using Science to Understand Human Behavior*.

The keynote speaker for the workshop was Dr. Darren Ritzer whose presentation *Mythbusters: Psychology Style* enthralled and involved the entire audience as he debunked popular but incorrect ideas through psychological research.

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Lexington High School and Academic Magnet School Take First Place in SCJAS Challenge Bowl

By Ben Bartlett

This year's South Carolina Junior Academy of Science Challenge Bowl was held on the lovely campus of Winthrop University in Rock Hill, SC on October 23, 2010. Teams from across the state participated in the competition that tests students' knowledge of biology, chemistry, physics and math. Dr. Roger Schmidt of Columbia College proctored the rounds and Mrs. Tammy Taylor of Midlands Technical College served as time keeper and recorder. Lexington High School placed first in the junior division (9th and 10th grades) and the Academic Magnet School placed first in the senior division (11th and 12th grades). Individual team members are listed below:

Junior Division

1st Place: Lexington High School
Ben Bartlett
Carsten Bryant
Allan Zhao

2nd Place: Heathwood Hall
Daniel Settana
Mackenzie Sumwalt
Grace Smith

3rd Place: Academic Magnet
Irene Chang
Jesslyn Park
Sophia Yin

Senior Division

1st Place: Academic Magnet
David Zhang
William Zhang

2nd Place: Heathwood Hall
Connor Hoffman
Freddie Powers
Rob Smith



Dr. Roger Schmidt coordinates SCJAS Challenge Bowl with winning team from Lexington High School

In Memoriam: Mrs. Betty Reagan

Mrs. Betty Reagan, long-time South Carolina science teacher, SCJAS sponsor and educational leader, passed away on Saturday, December 18, 2010 at age 84 in Hendersonville, NC. Dr. Wyatt McDaniel sent us the following narrative that we feel will serve as a very fitting eulogy for our departed colleague:

Betty was a stanchion of the scientific world. She taught chemistry for years at J.L. Mann High School in Greenville, SC. Respected by her students, she was the mentor for other science teachers in SC and around the country. Many, like I, came to the classroom from college, full of knowledge and ready to spread it. It took Betty Regan to show us what it meant to be a TEACHER. She was the example of what had to be done, and blazed the path others eagerly followed. Always abreast of the latest developments, Betty was awarded every distinction afforded to teachers, from local teacher of the year to recognition by the President of the United States for Excellence in Science Teaching. An original founder of the South Carolina Science Council, Betty declared it an imperative for teachers to have a forum to share innovative ideas for the classroom. The organization has grown to be one of the most recognized such chapters of the National Science Teacher's Association. Personally, I was one of her helpers in this effort. Her goals were so high and her vision so far reaching that I would sometimes just say, "Betty, I don't know how we are going to get this done." Her reply: "Just DO IT!"---Betty's exclamation of the early 70's, long before it ever appeared on a T-shirt.

Loving wife and mother, revered teacher, mover, shaker, up-lifter of people, Betty Reagan enhanced every life she touched. Her spirit lives in those lives long past her own.

SCJAS Officers & Council 2011 - 2012

President	David Zhang	Academic Magnet High School
President	Arjun Aggarwal	Lexington High School
Vice- President	William Zhang	Academic Magnet High School
Vice- President	Leigh Yarborough	Heathwood Hall
Treasurer	Ben Bartlett	Lexington High School
Secretary	Mackenzie Sumwalt	Heathwood Hall
Council	Christina Miller	Heathwood Hall
Council	Connor Hoffman	Heathwood Hall
Council	Grace Smith	Heathwood Hall
Council	Jad Sheehi	Dreher High School
Council	Noah Trump	Dreher High School
Council	Samuel Trump	Dreher High School
Council	Samantha Brown	Dutch Fork High School
Council	Ashley Porchea	Hemingway High School
Council	Devona Holmes	Hemingway High School
Council	Emanuel Pressley	Hemingway High School



SCJAS Officers 2011-2012: (from left) Ben Bartlett (Treasurer), William Zhang (VP), David Zhang (co-President), Arjun Aggarwal (co-President), Mackenzie Sumwalt (Secretary), Leigh Yarborough (VP, not pictures), Mrs. Tammy Taylor, SCJAS Program Director



Dr. Merry Sleight (left), SCAS Council members Vernon and Keri Beaty and students at SCJAS Fall Workshop

State of the SCJAS Address

By David Zhang, SCJAS Co-President, Academic Magnet High School

Hello everyone! We are glad to serve as members of the Student Board for the South Carolina Junior Academy of Science. David Zhang is the Co-President, and William Zhang is the Co-Vice President. We have been a part of SCJAS for four years now, and we are extremely happy that so many students are involved with the organization. It is certainly a great time to be engaged in science in our state. The South Carolina Junior Academy of Science welcomes back all of its returning members and encourages any new members to join.

On October 23rd, 2010, SCJAS held a fantastic Fall Workshop at Winthrop University. The theme of this workshop was psychology, as we had a great professor bust some common myths on psychology. At the workshop, there was also an exciting Psychology Bowl that everyone, even teachers, participated in. All of the schools had a fun time answering the questions in this bowl.

Our next event will be the Annual Meeting at South Carolina State University on Saturday, April 16, 2011. SCJAS will be combining the Winter Workshop with the Annual Meeting this year. At the Annual Meeting, breakout sessions will be offered in a similar manner that took place at the Fall Workshop. The Annual Meeting is also a great place for students to present their own research. This meeting represents the culmination of a year or more of research for many students. They are even able to compete to win cash prizes for their oral and paper reports! There will be many different categories for students to enter their research into. We look forward to all of you participating and showing off the hard work you've done all year! We hope that everyone enjoyed the Fall Workshop and that everyone will attend this year's Annual Meeting.

As this is our senior year of high school, we are grateful for everything that SCJAS has done for us. We urge all of you to take the opportunity to fully use SCJAS to your advantage. As you continue in your high school science careers and beyond, we wish you the best of luck in all of your endeavors.

Warmest regards,
David Zhang, Co-President / William Zhang, Co-Vice President