



The CSRA Chemist

SAVANNAH RIVER SECTION
OF THE
AMERICAN CHEMICAL SOCIETY

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Say Paul, did you do much chemistry growing up in Thunder Bay, Ontario?



Why no, Dave, but may I say that chemistry is cool, very cool.

The CSRA Chemist

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Mailing Address: Savannah River Section - American Chemical Society, c/o Lewis C. Baylor, Equitech Int'l Corp., 218 Richland Ave. W, Aiken, SC 29801. All newsletter articles should be sent to this address. All subscriptions, ads, and payments should be sent c/o Brian Anderson.

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Member Profile(s): Joe Krupa is Chair of the Membership Committee. This topic is a regular feature in the newsletter. The profile should include: education, experience, accomplishments, hobbies and family items. To be featured, please send a 450 or less word profile, along with your phone number, to the mailing address above. Profiles will be selected by the chairperson and printed in the order received.

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: Send new address and member number to address above and ACS, PO Box 3337, Columbus, Ohio 43210. You may also send e-mail to service@acs.org.

The time for science, kids and "what if" questions is once again upon many of our members' households. This is a time some dread and some eagerly anticipate. Who can say what creativity and energy could be found and released into the next generation of chemists?

I am reminded of the first time I spent time with a scientist at work. My school system arranged for 6th graders to spend a day with a scientist and I had the privilege of a session in a laboratory at the NASA Lewis Research Facility attempting to grasp the concepts of fuel cells, electron transfers, energy states, voltages and currents, all which were foreign to me. I don't recall the name of the scientist, but he was a saint for the calm and careful explanations he provided to me that day. It placed a picture in my mind of a work environment called a laboratory where people strove to learn important information.

This year the emphasis will be on a global community of people in the field of chemistry building upon the body of information or striving to use the information to produce goods or services. The Section can support the global community by making first impressions from the diversity within our members and their international contacts. You can help by supporting requests for career talks/demonstrations, pro-

viding contacts looking for speakers or providing an international contact to accept cultural or career questions posed by a class or group. Young minds ready for a first impression await willing volunteers from the field of chemistry. Who can say what creativity and energy could be found and released into the next generation of chemists?



Let's put our energy to work for each other. If you believe our members could help support an effort to make a positive impression, contact Joe Krupa (member concerns), Laura Tovo (educational issues) or Joyce Morningstar (International Chemistry Celebration). Keep watching the newsletter for those opportunities to make an impression !

- Roy Beck

ACS-SR OFFICER REPORTS

INTERNATIONAL CHEMISTRY CELEBRATION

International Chemistry Celebration (ICHc) is a grassroots public outreach effort sponsored by the American Chemical Society. The program is international in scope and is being celebrated throughout the world by a variety of organizations. World of Color, the activity booklet for the ICHc unifying event, was developed by a team of 60 participants from 19 countries, including chemists, chemical engineers, and chemistry teachers. World of Color has been translated into 12 languages and field-tested in 25 schools in 5 areas of the world.

We're planning several ICHc events involving the CSRA community this spring, and we'd like you to participate. Planned ICHc events include:

Feb 27 Kids & Chemistry Workshop with Training in ICHc Activities

March 12 ICHc Training for Teachers at the Fort Discovery Teacher Camp-In

March 27 ICHc Activities at the CSRA Girl Scout Round-up

April ICHc Activities in School Classrooms

May 1 Hands-On Chemistry Activities for the Public at Fort Discovery

Girl Scout Roundup

On Saturday, March 27, students from Augusta State University Chemistry Club will take their ever-popular Chemistry Show "on the road" to the annual CSRA Girl Scout Roundup. The Roundup is very well attended. At last year's

Roundup, participants included more than 60 exhibitor organizations and over 2,000 Girl Scouts from 15 counties in Georgia and South Carolina.

This year, the ASU Chemistry Club's interactive chemistry show will include the International Chemistry Celebration unifying event, "World of Color, An International Search for Natural Dyes". Girl Scouts of all ages will have the opportunity to participate in global chemistry experiments to map the sources of eight colors. Results from the Girl Scouts' experiments will be added to a global data set compiled by the national office of the American Chemical Society.

If you'd like to assist the ASU Chemistry Club organize or perform their event, please contact Dr. Stephanie Myers at Tel: 706-667-4514, email smyers@aug.edu.

Hands-On Chemistry Activities with the Public

Joint Event for International Chemistry Celebration and National Science & Technology Week

Location: Fort Discovery National Science Center

Date: May 1st

Participating organizations: employees from local companies and groups of high school chemistry students

Types of activities:

1. Organization-sponsored tables for hands-on activities and chemistry demonstrations. Detailed write-ups for suitable activities can be provided to participating organizations.

2. Chemistry shows in the NSC Power Station Theater.

3. "World of Color, An International Search for Natural Dyes" and "Find Out Why" hands-on activities. Supervision of adults and children participating in the global chemistry experiments to map the sources of eight colors. Data from the experiments will be added to the American Chemical Society's global data base on the World Wide Web.

If you're interested in participating in the May 1 event or other IChC events, contact Dr. Joyce Morningstar at Tel 706-869-8587 or email to jmorn@earthlink.net.

- Joyce Morningstar

out the CSRA. For better or worse, your dues even fund this newsletter containing this article requesting your dues. Let's keep chemistry going strong, pay up.

- Tom White

GBI TOUR

The Savannah River Section of the ACS held its February meeting at the Georgia Bureau of Investigations' Augusta Branch of the Forensic Sciences Division.



Dr. William Fowler was our host, and the event was well attended. We originally had a limit of 20 people, but had to extend it to 25 as the meeting filled up the first day of registration. The tour was very informative, and we learned about the incredible capabilities at the GBI for

performing toxicology analysis, drug analysis and identification, and DNA analysis and fingerprinting. The laboratory is a state-of-the-art facility, and adheres to stringent quality control and evidence rules. Due to the large number of students in attendance, Dr. Fowler entertained questions regarding education requirements and possible opportunities in forensic science. I believe he sparked some interest in our local high school students, and he encouraged them to pursue degrees in chemistry. His rationale: chemistry opens the door. Our thanks to all who attended and especially to Dr. Fowler and his staff for hosting an outstanding meeting.

-Brian Anderson

MONEY MATTERS



This article kindly requests your voluntary local ACS contribution to the Savannah River Section of the American Chemical Society. Your contributions allow us to sponsor many quality events that are free to members, such as the recent visit to the Georgia Bureau of Investigation and the upcoming visit by Lee Marek at Fort Discovery. Most importantly, your local dues fund events that promote and generate interest in chemistry like Technical day and International Chemistry Celebration, attended by students from through-

SOUTHEAST REGIONAL MEETING ISSUES CALL FOR PAPERS

The Southeast Regional Meeting scheduled for Fall, 1999, has issued its call for papers. Persons interested in submitting papers in any field of chemistry are urged to do so. ACS regional meetings offer ACS members and others an excellent venue for sharing their research. Industrialists, academics, graduate, and undergraduate students are all welcome to participate in regional meeting programming. All abstracts (original plus two copies) should be submitted on the standard ACS abstract form, which may be accessed from <http://www.acs.org/meetings/abstract/abinfo.html>.

The 51st Southeast Regional Meeting, hosted by the East Tennessee Section, will be held at the Hyatt Regency, Knoxville, October 17 - 20. This return of SERMACS to East Tennessee celebrates the 50th anniversary of the first SERMACS, which occurred here in 1949. SERMACS-99 will feature exciting science from throughout the region, including 23 topical symposia, general sessions in key divisions, and an undergraduate Meeting in Miniature. Although this is nominally a "regional" meeting, many of the symposia will provide national and international forum for establishing and advancing the state-of-the-

art in critical research areas. Along these lines, a plenary "Lind Lecture" will be provided by National Academy of Sciences member Richard Zare (Stanford) on "What Can Chemists Tell Us About the Origin of Life?" An extensive vendor exposition, attractive family programs, and a variety of educational and training workshops are planned to complement the technical program. Abstracts are due May 15. Interested parties should contact Chuck Feigerle; University of Tennessee, Department of Chemistry, Knoxville, TN 37996; (423) 974-2129 (P); figerle@utk.edu or Kelsey Cook, University of Tennessee, Department of Chemistry, Knoxville 37996; (423) 974- 8019 (P); kcook@utk.edu or visit the SERMACS 99 web site, <http://www.sermacs99.org/> for further information.

CAREER RESOURCE CENTER AT ACS NATIONAL MEETING ANAHEIM '99

Visit the ACS Career Resource Center (CRC) at the National Meeting in Anaheim (Hall C Anaheim Convention Center) open 1 - 7 PM, Sunday, March 20, and from 8 AM to 5:30 PM Monday through Wednesday, March 21-24.

The Center will sponsor a myriad of

professional development programs and services. A National Employment Clearing House offers employers and job seekers who have registered for the meeting an opportunity to participate in on site screening interviews for current job openings. Database searches will be available on site for employers to search profiles of job seekers and for job seekers to search job postings. Advance sign-up (deadline February 26) is accessible only through the Career Services Web site at <<http://www.acs.org/careers>>>. After this date, employers and job seekers must sign-up on site.

Members can take full advantage of the National Employment Clearing House (NECH) and be steps away from free presentations on topics related to career self-management. One-hour topical sessions include Resume Writing, Interviewing Skills, Network or Not Work, Employment Trends in Chemistry, and Guidance for Foreign Born Chemists in the U.S.. Many sessions will be repeated. Mock Interview Sessions and Resume Review and Career Assistance Sessions will also be offered by appointment. A resource library featuring employment resource will also be available.

Special programs for undergraduates, graduates, and younger chemists will be offered. On Monday, March 22, from 8:30 AM to Noon, Effective Job Searching For Graduate Students & Younger Chemists. (Fee: \$25, pre-registration is strongly encouraged by March 12, k_dyson@acs.org). On

Saturday, March 20, ACS Student Affiliates will cosponsor It's Your Career — Take Charge, which focuses on skills and strategies for undergraduates preparing to enter the job market.

For more information about the workshops and programs offered through the Department of Career Services, call ACS Career Services, 800-227-5558, extension 4432 or send an E-mail to: career@acs.org

ACS CONGRESSIONAL AND SCIENCE POLICY FELLOWSHIPS

The *ACS Congressional Fellowship Program* will place two ACS members in congressional offices for one year beginning in September to:

- gain first-hand knowledge of the operation of the legislative branch;
- make scientific and technical expertise available to the government; and
- forge links between the scientific and government communities.

Applications are due January 3, 2000. The ACS is seeking applicants from among ACS members who range from the "seasoned" chemical professional to the recent graduate with or without work experience. ACS provides a stipend and an allowance for relocation expenses.

ACS also selects a *Science Policy Fellow* who works in the Headquarters Office of Legislative and Government Affairs, usually for two years. The Science Policy Fellowship offers a unique opportunity for a scientist to contribute to the Society's discussions and recommendations in areas of importance to the chemical community.

Contact the program office for application information:

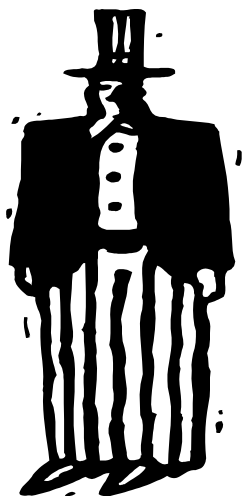
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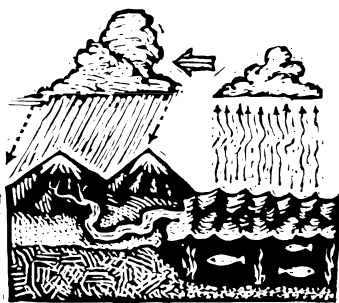
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GLOBAL CLIMATE CHANGE

Now available from ACS—an updated pamphlet that details the science behind global climate change. The 12-page pamphlet is written for the educated nonscientist.



Single copies of this publication are free and may be obtained by writing to American Chemical Society, Office of Legislative and Government Affairs, 1155 Sixteenth Street, NW, Room 330, Washington, DC 20036, phoning 202/872-4386, or e-mailing govtrelations@acs.org.

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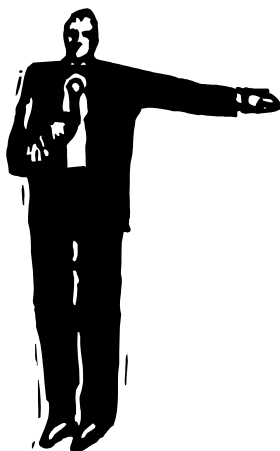
ACS-SR **MARCH MEETING**

"Chemistry on 'The Late Show with David Letterman'"

Date: **Tuesday March 16, 1999**
Location: **King George / Ft. Discovery, Augusta, GA**
Schedule: **6:00 pm dinner @ The King George**
7:30 pm - 9:00 pm presentation @ Ft. Discovery
Menu: **The King George is an authentic English pub. Order from the menu.**
Cost: **Dinner your responsibility / Presentation free/ Students welcome.**
Speaker: **Lee Marek**

Reservations: **Deadline Thursday, March 11, 1999 at 12:00 p.m.** Contact Sara Diamond at (803)-725-2605. Leave a message on voice mail if necessary, indicating the names of those attending and whether you will be attending the dinner, presentation, or both. Even though the presentation is free, reservations are required due to limited seating in Ft. Discovery.

Program: The Savannah Section of the American Chemical Society is proud to welcome Lee Marek to the CSRA. Lee is an American Chemical Society tour speaker and is coming to Augusta's Fort Discovery to present "Chemistry on 'The Late Show with David Letterman'". Lee teaches chemistry at all levels, has been an invited speaker across the country and the world, has amassed an impressive array of teaching awards and has been the subject of articles in *Time*, *People*, and various other national magazines. He has appeared on "The Late Show with David Letterman" 14 times in the last 8 years. He was a finalist for an Emmy award for science demonstrations performed on television in 1991. Lee's educational philosophy is simple: "Education is not in the filling of a pail, but in the lighting of a fire". He will talk about his experiences and show clips of some of the outrageous demonstrations featured on his television appearances. In addition, he will perform several live demonstrations. This should prove to be a very exciting and educational meeting. Please plan to attend, and sign up early as space will fill up quickly.



EDITOR'S CHOICE



This issue of The CSRA Chemist is the first one to go out to some of our members in an e-mail format only. If you are interested in this paper-saving, money-saving, and time-saving form of the newsletter, then please see the article on the facing page.

In honor of this month's tour speaker, I am pleased to present the following Top Ten List:

Top Ten Least Known Facts About Chemists

10. Able to understand ingredients lists on pre-packaged food.
9. Able to make really cool stuff in their garages.
8. Favorite superhero is Atom Ant
7. Are pretty much like those scientists in 'The Far Side'
6. Favorite holiday is National Chemistry Week.
5. Don't eat in labs because crumbs attract mice.
4. Argue endlessly about their favorite elements.
3. Prefer to drink bottled polywater.
2. Spend winters in Silicon Valley, summers in Lead, Colorado.

And the number one Least Known Fact About Chemists is...

They stay up nights worrying about hydrogen bonding.

SRS TECHNOLOGY DAY

The Section participated in SRS Technology Day on February 17, 1999. SRS Technology Day is held annually in Augusta at the Civic Center. Technology Day is held in conjunction with the celebration of National Engineers Week during February 21-27, 1999. Our Section presented information at a booth that represented the American Chemical Society among other professional technical societies such as the Society of Women Engineers, the American Society of Civil Engineers and the National Consensus Standards. The ACS booth presented information pertaining to all of our local activities such as National Chemistry Week, Chemical Jeopardy and local section meetings. A listing of upcoming teacher/children chemistry education workshops was available. Material from the National ACS headquarters, such as chemistry job descriptions and a list of chemistry-accredited colleges and universities, was available to all students and teachers. A video detailing how chemistry is involved in virtually all facets of everyday life was continuously shown. Lewis Baylor, Crystal Biddle and Charles Crawford kept the information flowing throughout the day. Inquiries into obtaining copies of the informative chemistry video as well as inquiries into chemistry-related material teaching aids for high-school age students were received from visitors.

-Charles Crawford

ACTIVITIES CALENDAR

All Year*	International Chemistry Celebration	Various	CSRA
February 15	Tour: GBI	GBI	Augusta
February 17*	SRS Technology Day	Civic Center	Augusta
March 16*	Lee Marek	Ft. Discovery	Augusta
	"Chemistry on 'The Late Show with David Letterman'"		
March 27	Girl Scouts	Fair Grounds	Evans
April/May	Tour:TBA	TBA	TBA
May 1	Nat'l Science & Tech. Week	Ft. Discovery	Augusta
September 14	CSRA College Night	Civic Center	Augusta
September*	Arts In The Heart	Riverwalk	Augusta
September 20	Dr. Mary Orna	TBA	TBA
October	Meeting	TBA	TBA
October 23	SEED	USC-Aiken	Aiken
November 7-13*	National Chemistry Week	Various	CSRA
November 15	Dr. Joel Harris/Awards	TBA	TBA

* ACS-SR booth or activity, volunteers needed.

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costs. The newsletter will be sent in PDF format and can be read with Adobe's Acrobat Reader, which is available free on the WWW. Drop the editor an email at: landdbaylor@mindspring.com if you are interested in this new feature.

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