

SCJAS

South Carolina Junior Academy of Science

Volume XXXVIII, Issue 3

Spring 2007

South Carolina Junior Academy of Science Annual Meeting Special Awards

Special points of interest:

- Awards Edition!

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South Carolina Sponsor of the Year

Karen Hildebran, Walhalla High School

USC School of Medicine Award

1st Place Cellular & Molecular Biology: Erin Martin
2nd Place Cellular & Molecular Biology: Sarah Tryon
1st Place Physiology & Health: Rui Jiang
2nd Place Physiology & Health: Carolyn Fisher

American Association of Physics Teachers

Physics-Mentored: Sherwin Soltani

American Chemical Society, South Carolina Chapter

Chemistry: Valentin Lazar

South Carolina Teachers of Mathematics

Math: Matt Shrader
Math: Arjun Aggarwall

South Carolina Governor's School Mentor Award

Physiology & Health-Mentored: Rui Jiang
Physiology & Social Science: Sudeep Sunthakar

Greater Piedmont Area Chapter of the Explorers Club

Environmental Science-Mentored: Yupeng Liu
Environmental Science-Non Mentored: Graham Van Schaik

American Association for the Advancement of Science Annual Meeting Trip Award

Botany-Mentored: Michelle Metzler
Zoology-Mentored: Evan Eskew

Students from South Carolina representing SC at the International Science & Engineering Fair (ISEF) May 2007 at Albuquerque

Low Country Science Fair Director – Starr Jordan, College of Charleston

Finalist-Individual

Yupeng Liu - Charleston Academic Magnet School

Alexander Romanczuk - Charleston Academic Magnet School

Anderson-Oconee Pickens Regional Science Fair Director – Angela Foxx, Clemson University

Finalist-Individual

Tara Batson – Pickens High School

USC Central SC Region II Science & Engineering Fair Director – Dr. Don Jordan, USC

Finalist-Individual

Graham Van Schaik – Spring Valley High School

Shivani Argarwal – Spring Valley High School

Finalist-Team

Kaitlyn Rainwater, Ariel Guinn – Dreher High School

Observers

Ryan Moran – Spring Valley High School

Lauren Nixon – Spring Valley High School

Sand Hills Regional Science Fair Director – Richard West, Francis Marion University

Finalist-Individual

Bonnie L White, Mayo High School for Mathematics, Science & Technology

Upstate Regional Science Fair Director – Lyle Campbell, USC Upstate

Finalist-Individual

Michael Green – South Carolina Association of Independent Home Schools

Finalist – Team

Jason Morris, Jay Gill - Paul M. Dorman High School

Greenville Co. Regional Science & Engineering Fair Director - Mr. Greg Cornwell, Roper Mt.

Finalist-Individual

Ethan Josiah Walker – Creekview Learning Center

Xue Chi – Southside High School

Observer

Campbell Armstrong Yore – Southside High School

Sea Island Regional Science Fair – Jr. Division – Director Tina Webb-Browning, Hilton Head Prep

Finalist-Individual

Katie Stine - Hilton Head Preparatory School

Jordy Harris - Hilton Head Preparatory School

Finalist-Team

James Tyler Dunn, John Patrick Courtney – Hilton Head High School

Observers

Nathaniel Weeks Rollings – Beaufort Academy

TJ Melanson – Hilton Head Middle School

Sea Island Regional Science Fair – Sr. Division Director Tina Webb-Browning, Hilton Head Prep

Finalist-Individual

Graham Gintz - Hilton Head Preparatory School

Mac DeRose - Hilton Head Preparatory School

Finalist-Team

Chelsey Webb, Alex Smith, Ryan Clark - Hilton Head Preparatory School

2007 MESAS MAIL-IN CONTEST SETS YET ANOTHER RECORD NUMBER OF ENTRIES: 806

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 806 entries, with 691 students from grades 4-6 and 115 students from grades 6-8. This year, the contests proved to be especially challenging and covered a broad range of topics with an emphasis on Chemistry and Engineering.

We are grateful to the University of South Carolina for the creation of this year's contest. The authors of the 2007 contest are faculty and staff from the University of South Carolina - Columbia: Dr. Robert Feller – Dept. of Biology, Dr. Hans-Conrad zur Loye – Dept. of Chemistry, Dr. Donald Griffith – Dept. of Engineering, Ms. Dana Hutto – Center for Science Education and Director of SC², and Dr. Don Jordan – Center for Science Education and MESAS Director.

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 14 students from **SIX** regions who submitted the best overall papers.

Region IB: Megan Lollis of Cherokee Trail Elementary & John Isenhower of Cambridge Academy

Region II: Elijah Goodson of Oak Grove Elementary, Alison Waldman of Harbison West Elementary, Keri Register of Westin Academy & Afia Khan of EL Wright School

Region III: Joe Ringel of West View Elementary

Region V: Carl Merting of Gregg Middle School, Sarah Graham of JSJ Academy, Charlie Lewis, Emily Bacher & Amy Chang of Rollings Middle School

Region VI: Adriana Loza of Hampton Elementary

Region VII: TJ Melanson of Hilton Head Middle School.

The above students 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 206 winners out of 806 participants (approx 26% 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.

**See Pages 4-5 for a list of the winners,
their prize, as well as their sponsor and
school information:**

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Grade	Winner	\$ Amt	SCHOOL	Reg	Grade	Winner	\$ Amt	SCHOOL	Reg
GRAND PRIZE WINNERS					REGIONAL PRIZE WINNERS				
7	John Isenhower	\$100	Cambridge Academy	IB	6	Melissa Groleau	\$50	Hand Middle School	II
6	Megan Lollis	\$100	Cherokee Trail Elem. School	IB	6	Tommy Vater	\$50	Hilton Head Middle School	VII
7	Afia Khan	\$100	EL Wright School	II	7	Curtis Beck	\$50	Hilton Head Middle School	VII
6	Carl Merting	\$100	Gregg Middle School	V	8	Paul Czeresko	\$50	Homeschool	II
4	Adriana Loza	\$100	Hampton Elementary School	VI	4	Jack Willis	\$50	Keowee Elementary School	I
5	Alison Waldman	\$100	Harbison West Elem. School	II	4	Sarah Dover	\$50	Keowee Elementary School	I
6	TJ Melanson	\$100	Hilton Head Middle School	VII	5	Cole Stroup	\$50	Limestone Central Elem. School	III
6	Sarah Graham	\$100	JSJ Academy	V	6	James Tavelle	\$50	Macedonia Middle School	V
4	Elijah Goodson	\$100	Oak Grove Elementary School	II	5	Pierce Matthews	\$50	Matthews Academy	III
7	Charlie Lewis	\$100	Rollings Middle School	V	4	Maya Rush	\$50	McCormick Elementary School	IV
7	Amy Chang	\$100	Rollings Middle School	V	6	Blake Warren	\$50	Mid-Carolina Middle School	II
8	Emily Bacher	\$100	Rollings Middle School	V	7	Drew Ricard	\$50	Mid-Carolina Middle School	II
	Joe Ringel	\$100	West View Elementary School	III	4	Samuel Jones	\$50	Montessori School of St. Andrews	II
7	Keri Register	\$100	Westin Academy	II	6	Paul Lee	\$50	Moore Intermediate School	IV
					4	Charles Mealer	\$50	North Augusta Elementary School	VI
Grade	Winner	\$ Amt	SCHOOL	Reg	Grade	Winner	\$ Amt	SCHOOL	Reg
STATE PRIZE WINNERS					6	Colby Martin	\$50	Palmetto Academy	V
5	Ariel Jackson	\$75	Ashley River Creative Arts	V	7	Arjun Aggarwal	\$50	Pleasant Hill Middle School	II
8	Cole Mickey	\$75	Bates Middle School	II	5	Morgan Werts	\$50	Pomaria-Garmany Elem. School	II
4	Caroline Dunn	\$75	Centerville Elementary School	IA	4	Hannah Brunson	\$50	Richard Carroll Elementary School	II
8	Bushra Rahman	\$75	Crescent Academy	II	4	Logan Robinson	\$50	Richard Winn Academy	II
6	Abigail Tolar	\$75	Dent Middle School	II	8	Eric Kao	\$50	Riverside Middle School	III
6	Grace Westbury	\$75	Dorchester Academy	V	7	Joseph Redzikowski	\$50	Rollings Middle School	V
5	Alyssa Broeker	\$75	Edisto Elementary School	II	6	Lawson Gorman	\$50	SC School for the Blind	III
7	Lillie Jackson	\$75	J E T Middle School	VI	6	Taylor Ruth	\$50	SC School for the Blind	III
5	Paul Pepper	\$75	Keowee Elementary School	I	4	Miranda Blystone	\$50	Sedgefield Intermediate School	V
4	William Ford Tolar	\$75	LB Nelson Elementary School	II	6	Thomas Jones	\$50	Seton Homeschool	II
8	Lauren Masters	\$75	Masters Academy	V	6	Gabrielle York	\$50	St. Andrews Middle School	II
6	Andrew Wicker	\$75	Mid-Carolina Middle School	II		Matthew Armstrong	\$50	West View Elementary School	III
7	Elizabeth Nichols	\$75	Mid-Carolina Middle School	II		Connor Bastin	\$50	West View Elementary School	III
5	Paul Glenn	\$75	RCES Campus B	VI	4	Luke Fort	\$50	White Knoll Elementary School	II
5	Alia Faith Aaron	\$75	Saluda Elementary School	VI	6	Logan McFall	\$50	Wren Middle School	I
					6	Jeremy Fowler	\$50	Wren Middle School	I
					6	Jeremy Wu	\$50	Wu Family Homeschool	II
6	Adam Lipsitz	\$50	Beaufort Middle School	VII		Asrar Alimohamed	\$50	Westview Elementary School	III
7	Drew Wolfe	\$50	Cambridge Academy	IB					
6	Chandler Thompson	\$50	Cherokee Trail Elem. School	IB					
6	Gracin Watson	\$50	Chesnee Middle School	III	5	Darla Wendlandt	\$25	Beech Hill Elementary School	V
5	Brian Lentz	\$50	Coosa Elementary School	VII	5	Taylor Carter	\$25	Beech Hill Elementary School	V
5	Dillon Porter	\$50	Faith Baptist School	I	7	Elizabeth Ecklar	\$25	Branchville High School	V
6	Dallas Porter	\$50	Faith Baptist School	I	4	Sydney Ellen	\$25	Brennen Elementary School	II
4	David DeLoach	\$50	Hampton Elementary School	VI	4	Aon Ali	\$25	Cambridge Academy	IB
4	Cindy Weekley	\$50	Hampton Elementary School	VI	8	Arielle Barraca	\$25	Cambridge Academy	IB
6	Hannah Quackenbush	\$50	Hand Middle School	II	8	Amanda Perez	\$25	Cambridge Academy	IB
REGIONAL PRIZE WINNERS					SCHOOL PRIZE WINNERS				

Congratulations to all winners and everyone who participated!

Grade	Winner	\$ Amt	SCHOOL	Reg	Grade	Winner	\$ Amt	SCHOOL	Reg
			SCHOOL PRIZE WINNERS					SCHOOL PRIZE WINNERS	
8	Teddi Steadman	\$25	Cambridge Academy	IB	5	Augustine Carter	\$25	Lake Murray Elementary School	II
6	Jami Bunton	\$25	CE Williams Middle School	V	5	Sarah Brice	\$25	LB Nelson Elementary School	II
4	Cailyn Lee	\$25	Centerville Elementary School	IA	5	Savannah Ballard	\$25	LB Nelson Elementary School	II
5	Tiana Timmons	\$25	Chavis Elementary School	IV		Ariel Ruff	\$25	LIFE Academy	V
6	Kelsey Washington	\$25	Chavis Elementary School	IV	5	Daria Light	\$25	Light Academy	V
7	Timothy Engler	\$25	Cherokee Trail Elem. School	IB	6	Breanna Ardis	\$25	Lockett Elementary School	VI
7	Sara Jane Bush	\$25	Cherokee Trail Elem. School	IB	5	Brandon Young	\$25	McCormick Elementary School	IV
5	Matthew Leech	\$25	College Park Elem. School	V	5	Richard Galloway	\$25	North Hartsville Elemenatry School	IV
5	Najia Williams	\$25	Conder Elementary School	II	5	Kerrigan Galloway	\$25	Pickens Elementary School	I
5	Angelette Weaver	\$25	Conder Elementary School	II	5	Cami McMinn	\$25	Pickens Elementary School	I
5	Colette Kemmann	\$25	Coosa Elementary School	VII	6	Nicholas Reinovsky	\$25	Pickens Middle School	IA
5	Hunter Pylant	\$25	Coosa Elementary School	VII	5	Jacob Thornton	\$25	Pine Crest Elementary School	IB
5	Simran Mathews	\$25	Covenant Christian School	II	5	Ryo Yoshimura	\$25	Pine Crest Elementary School	IB
4	Caleb Kisby	\$25	Crestview Elementary School	III	5	Wil Gilland	\$25	RCES Campus B	VI
6	Andrew Shealy	\$25	Crossroads Middle School	II	5	Sarah Coleman	\$25	Richard Winn Academy	II
5	Alex Thomas	\$25	Dacusville Elementary School	I	6	Ashani Ranwala	\$25	Rollings Middle School	V
8	Trey Dendrinis	\$25	Dendrinis Homeschool	II	7	Micah Workman	\$25	Rollings Middle School	V
6	Quenton Stokes-Brown	\$25	Dent Middle School	II	7	Jessica Ford	\$25	Rollings Middle School	V
4	Taylor Proctor	\$25	Edisto Elementary School	II	8	Chris Armock	\$25	Rollings Middle School	V
5	Hannah Fogle	\$25	Edisto Elementary School	II	4	Regan Sadler	\$25	Round Top Elementary School	II
8	Sona Tailor	\$25	EL Wright School	II	5	Palmer Reynolds	\$25	Round Top Elementary School	II
	Devonte Davis	\$25	EL Wright School	II	5	Jed Gist	\$25	Round Top Elementary School	II
6	Robert Harden	\$25	Eloree Elem./Middle School	II	5	Kelly Brown	\$25	Ruby Elementary School	IV
6	Zoel Stackhouse	\$25	Felton Laboratory School	II	5	Matthew Lewis	\$25	Sacred Heart Catholic School	II
	Katie Laken Weeks	\$25	Fork Shaols Elementary School	IB	7	Christopher Lewis	\$25	Sacred Heart Catholic School	II
5	Brandon Ricard	\$25	Gilbert Elementary School	II	4	Kade Rodgers	\$25	Saluda Elementary School	VI
8	Raven Woodruff	\$25	Gray Court-Owings	IB	5	Emily Salonich	\$25	Saluda River Academy	II
6	Mark Deshner	\$25	Gregg Middle School	V	5	Jordan Janikowski	\$25	Sangaree Intermediate School	V
6	A J Saracina	\$25	Gregg Middle School	V	7	Rachel Grosick	\$25	Sneed Middle School	IV
5	Jessica Gravely	\$25	Hagood Elementary School	IA	6	Shaquela Boyd	\$25	St. Andrews Middle School	II
4	Morgan Wood	\$25	Hampton Elementary School	VI	8	LaVesha Parker	\$25	Summit Parkway	II
4	Adam Blocker	\$25	Hampton Elementary School	VI	6	Ashley Hogan	\$25	Trinity Homeschool Academy	V
4	Austin Terry	\$25	Hampton Elementary School	VI	6	Sarah Pirkel	\$25	Trinity Homeschool Academy	V
4	Julian Rhodes	\$25	Hampton Elementary School	VI	4	Shivani Kapur	\$25	White Knoll Elementary School	II
4	Justin Terry	\$25	Hampton Elementary School	VI	7	Monique Ginyard	Cert.	AL Corbett Middle School	VI
4	Jamie Padgett	\$25	Hampton Elementary School	VI		E'Quasha K	Cert.	AL Corbett Middle School	VI
4	Robert Mills	\$25	Hampton Elementary School	VI	7	Ebony Coleman	Cert.	Alcorn Middle School	II
4	Jesse Hadwin	\$25	Hampton Elementary School	VI	3	Anna-Marie Schnese	Cert.	Camden Elemenatry School	II
5	Rebecca Cook	\$25	Hampton Elementary School	VI	5	Elizabeth Stauder	Cert.	Clemson Elementary School	IA
5	Brett Terry	\$25	Hampton Elementary School	VI	6	Madeline Stone	Cert.	Crayton Middle School	II
5	Rogan Gibson	\$25	Hampton Elementary School	VI	6	Jeremiah Prince	Cert.	Crossroads Middle School	II
5	Cassie Kemmerlin	\$25	Hampton Elementary School	VI	5	Noah Porter	Cert.	Dacusville Elementary School	I
5	Indie Smith	\$25	Hampton Elementary School	VI	4	Dalton Truesdale	Cert.	Fairfield Intermediate School	II
5	Brenden Moore	\$25	Hampton Elementary School	VI	5	Ja'Brea Woodard	Cert.	Fairfield Intermediate School	II
5	Caitlin Ball	\$25	Hampton Elementary School	VI	5	Marlene Ramirez	Cert.	Fairfield Intermediate School	II
5	Michaela Conder	\$25	Hampton Elementary School	VI	6	Chelsie Kelly	Cert.	Fairfield Intermediate School	II
6	Barylyn Salmond	\$25	Hampton Elementary School	VI	6	Mark Carroll	Cert.	Fairfield Intermediate School	II
6	Mieala Wachowski	\$25	Hampton Elementary School	VI	6	Ashby Holmes	Cert.	Greeleyville Elementary School	I
6	Jeremy Luten	\$25	Hampton Elementary School	VI	7	Tomasha McIntyre	Cert.	Greer Middle School	III
6	Breanna Murdaugh	\$25	Hampton Elementary School	VI	4	Dante Joynor	Cert.	Hampton Elementary School	VI
6	Wyatt Peeples	\$25	Hampton Elementary School	VI	5	Savannah Rodgers	Cert.	Long Cane Elementary School	IB
6	Polina Aleshina	\$25	Hand Middle School	II	6	Deandra Benson	Cert.	Midlands Math & Business Acad.y	II
5	Tyler Farrell	\$25	Harbison West Elem. School	II		Ariel Weeks	Cert.	Midlands Math & Business Acad.	II
6	Maddie Norris	\$25	Heathwood Hall	II	6	Kymberly Wilson	Cert.	Newberry Middle School	II
4	Hannah Wickland	\$25	Hilton Hd. Sch.I for the Creative Arts	VII	6	Kathleen Fahey	Cert.	Pickens Middle School	IA
4	Lauren Yam	\$25	Holly Creek School	II	8	Torrey Wilson	Cert.	SC School for the Blind	III
5	Valerie Riddle	\$25	Holly Springs Elem. School	I	7	Denzel Hampton	Cert.	Scotts Branch Intermediate School	
5	Lydia Clarke	\$25	Honea Path Middle School	IA	8	Jonathan Lovoir	Cert.	West View Middle School	V
8	Jessica Kohl	\$25	Kohl Discovery School	V	8	Lauren Simons	Cert.	WG Sanders Middle School	II

South Carolina Junior Academy of Science Annual Meeting Results 2007

Oral Presentation Results

Biochemistry

- 1st Alexandra Hooks
- 2nd Jonathan Hill
- 3rd Rohit Sreedharan
- 4th Kristen Morin

Botany Mentored

- 1st Michelle Metzler
- 2nd Lauren Chandler

Botany Non-Mentored

- 1st Paul Avinger
- 2nd Frances Ellerbee
- 3rd William Mitchell

Chemistry

- 1st Valentin Lazar
- 2nd Christine Giap
- 3rd Jason T. Jakiela

Cellular & Molecular

- 1st Brittany Hall
- 2nd Katelyn Barzee
- 3rd James Lee
- 4th Cara Schendzelos
- 5th Caitlin Basnight

Consumer Affairs

- 1st Erin McPherson
- 2nd Whitney Barr
- 3rd Justin Murphy
- 4th Serena Dib

Engineering Mentored

- 1st Ian Wood
- 2nd Archie Adams
- 3rd Drew Van Hise
- 4th Edgar White
- 5th Patrick Tkacik

Engineering Non-Mentored

- 1st Taylor Wells
- 2nd Katie Stine

Environmental Science

Mentored

- 1st Yupeng Liu
- 2nd Elizabeth Cannon

Environmental Science

Non-Mentored

- 1st Graham Van Schaik
- 2nd Katie McInnis & Eric Reeves
- 3rd John Maney
- 4th Aurel Lazar

Math

- 1st Matt Shrader
- 2nd Kacey Coley
- 3rd Jay Kornder

Microbiology Mentored

- 1st Adrielle Shaffer
- 2nd Marissa Moultrie

Microbiology Non-Mentored

- 1st Pierce Jones & Rachel Wolf
- 2nd Sean McCormick
- 3rd Emily Harrold & Daniel Fuerst

Physics Mentored

- 1st Sherwin Soltani
- 2nd Niru Maheswaranathan
- 3rd Ryan Clark, Alexandra Smith & Chelsey Webb

Physics Non-Mentored

- 1st Lauren Armstrong & Redding Kingery
- 2nd Thomas Clements
- 3rd Christine Parham & Christine Hebert

Physiology & Health Mentored

- 1st Rui Jiang
- 2nd Meghan Chandler
- 3rd Valerie Grant
- 4th William Musselwhite

Physiology & Health Non-Mentored

- 1st Lauren Snider
- 2nd Lauren Nixon
- 3rd Payne Montgomery
- 4th Rachel Abromaitis
- 5th Skyler Hutto

Psychology & Social Science

- 1st Sudeep Sunthakar
- 2nd Corey King
- 3rd Van Hobbes
- 3rd Kathryn Stieglitz
- 3rd Ryan Moran

Zoology Mentored

- 1st Evan Eskew
- 2nd Ashley McConnell
- 3rd Mitchell Worley & James Korecki

Zoology Non-Mentored

- 1st Mohammed Siddiqui
- 2nd Genevieve Lyke
- 3rd Mary Walker
- 4th Laura Falendysz

Middle School

- 1st Arjun Aggarwal
- 1st Destry Jones
- 2nd Stephen Mitchell
- 3rd Brandon Prince



SCJAS Annual Meeting participants

Additional SCJAS Annual Meeting Information

Written Results

Biochemistry

- 1st Jonathan Hill
2nd Alexandra Hooks
3rd Shivani Agarwal
4th Jimmy Mu

Botany Mentored

- 1st Michelle Metzler
2nd Christopher Walling

Botany Non-Mentored

- 1st Frances Ellerbee
2nd Chris Pasco
3rd Kayla Ball

Chemistry

- 1st Valentin Lazar
2nd Ralitzia H. Peneva
3rd Christine Giap

Cellular & Molecular

- 1st Erin Martin
2nd Sarah Tryon
3rd Sara Khalil
4th Cara Schendzelos
5th Ellen Drawdy

Consumer Affairs

- 1st Whitney Barr
2nd Erin McPherson
3rd Serena Dib
4th Maria Nayfa

Engineering Mentored

- 1st Xavier Harville
2nd Patrick Tkacik
3rd Ian Wood
4th Edgar White
5th Abigail Gall

Engineering Non-Mentored

- 1st Ashwin Shahani
2nd Taylor Wells

Environmental Science Mentored

- 1st Yupeng Liu
2nd Sarah Hager

Environmental Science

Non-Mentored

- 1st Graham Van Schaik
2nd John Maney
3rd Thomas Maney
4th Katie McInnis & Eric Reeves

Math

- 1st Asif Khan
2nd William Shrader
3rd Jay Kornder

Microbiology Mentored

- 1st Julia Killingsworth
2nd Adrielle Shaffer

Microbiology Non-Mentored

- 1st Gordon Alexander
2nd Emily Harrold & Daniel Fuerst
3rd Brett Taylor
4th Sean McCormick

Physics Mentored

- 1st Sherwin Soltani
2nd Niru Maheswaranathan
3rd Kate Drafts

Physics Non-Mentored

- 1st John Hodge
2nd William Moser
3rd Lauren Armstrong & Redding Kingery
4th Thomas Clements

Physiology & Health Mentored

- 1st Rui Jiang
2nd Carolyn Fisher
3rd William Musselwhite
4th Valerie Grant

Physiology & Health Non-Mentored

- 1st Vladimir Plotkin
2nd Lauren Nixon
3rd Payne Montgomery
4th Lauren Snider
5th Nicole Leederkin

Psychology & Social Science

- 1st Sudeep Sunthakar
2nd Emily Nellmore
3rd Arlen Chen
4th Ryan Moran
5th Corey King

Zoology Mentored

- 1st Evan Eskew
2nd Sarah McCall
3rd Jack Etheredge
4th Ashley McConnell

Zoology Non-Mentored

- 1st Nadia Shamsedin
2nd Genevieve Lyke
3rd William Newsome
4th Brett Whalen & Ryan Lee



SCJAS Annual Meeting presenters

UNIVERSITY OF SOUTH CAROLINA
REGION II SCIENCE & ENGINEERING FAIR
 for Calhoun, Clarendon, Fairfield, Kershaw, Lexington, Newberry,
 Orangeburg, Richland, and Sumter counties.
2007 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 23, 2007. Students from nine counties (listed above) competed for over \$30,000.00 in scholarships, savings bonds, and trip awards. Six hundred seventy-one (671) students and one hundred thirty-three (133) teachers participated in the fair, which included 66 Schools, (53 Middle / Elementary Schools and 13 high schools). The students were selected by Two Hundred fourteen (214) 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 340 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 two teachers to be in the Official Party to represent South Carolina at ISEF in Albuquerque, New Mexico, May 13-19, 2007.

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, **Kaitlyn Rainwater and Ariel Guinn** of Dreher High School, Grand Prize Female Senior Division winner **Shivani Agarwal** and Grand Prize Male Senior Division winner **Graham Van Shaik** of Spring Valley High School. Students to be sent as official observers are **Ryan Moran** and **Lauren Nixon** of Spring Valley High School. USC will certify **Lisa McAlpine and Robin Henderson** of Spring Valley High School and **Judith Ray** of Dreher High School to lead the official ISEF party for the State of South Carolina. The above six students will be representing South Carolina at the International Science and Engineering Fair May 13-19, 2007 at Albuquerque, New Mexico. A report on their success will be added to this summary. In addition, students **William Newsome** of Spring Valley High School, **Alex Mao Zhang** of Dreher High School, **Lauren Nixon** of Spring Valley High School, and **Deborah Ann Beihl** of Forest Creek Academy Homeschool have won Male and Female 2nd & 3rd place winners.

Last year at Intel ISEF (2006), Graham van Schaik was second best in the world in environmental sciences and won a \$1,500 award. In addition, Graham was recognized with a \$20,000 scholarship to the Albany College of Pharmacy of Union University, a \$500 second place award from the Endocrine Society and a \$3000 first place award from the U.S. Air Force. Robin Henderson, Graham's advisor at Spring Valley High School, will also receive \$300 as part of the U.S. Air Force award. Graham van Schaik's project is titled "Pyrethroids as Endocrine Disruptors: The Effect of Residual Pyrethroid Levels as Found in *L. esculentum* (Tomatoes) on the Abnormal Proliferation of MCF-7 Human Breast Cells" (Pyrethroids are a component of some common pesticides). Individual Grand winner Gina Noh won an honorable mention award and \$100 from the U.S. Coast Guard for her project on the effect of various anti-corrosive methods on the corrosion process of iron.

DISCOVERY CHANNEL YOUNG SCIENCE CHALLENGE / HISTORICAL CHANGES/

We have worked hard in the past several 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. In 1999, we lowered the grade limit to enable fifth-grade students in the nine-county region to become eligible.

We nominated 60 middle school students and five alternates to compete in DYSC in 2007. 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.

Last year (2006) Seven (7) Students four (4) from Region II were chosen by the Discovery Channel Young Scientist Challenge (DCYSC) as semifinalist (400 nation-wide). 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 with wants to explore the world around them. The four semifinalists from the South Carolina Midlands last year were; **Arjun Aggarwal** (Grade 6) Lexington Middle School (Columbia), **Caroline Clare Beebe** (Grade 8), Dent Middle School (Columbia), **Soorya Raghu Avali** (Grade 8), Dent Middle School (Columbia), **Kristen Addie McLaurin** (Grade 8) Dent Middle School (Columbia).

USC Region II Winners of Grand Awards Junior Division

Calvin Hu (Dutch Fork Middle School, Sponsor **Trina Dickerson**) research project entitled *Pets vs. Allergies*, won First Place. **Kayla Phipps**, (Summit Parkway Middle School, Sponsor **Jennifer Sullivan**) research project entitled *What's Hot in Windows?*, won Second Place. **Elizabeth Basnight** (Dent Middle School, Sponsor **Marriah Schwallier**) project entitled *Got Thrust? Thrusting Evidence to Shift Your Worlds*. Also, the Best Project Awards by Grade were given as follows: 5th Grade – **Bushra Binte Islam** of the Islamic Academy of Columbia, 6th Grade – **Jeremy Wu** of the Wu Family Homeschool, 7th Grade – **Mary Katherine Thorne** of Crayton Middle School, 8th Grade – **Bushra Rahman** of Crescent Academy Homeschool. *In addition* out of over 500 junior division participants from nine counties, the above three grand awards winners join sixty additional students that will represent South Carolina in the **Discovery Channel Young Science Challenge (DCYSC)** during the summer of 2007.

USC Science & Engineering Fair tours for Science Fair Students

The University of South Carolina sponsored five active and hands-on tours on March 23, 2007 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 23, 2007.

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

Tour # 2: USC School of Medicine: Restricted Sections of the Medical University. *Careers in the Health Professions*, Richard A. Hoppmann, M. D. Associate Dean for Medical Education and Academic Affairs.

Tour # 3: Electron Microscopy Center: Hosted and presented by Dr. Donggao Zhao – Basement of Coker Life Science Building, USC Campus.

Tour # 4: Physics Lab Tour: Sponsored by the College of Arts & Sciences with Dr. David Tedeschi of the Physics Department as Host – Physical Science Building, USC Campus.

Tour # 5: College of Engineering: Sponsored by the College of Engineering, Department of Computer Science & Engineering – Room 1A00 College of Engineering & Information Technology, USC Campus.

Tour # 6: The Herbarium: Hosted and presented by Dr. John Nelson, College of Arts and Sciences – 208 Coker Life Science Building, USC Campus

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

Dean Michael D. Amiridis
College of Engineering

Dean Mary Anne Fitzpatrick
College of Arts & Sciences

Dean Chris Plyler
Regional Campuses & Continuing Ed

Dr. Richard Hoppman
Interim Dean
USC School of Medicine


Dr. Harris Pastides
VP for Research
University of South Carolina

Marie McGehee
Colonial Supplemental Insurance
Sponsor – 2007 Judges Dinner

Dean Mary Ann Parsons
College of Nursing

Dr. Hans-Conrad zur Loye
President
South Carolina Academy of Science

Sincerely,



Don M. Jordan, Ph.D.
Director, USC Region II Science & Engineering Fair.



**South Carolina
Junior Academy of Science**

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<http://www.erskine.edu/scjas>

