



The CSRA Chemist

SAVANNAH RIVER SECTION
OF THE
AMERICAN CHEMICAL SOCIETY

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The CSRA Chemist

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Meeting Announcements: *The CSRA Chemist* will announce scientific meetings of interest to chemists and chemical engineers (when space is available). For information and deadlines, contact Lewis Baylor.

Change of Address: On the web at <http://www.acs.org>; by telephone at 800-333-9511; by email: service@acs.org. The Local Section receives roster updates on a monthly basis from ACS National.

AUGUST EVENT

CREECH AWARD / RECOGNITION OF LONG-TIME MEMBERS

Date: Thursday, August 14, 2008
Location: Sconyer's Bar-B-Que
Time: 6:30 p.m.
Speaker: Chair Krissy Ziegler will discuss upcoming Section events.
Cost: \$12; \$6 for students
Menu: Pork, Turkey or Beef

Reservations: Contact Elise Fox at (803) 507-8560 or elise.fox@srnl.doe.gov. Leave a message on voice mail if necessary, indicating the names of those attending. Please sign up early!! The deadline is Monday, August 11. No shows will be charged full price.

Directions: Sconyers is located off Windsor Spring Road near the intersection of Peach Orchard Road and I-520 in Augusta, GA.

Agenda

- Denise L. Creech Outstanding High School Chemistry Teacher Award presentation to Mrs. Jill Harrell, Evans High School
- Recognition of long-standing ACS members
- Discussion of ACS-SR upcoming Fall Events



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NOTES FROM THE CHAIR

I hope that everyone has been having a great summer. It is hard to believe it is August already! We had a lot of great events that happened this spring and we have many more planned for this fall. I want to thank everyone that helped organize and participate in all of the activities that we planned.

To start off the year, we will honor the winner of our Denise Creech Outstanding High School Teacher Award, Mrs. Jill Harrell, a chemistry teacher at Evans High School. Mrs. Harrell will be presented a certificate and a check for \$500 from the ACS-SR. Evans High School will also be presented a check for \$100. Mrs. Harrell will also be nominated for The ACS Division of Chemical Education Southeast Region Award for Excellence in High School Teaching. We congratulate Mrs. Harrell on her outstanding achievement and we encourage teachers to nominate themselves for next year's award. We also encourage you members to suggest nominees for the award and encourage local high school chemistry teachers to fill out the nomination.

The YCC has gotten off to a great start and I want to thank Blythe Ashcraft and the YCC for the excellent job they are doing planning events and encour-

aging participation. Blythe has got a lot of enthusiasm and great ideas. Please come out and support the YCC at the various activities that they have planned.

Speaking of great enthusiasm and ideas, we are looking for a few good women and men to volunteer for our open officer positions. It is a great experience and the executive committee is a great group of people to work with.

I encourage you to come out and participate in some of our fall events. Of course we are always looking for volunteers for NCW which will be in October. We have some interesting meetings planned for the fall including our "Tall Tales of Chemistry" where we will be sharing our most interesting stories of the lab! We hope that you come and share your chemistry story with us! Please visit our website for upcoming event dates and times (<http://acs-sr.home.mindspring.com>)

I know that I sound like a broken record saying 'please volunteer, please volunteer!' But volunteers are what make this organization so successful. Volunteering is also a lot of fun- you are always working with a good group of people that share a common chemistry interest. And it does not occupy a lot of your time. Most events that we host are half a day, at the most. I cannot say that I have ever had a bad volunteer experience with the ACS. And there is always something for everyone- whether

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it is making slime, building a bridge, or picking up trash! So come out and be a part of your local section and help us spread the good word about chemistry!

We will see you at an upcoming event!

- Krissy Ziegler

CHEMLUMINARY AWARDS

Our section was nominated for 2 ChemLuminary Awards: Joint Subcommittee on Diversity-ChemLuminary Award for Diversity Committee on Chemistry and Public Affairs- ACS Presidents Award for Local Section Government Affairs. The award winners will be announced at the 236th ACS National Meeting in Philadelphia on August 19th. Chris Bannochie will be representing our section. Good luck Chris!

- Krissy Ziegler

COMMUNITY OUTREACH

Thanks to Polly Berseth and all of the ACS-SR volunteers that helped build a Rain Garden boardwalk in Phinizy Swamp Nature Park on April 19th. The “rain garden” is a concept proposed by the U.S. Fish & Wildlife Service to adapt water retention basins for aesthetic, ecological, and educational purposes. Most retention basins are designed to serve in storm water management by capturing runoff and floodwaters. Once converted to a rain garden, these basins also serve as important habitat for flora and fauna as well as unique backdrops for educational opportunities.

Also as part of Earth Day activities, we began trash pickup along a 1 mile stretch of Whiskey Road that the SR-ACS has adopted as part of the Adopt-A-Highway campaign. Thanks to those that came out and made the area cleaner.

- Krissy Ziegler

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THERMITE REACTION

The Local Section performed demonstrations for National Transportation week with All Aboard, Norfolk Southern, Orgo-Thermit, and the city of Aiken at Giles Park on March 16, 2008. Giles Park is the site for the future Aiken Railroad Depot museum, which is being funded by public and private funds through All Aboard. The event was planned by Local Section members Glenn Fugate and Michael Bronikowski, Stephen Hale and Glenn Parker from All Aboard and the city of Aiken Parks and Recreation Services. The commercial application of the thermite reaction was discussed by Stanley Markis, Welding Manager of Norfolk Southern, and Curtis Bragg of Orgo-Thermit, a commercial supplier of proprietary thermite materials. Fugate, Bronikowski, Nick Bridges, Philip Almond, and other Local Section members performed demonstrations on solar and hydrogen energy, steam power, and the thermite reaction for passersby and students from St. Mary's School and Aiken Preparatory School. The event was covered by all of the local news media (links are available on the ACS-SR website to the articles and videos from the event).

- Glenn Fugate



ACS-SR ADOPTS WHISKEY ROAD

ACS-SR has adopted a highway in the South Carolina Palmetto Prideway campaign. We have been assigned the stretch of Whiskey Road (SC 19) from Chukker Creek Road to Chime Bell Church Road. Join us on Saturday, August 2 and Saturday, November 1 to help keep Aiken clean! Please meet at the Town and Country Inn on Whiskey Road at 9:00am.

6 - Elise Fox

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NOTES FROM THE YOUNGER CHEMIST COMMITTEE

The YCC goes GREEN! As gasoline and energy prices are quickly becoming overwhelming, the Savannah River - Younger Chemists Committee has decided to do its part and offer some suggestions about how you and your family can save money and help the environment.

10 WAYS TO GO GREEN AT HOME*

- 1) Install a programmable thermostat - it is a tax deduction and a money saver. Suggested temperature settings for inside - 78°F for the summer 68°F for the winter. If this is too much, adjust the temperature before leaving. Hopefully Fluffy and Sparky will be tolerant. Additionally, replacing your a/c filters every month trims costs and helps your unit run more efficiently.
- 2) Purchase compact fluorescent light (CFL) bulbs for all your lighting needs. Make sure to take advantage of the **CFL HOME DEPOT RECYCLING PROGRAM** to prevent mercury in landfills. At each Home Depot store, customers can bring expired, unbroken CFL bulbs to the returns desk – at no additional cost.
- 3) Turn off lights and electrical devices when leaving a room. If you are really hard-core you will close the door and vents in rooms not in use.
- 4) Don't leave appliances in standby. Unplug things like cell phone chargers as they continue to use energy even when things aren't charging.
- 5) Avoid pre-rinsing dishes before putting them in the dishwasher - running water can add up quickly. Perhaps let Fluffy or Sparky have a snack, they will forgive you for the hot/cold day.
- 6) Keep the lint filter in your dryer clean. This will make your clothes dry faster.
- 7) Start a compost pile. About 1/3 of your trash can be composted – vegetable peels, teabags, coffee grounds, shredded paper, etc.
- 8) Reuse plastic bags, Ziploc and shopping, or buy re-usable canvas bags.
- 9) Fix any dripping faucets. One dripping water tap wastes enough water in a week to fill half a bath.
- 10) Take a quick shower – baths can use 30 gallons of water, a shower can

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use a third of that amount. Try to keep showers to five minutes, and perhaps even invest in a shower timer. If you love your tub time, you can always try using your bathwater to water your houseplants or garden (inedible).

*Please review feasibility before implementation

-Blythe Ashcraft

GREEN POWER! What is GREEN POWER? Green Power is electricity that is produced from 100% renewable resources. One example of producing Green Power is placing solar panels on your roof and tying them into your home's electrical grid. Instead of having to install solar panels, a wind turbine, or other Green Power devices, you can take advantage of Santee-Cooper's (South Carolina's state-owned electric and water utility) Green Power Tags. This program makes the process of going green very, very easy.

Santee-Cooper produces most of its Green Power from recaptured methane generated by landfills (although it is experimenting with solar and wind generating facilities). This power gets placed on the grid and is sold, along with the electricity produced from coal and other sources, to other electrical companies

or to consumers. According to Santee-Cooper, by paying \$6 per month for 2 blocks of 100 kilowatt-hour Green Power, you have the same environmental impact as recycling 320 pounds of aluminum (and it is tax deductible). Contact your electricity provider for more information or check out:

<https://www.santeecooper.com/portal/page/portal/SanteeCooper/Environment/GreenPower>

-Tad Whiteside (803-725-8267 or tad.whiteside@srnl.doe.gov)

ELECTION CALL

Are you interested in being more involved with the local section? We are always looking for a few good officers! If you are interested in becoming the Chair Elect or Treasurer, please let Mike Bronikowski know- elections are right around the corner! We also are always looking for committee chairs and members for events like National Chemistry Week, The Denise Creech Award, Public Outreach Events, Industrial Affairs and Finance. If you are interested in joining a committee, please let an officer know.

-Krissy Ziegler

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CREECH AWARD WINNER

The 2008 Denise L. Creech Award winner is Mrs. Jill Harrell! Mrs. Jill Harrell is an outstanding chemistry teacher at Evans High School (EHS). She has taught a variety of chemistry courses, AP Chemistry, College Prep Chemistry and currently teaches Honors Chemistry and Chemistry II (Forensics). She helped develop the Forensics course making EHS one of two schools in Ga. that teach this course. While teaching, Mrs. Harrell received a Master of Science Education from the University of South Carolina. She is also active in the Professional Association of Georgia Educators and the Georgia Academic Team Association. Some of you may know her as the coach of the academic and science bowl teams, some as your chemistry teacher, and some as your colleague. The local section would like everyone to know her now as the 2008 Denise L. Creech Award winner. Congratulations Mrs. Harrell.

-Mike Bronikowski

LITTLE CHEMISTS

Congratulations on the birth of our newest little chemists:
 Ryan Powell on March 15th to Kim Crapse and husband Bruce
 Madison Olivia on March 24th to Krissy Zeigler and husband Sean
 Hannah Eleanor and Colin Russell on May 31st to Elise Fox and husband Kevin

- Krissy Ziegler

50-YEAR MEMBERS

Congratulations to the following members who have been recognized by ACS for being members for 50 years!

Mr. Lucius G. Jordan
 Dr. Donald A. Orth
 Mr. Thomas E. Williams

And the following members have been with the ACS for 60 years!!

Dr. Edward L. Albenesius
 Dr. Wu C. Cheng
 Dr. James W. Cleary
 Dr. Floyd B. O'Neal
 Mr. James R. Tier

QUILL AND FLASK



Here are some of the newest ways from the American Chemical Society to stay in touch and stay informed.

- Lewis Baylor

Join the ACS Member Network

Want to connect with members in your local section? Join the ACS Member Network! The ACS Member Network is an online networking tool that facilitates more effective collaboration among ACS members and scientific professionals. You can:

- Build your own personal scientific network.
- Share research and publications information.
- Find friends and colleagues faster and easier than ever before!

It's safe. It's searchable. It's FREE. And it's a great way to stay connected with the best and brightest. Visit www.acs.org/MemberNetwork to sign up today!

ACS Debuts Global Challenges Podcasts

ACS' *Global Challenges/Chemistry Solutions*, a series of podcasts describing some of the 21st Century's most daunting problems, and how cutting-edge research in chemistry matters in the quest for solutions, debuted June 25. The first podcast deals with the shortages of clean water as the basis of other global problems.

This sweeping panorama of global challenges includes dilemmas such as providing a hungry, thirsty world with ample supplies of safe food and clean water; developing alternatives to petroleum to fuel society; preserving the environment and assuring a sustainable future for our children and improving human health.

An ongoing saga of chemistry for life — chemistry that truly matters — *Global Challenges* continues through December. Subscribe at iTunes or listen and access other resources at www.acs.org/globalchallenges.



ACTIVITIES CALENDAR

Date	Event	Venue	Location
January 29	Future City Competition	USCA	Aiken
February 7	Dr. Howard Peters "Chocolate - Food of the Gods"	Carrabba's	Augusta
February 9	DOE Science Bowl	USCA	Aiken
February 12-13	SRS Technology Days	Ft. Discovery	Augusta
March 11	Drs. Rothenberger & Webb "Is it Chemistry or Magic?"	USCA-RPSEC	Aiken
March 17	Dr. Burce Bursten - Pres. ACS	ASU	Augusta
April 6-10	ACS National Meeting	Various	New Orleans
April 16	Dr. Thomas Spittler "Groundwater Protection - A Problem Whose Time Has Come"	TBA	TBA
April 22	Earth Day	TBA	TBA
April 26	Augusta GreenJackets Game	Lake Olmstead	Augusta
May 11-17 TBA	Thermite Reaction Demo.	Train Depot	Aiken
Aug. 2	Adopt-a-Highway	Town & Country Inn	Aiken
August 17-21	ACS National Meeting	Various	Philadelphia
September 11	CSRA College Night	James Brown Arena	Augusta
September TBA	Cytec Tour	TBA	Langley
October TBA	Tall Tales of Chemistry "Share your favorite chemistry stories!"	Aiken Brewing Co.	Aiken
October 18	SEED	USCA	Aiken
October 19-25	National Chemistry Week	Various	CSRA
Nov. 1	Adopt-a-Highway	Town & Country Inn	Aiken
Nov. TBA	Yucca Mtn. Science Cafe	TBA	TBA
November 12-15	SERMACS 2008	Music City Sheraton	Nashville
December TBA	Awards & Wine Dinner	TBA	TBA

YCC Summer/Fall Calendar of Events

Date	Event	Place	Time
July 31	Planning Meeting for SEED	Teresa's-Aiken	6:00 pm
Aug. 15	MCG Childrens' Hospital Event	MCG	1:30 pm
Sept. ?	Social Event - Pizza Joint	Aiken	6:00 pm
Oct. 18	SEED	USCA	10:00 am

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