



# *The CSRA Chemist*

SAVANNAH RIVER SECTION  
OF THE  
AMERICAN CHEMICAL SOCIETY

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## ***INSIDE THIS ISSUE***

February Meeting: Crech Award and Dr. McIntyre Louthan .....	page 3
Chair's Thoughts .....	page 4
Chemical Jeopardy Roundup .....	page 5
Career Development Meetings .....	page 6
Career Services Publishes Newsletter! .....	page 6
Potter Wins Crech Award .....	page 7
CAS Product Finder Simplifies Electronic Information .....	page 7
2001 Budget .....	page 7
ACS Honors Scientists For Their Creative Discovery .....	page 9
Quill and Flask .....	page 10

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# The CSRA Chemist

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Mailing Address: Savannah River Section - American Chemical Society, c/o Lewis C. Baylor, Equitech Int'l Corp., 1359 Silver Bluff Rd., Ste. G6, Aiken, SC 29803. 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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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](mailto:service@acs.org).

# ACS-SR **F E B R U A R Y E V E N T**

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## **FEBRUARY MEETING: CREECH AWARD AND GUEST SPEAKER**

- Date: Tuesday, February 20, 2001
- Location: Snug Tavern, Augusta, GA
- Schedule: 6:30 p.m. Social, 7:00 p.m. Dinner, 8:00 p.m. Program
- Speaker: Dr. McIntyre "Mac" Louthan
- Topic: "Metallurgy, Chemistry and Corrosion Fatigue"
- Cost: \$20.00 for members and guests
- Menu: Not available at time of publication.

Reservations: 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 having dinner or just attending the program. Please sign up early!! The deadline is 4 pm, Friday, February 16.

Program: The Denise Creech Outstanding High School Chemistry Teacher Award for 2000 will be presented to Ms. Rebecca Potter of Lucy C. Laney High School by Ms. Denise Creech.

Following the award presentation, Dr Louthan will present a tutorial on corrosion fatigue and demonstrate the diverse effects of crack tip chemistry on fatigue crack propagation. Practical implications of crack tip chemistry effects to the qualification of materials and components for service in fatigue producing environments will also be discussed.

Directions: Travel west on Washington Road from the I-20 intersection. At the Davis Road traffic light turn left (Sonic will be on the right just before the light). Follow Davis Road about 1 mile, look for the Snug on the left.

# CHAIR'S THOUGHTS

It's come to my attention that in last month's newsletter I didn't discuss the Section's goals for the coming year. Well, rest assured we have some, and our Executive Committee has been working behind the scenes already to make them a reality. Here's what you can look forward to in the coming year:

1. *Improvement of our industrial relations activities.* Our work here will be in two directions. First, we will have more activities geared towards the interests of our industrial members, by which I mean non-academic and non-SRS. We already have four career development days scheduled for the spring (see Tom Crute's description of the last meeting elsewhere in this newsletter). We're also looking to put together an expo or seminar that would have wide industrial appeal, such as from a GC or other instrument manufacturer. (Any suggestions or requests are greatly appreciated!) Second, we're hoping, through our Industrial Relations Committee (currently chaired by Roy Beck), to forge closer ties with local manufacturers for our mutual benefit. Industry could take advantage of our position as the central chemical organization in the area, and we could get industrial sponsorship of Section events (for example, awards and scholarships).

2. *Continued support and nurturing of the Technicians' Affiliate Group (TAG).* As you've seen in the last few

newsletters, the TAG is off to a great start, with well over 20 members already and adding more every month. By all accounts its members are getting a lot out of their participation, and Jeannine Mills has done a tremendous job with the organization so far. But this is a crucial time for the TAG, as they're still trying to reach that "critical mass" where they can exist on their own. The Executive Committee is doing its part with financial support, mentoring, and sharing resources when appropriate. Please consider what you can do to help the TAG, especially if you know and/or supervise technicians that might be interested in a professional society. Its growth so far would not have been possible without strong support from the very highest managerial levels at Westinghouse. That support is a ringing endorsement of the value of a TAG membership. Please have any interested technicians call Jeannine at 725-2701 for



more information on the TAG.

3. *Expand National Chemistry Week outreach to more Aiken County students.* Many of you know that our Section, in conjunction with the ASU Chemistry Department, puts on a yearly chemistry show for 6<sup>th</sup>-graders in Augusta-Richmond County. In the past, we've done similar shows for South Carolina students through USC-Aiken. But school budget cuts have all but eliminated field trips for S.C. students, and consequently we have not been able to spread our message ("Science is fun!") to a significant number of students in the CSRA. We are investigating several ways to work around this restriction.

These are feasible goals, toward which we are already making progress. I also have a personal goal, which is to see as many new, or at least not recently seen, faces at our events as possible. We're off to a good start – we had 4 or 5 such people at Chemical Jeopardy. Take a look at our schedule and see what *you'd* like to attend!

- Rob Lascola

## CHEMICAL JEOPARDY ROUNDUP

On Wednesday evening, January 31, approximately 25 knowledge-hungry souls took part in this year's Chemical Jeopardy event at USC-Aiken's Etherredge Center. We had four teams, each comprised of one student and one professional chemist, vying for the grand prize of gift certificates to Borders' bookstore. Your fearless Chair served as host, which gave him an excuse to haul out the tuxedo he's been carrying around for a few years. (It still fit, which was for him a personal highlight of the evening.) The contestants and audience puzzled over some intriguing categories, including Structures, Pioneers, The State of Chemistry (matching element abbreviations to US state abbreviations), Gizmos and Black Boxes, and 125 Years of ACS. The contest was well-fought, and congratulations to all who played, especially our winning team of Don Brown, a senior chemistry major at ASU, and our very own Chair-Elect, Steve Serkiz.

See how you might have done! In honor of our milestone anniversary, here are the questions from 125 Years of ACS. You can find the answers elsewhere in the newsletter.

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### 125 Years of ACS

**200:** The ACS was founded in 1876 in this northeastern city.

**400:** Within plus-or-minus five, in this year ACS membership passed 50,000.

**600:** Within plus-or-minus five, in this year *Chemical Abstracts* began publication.

**800:** This two-time Nobel winner was ACS president in 1949.

**1000:** While the ACS has had many Nobel winners, this Harvard professor was the first, in 1914, for his work in improving the measurements of atomic masses.

- Rob Lascola

more desirable. The next group meeting will be Monday, February 19 at 7:00 PM in the New Science Building Conference Room (E1012) of Augusta State University. The February topic is resumes. Bring a copy of your resume on an overhead-projector transparency for critical (and hopefully helpful) evaluation. Snacks provided. For more information and to obtain career assistance materials contact Tom Crute (w-667-4517 or tcrute@aug.edu).

- Tom Crute

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## CAREER DEVELOPMENT MEETINGS

During the first several months of 2001 the Local Section will sponsor career development meetings on the third Monday of each month. The first career development meeting in January was an overwhelming success with 15 people in attendance. The participants completed a self-evaluation exercise that was then shared with the group. This allowed brainstorming on desirable career paths that match each individual's strengths and motivations. Of course, the free food made the meeting even

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## CAREER SERVICES PUBLISHES NEWSLETTER!

ACS Department of Career Services has published in January 2001 "The Employer Speaks," a Professional & Workforce News newsletter that provides tips on the current job market for chemists. Brian Fowler, an executive with Elite Search, Inc., a Georgia-based recruiting firm, states in the publication that the job market for Ph.D.s is better today than in years. He also said salary offers for inexperienced BS chemistry graduates have increased to a level unprecedented in 20 years. For more information about the publication or other ACS Career Services products, please call 1-800-227-5558 or email: careers@acs.org.

## POTTER WINS CREECH AWARD

Ms. Rebecca Potter, who teaches at Lucy C. Laney High School in Augusta, has been named the winner of the Denise Creech Outstanding High School Chemistry Teacher Award for the year 2000. We are again honored to have Ms. Denise Creech make the trip down to Augusta from Washington, DC to present the award in person.

Ms. Potter has been teaching at Lucy C. Laney for the past three years. She currently teaches biology, chemistry and human anatomy, and physiology. Besides her regular teaching duties, Ms. Potter provides after school tutoring for her students and is also the women's varsity soccer coach. On weekends she teaches in the Upward Bound Program at Paine College.

Ms. Potter was chosen from the nominations received by last year's Awards Committee: Roy Beck, Chair; Stephanie Myers and Lewis Baylor.

- Lewis Baylor and Roy Beck



## CAS PRODUCT FINDER SIMPLIFIES ELECTRONIC INFORMATION

If you are sometimes confused by the increasing number of choices for electronic information services, there's help on the CAS web site!

Directly accessible at <http://www.cas.org/products/finder/index.html>, the Product Finder presents a few simple choices to specify your occupations and interest in information. Then just click a button to see a listing of CAS or STN International services that may fit your information needs.

## 2001 BUDGET

The budget proposed for 2001 is nearly identical to the budget proposed for 2000. It was decided that last year's budget set category values at achievable levels and so it was only necessary to slightly modify the budget. New projects we are sponsoring this year are the Technician Affiliate Group (TAG) and the Career Workshop meetings held at Augusta State University. These are funded by the slight increase in our income this year and by decreasing the amount spent on public relations. There is also now a separate line item for our Section's web page.

*See table on page 8.*

## BUDGET FOR 2001

<b>Income</b>	<b>Actual '00</b>	<b>Budget '00</b>	<b>Budget '01</b>
ACS allotment	5,051.00	4,744.00	5,000.00
Local dues	1,637.06	1,500.00	1,600.00
Interest	358.26	200.00	300.00
Meetings (See Meeting Expenses)			
<b>Total</b>	<b>7,046.32</b>	<b>6,444.00</b>	<b>6,900.00</b>

<b>Income</b>	<b>Actual '00</b>	<b>Budget '00</b>	<b>Budget '01</b>
Awards	213.48	250.00	350.00
Career			200.00
Chem. Olympiad	356.52	500.00	400.00
Invested	300.00	300.00	300.00
Meeting Expenses (Net)	1,706.84	1,600.00	1,400.00
Miscellaneous	238.81	300.00	300.00
Nat. Chem. Week	402.13	600.00	600.00
Newsletter	1,407.75	1,200.00	1,400.00
Public Relations	445.51	600.00	200.00
Scholarships	250.00	250.00	250.00
Service Charge	125.00	125.00	125.00
TAG			500.00
Travel	125.00	500.00	400.00
Web			250.00
<b>Total</b>	<b>5,567.25</b>	<b>6,225.00</b>	<b>6,675.00</b>
<b>Surplus/(Deficit)</b>	<b>1,479.07</b>	<b>219.00</b>	<b>225.00</b>

- Tom White

## ACS HONORS SCIENTISTS FOR THEIR CREATIVE DISCOVERY

Five researchers received the 2000 Industrial Innovation Award on December 8th at the Southeast-Southwest Combined Regional Meeting in New Orleans. The recipients were honored for their discoveries and inventions that have contributed to the commercial success of their companies and to the enhancement of the quality of life.

Susan Daluge for her help in the development of Ziagen®, a new anti-HIV drug that can dramatically simplify treatment. It can be combined with AZT and 3TC in a single pill that is taken twice daily instead of as 10 to 20 separate pills. Glaxo Wellcome Inc. in Research Triangle Park, North Carolina, sponsored her work.

James Hall for his contribution to the science and technology of making a type of synthetic rubber used in products ranging from garden hoses to motor oil. DSM Elastomers Americas in Addis, Louisiana, sponsored his work.

Donald Kelemen for his development of a system that uses oil-eating bacteria to purify the bilge water that ships discharge into lakes, rivers, and oceans. Known as Petrolimator™, the system is sold by Ensolve Biosystems, Inc. in Raleigh, North

Carolina.

Clifford Venier and Edward Casserly for their creative use of fundamental science—organic chemistry—to develop new lubricants for satellites, automobiles and computers. The Pennzoil-Quaker State Company and Penreco in The Woodlands, Texas, sponsored their work.

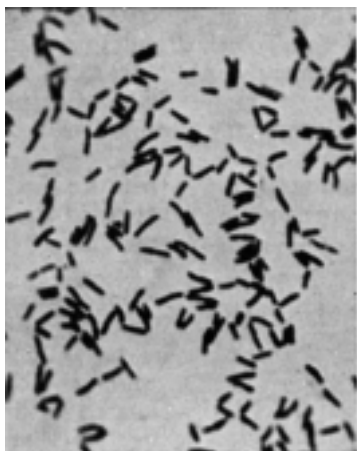
An awards luncheon was held to honor the award recipients and their companies, which included the awardees, members of management at their companies, ACS officers, and invited guests. Dr. James D. Burke, ACS Region IV Director gave a general overview of the Industrial Innovation Awards Program. Dr. Attila Pavlath, ACS President introduced the awardees and presented each recipient with an official ACS plaque of recognition.

As an added component, a special Awards Symposium was held. This new feature gave the honorees an opportunity to speak about their innovation. Dr. Armand Pepperman, chair of the Southeast/Southwest Combined Regional Meeting, presided over the symposium, and Dr. Maurice M. Burse, ACS Director-at-Large closed the symposium with gratifying remarks. In addition, a poster exhibit and tabletop display of their innovation was displayed throughout the regional meeting.

The industrial innovation awards pro-

gram administered by the American Chemical Society's Office of Industry Relations is an opportunity for the chemical industry to showcase its contributions to the community. In addition, to foster better understanding of the chemical industry; and to stimulate interest in science and the chemical industry as contributors to our enhanced quality of life.

This regional awards program is open to any 2001 regional-meeting chair interested in organizing an awards program to honor chemists and chemical engineers working in the chemical industry. For more information, contact Felicia Foxworth Dixon, Regional Industrial Innovation Awards Program, Office of Industry Relations, 1155 Sixteenth Street, NW, Washington, DC, 20036, 202-872-4454, 1-800-227-5558 ext. 4454, fax 202-872-6098, or at [cheminnovations@acs.org](mailto:cheminnovations@acs.org).



Oil-eating bacteria await their awards ceremony.

## QUILL AND FLASK



We begin this month's column with the answers to Rob's Jeopardy questions:

**200:** What is New York City?

**400:** What is 1946?

**600:** What is 1907?

**800:** Who is (Linus) Pauling?

**1000:** Who is (Theodore W.) Richards?

We end this month's column with a period.

- Lewis Baylor

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# ACTIVITIES CALENDAR

Date	Event	Venue	Location
January 22	Career Workshop	ASU - New Science Bldg.	Augusta
January 31	Chemical Jeopardy	USCA - Etherredge Center	Aiken
February 7	SRS Technology Day	Civic Center	Augusta
February 19	Career Workshop	ASU - New Science Bldg.	Augusta
February 20	McIntyre "Mac" Louthan "Metallurgy, Chemistry and Corrosion Fatigue"	Snug Tavern	Augusta
March 15	Fisher Expo (w/ TAG)	Hampton Inn	Aiken
March 19	Career Workshop	ASU - New Science Bldg.	Augusta
April 16	Career Workshop	ASU - New Science Bldg.	Augusta
April 28	Girl Scout Roundup	Aiken Fair Ground	Aiken
May	Plant Tour	TBA	TBA
Sept. 10-14	J. Ernest Simpson "Chemistry of Wine"	TBA	TBA
September 11	CSRA College Night	Civic Center	Augusta
Sept. 14-16	Arts in the Heart	Riverwalk	Augusta
October 13	SEED	USC-Aiken	Aiken
Nov. 4-10	National Chemistry Week	Various	CSRA
Nov. 12-16	James F. O'Brien, Awards "Absinthe: A Chemical and Artistic History"	TBA	TBA

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