



THE FILTER PRESS

Newsletter of the Georgia Section of the American Chemical Society

Volume 13, Number 3

March, 2003

Mass Spectrometry of Complex Biomolecules

Dr. Cameron Sullards

The combination of liquid chromatography (LC) coupled with state-of-the-art tandem mass spectrometry (MS/MS) has become a powerful tool in broad aspects of chemistry. Its importance was highlighted this year by the awarding of the Nobel Prize in Chemistry to John B. Fenn of Virginia Commonwealth University, Richmond, Virginia, and Koichi Tanaka of Shimadzu Corp., Kyoto, Japan, for their development of soft desorption ionization methods for mass spectrometric analyses of biological macromolecules.

Dr. Cameron Sullards is the Director of the Core Bioanalytical Mass Spectrometry Facility at Georgia Tech. He will talk about the Core Facility: its concept, its capabilities, its mission, its development and its future. The Facility was created at Georgia Tech to provide a resource for the Department, for other academic and research departments at Georgia Tech, for other colleges and universities and for businesses around Georgia.

Dr. Sullards will demonstrate the use of LC-MS/MS in research by highlighting some of the research he has done himself on sphingolipids. This class of compounds helps to define structural properties of membranes and lipoproteins. These compounds also participate in a wide variety of biological functions including cell growth, development, and cell death (apoptosis) through signaling, membrane trafficking, and other behaviors.

Dr. Sullards has developed rapid and robust methods for the identification, structure elucidation, and quantitation of all these species using LC-MS/MS. This allows for the rapid analysis of crude lipid extracts with a high degree of specificity and sensitivity.

Dr. Sullards holds dual appointments at Georgia Tech in the School of Chemistry & Biochemistry and the School of Biology. He received a Ph. D. in Chemistry from Emory University, where his emphasis was in analytical chemistry. His undergraduate degree in chemistry is from Hendrix College in Conway, Arkansas. He is an Atlantan by heritage, having grown up in Stone Mountain. He lives with his family in suburban DeKalb County.

Herty Award Nominations Sought

The Georgia Section of the ACS is soliciting nominations for the 2003 *Charles Holmes Herty* award. This award is presented annually to recognize the work and service of an outstanding chemist from the Southeastern section of our organization. The award recipient is honored at a ceremony in late spring by the Georgia ACS section, and a commemorative gold medal is presented. Nominees may come from academia, government, or industry and must have been doing research in the Southeastern region for more than ten years. The deadline for submission of nominations is March 21, 2003. Please send all nominations with at least two supporting letters to: Dr. Lihong D'Angelo, Chair of the Herty Award Committee, TEC415, The Coca-Cola Company, P.O. Box 1734, Atlanta, GA, 30301; ldangelo@na.ko.com; (404)676-8920.

Thursday, March 6, 2003, at The Victorian House, Conyers



Georgia Section Officers and Board

CHAIR:

Joe Stoner
Alcott Chromatography
770-248-2172
joe.stoner@juno.com

CHAIR-ELECT:

Lillian Johnston
770-364-5354
Lillian_C_Johnston@fc.dekalb.k12.ga.us

PAST-CHAIR:

Brian Fowler
Bridgestar Associates, Inc.
770-602-4222
bstar1@bellsouth.net

SECRETARY:

Lucian A. Lucia
Institute of Paper Science and Technology
Georgia Institute of Technology
404-894-9712
lucian.lucia@ipst.gatech.edu

TREASURER:

Holly Davis
The Coca-Cola Company
404-676-2980
hldavis@na.ko.com

MEMBERS-AT-LARGE:

Matthias Pohl
TMQ Services LLC

COUNCILORS:

Lihong D'Angelo
The Coca-Cola Company
Lissa Dulany
UCB Chemicals Corp.
Don Hicks
Georgia State University
Rigoberto Hernandez
Georgia Institute of Technology

ALTERNATE COUNCILORS:

Brian Fowler
Bridgestar Associates, Inc.
David Lynn
Emory University
Tom Netzel
Georgia State University
Michelle Hall
CIBA Vision

Revised Career Services Publications Now Available

Four popular, free ACS Department of Career Services publications have been updated recently and are now available. They include:

- **Employment Guide for Foreign-Born Chemists in the United States, 2nd edition.** The new version of this guide includes a section covering changes in U.S. immigration laws following the September 11, 2001 attacks.
- **The Interview Handbook.** This publication discusses the various techniques and skills needed for a successful interview. This updated edition discusses how cultural "fit" is an important criterion in how chemists are hired by U.S. employers.
- **Tips on Resume Preparation.** Readers of this text will find a discussion of the most successful types of resumes with samples of each. The new edition includes tips on marketing your resume in the electronic market.
- **Targeting the Job Market.** This publication focuses on several components of targeting the job market: personal assessment, identifying market trends, credentials, conducting research, and networking.

All four publications can be downloaded from <http://chemistry.org/careers> or by requesting them from ACS Office of Society Services at help@acs.org.

Spring Technical Symposium

The Louisville Society for Coatings Technology and The CDIC Society for Coatings Technology is pleased to host The 2003 Spring Technical Symposium April 16, 2003 at The Galt House in Louisville, Kentucky.

For more information please contact: Jimmy Cockerill, Cone Solvents, Inc., 502-448-9250; or Prakash Pradhan, Color Corporation of America, 502-722-5511.

THE FILTER PRESS

Newsletter of the Georgia Section of the American Chemical Society

The Filter Press (ISSN 1053-5721) is published monthly (except June, July, August, and December) by the Georgia Section of the American Chemical Society. Periodicals Postage Paid Atlanta GA.

Advertising and Business, Graphics Design, Submission of Materials for Publication: Direct materials for publication to Matthias Pohl, 2216 Brookhaven View, Atlanta, GA 30319, or email to mpohl@tmqservices.com.

Address Changes: ACS members should send address changes to ACS Membership Services, 1155 Sixteenth Street NW, Washington, DC 20036 or call 1-800-227-5558.

Postmaster: Send address changes to Brian Fowler, 3466 Irwin Bridge Rd., Conyers, GA 30012

SERMACS 2003 Update Number 1

By David Gottfried
Associate General Chair

The 55th Annual Southeast Regional Meeting of the American Chemical Society (SERMACS 2003) will be held at the Renaissance Hotel in Atlanta from November 16-19, 2003 (Sunday-Wednesday). By happy chance this regional meeting also coincides with the 100th anniversary of the founding of the ACS Georgia Local Section. This milestone occasion will be celebrated on Tuesday evening during the meeting with a gala banquet to which all meeting attendees are warmly invited. Over the next several months, we will provide you with a few more update reports describing some of the exciting symposia and programs that SERMACS 2003 is planning for your benefit.

Federal Science, Education, and Technology Policy

On late Monday afternoon of the meeting, all SERMACS 2003 attendees will be welcome to attend the plenary symposium on "Federal Science, Education and Technology (SET) Policy." The choice of this topic stems from the strong interactions that the GA Local Section has recently had with several of its congressional representatives. These efforts in turn resulted largely from the GA Local Section's ongoing involvement with the ACS Office of Legislative & Government Affairs. It is hoped that ACS members will be able to use plenary symposium and its panel discussion as a springboard to increase their involvement with their own congressional representatives as well as with their own local section's governmental relations activities.

Eli Pierce (immediate past-president of the ACS) has agreed to introduce the speakers and moderate the symposium's panel discussion. Invited speakers include Wayne Clough (president of Georgia Tech and member of the President's Council of Advisors on Science and Technology) and Neal Lane (former Presidential Science Advisor and head of NSF). After prepared remarks from the invited speakers, the

audience will be invited to ask their own questions of the panel of speakers. A reception will immediately follow.

High School Chemistry Programming

On Sunday, November 16, SERMACS 2003 will present a full day of programming for high school chemistry teachers beginning at 9:00 am and ending at 5:00 pm. This day will be filled with activities relevant to today's high school science classrooms. In one of the morning programs, Vernier Software & Technology will conduct a hands-on workshop at which they will provide scientific equipment and instruction in the use of this equipment. It is hoped that this workshop will enable attending high school teachers to make increased use of computers, calculators, Probes, and associated probes and software in their own laboratory science courses. In the afternoon a bus will transport interested teachers to Stephenson High School in Stone Mountain, Georgia to visit this school's outdoor classroom and the nearby Hidden Acres Park where student researchers conduct wetland monitoring experiments.

The Stephenson High School Outdoor Classroom consists of an all weather production greenhouse, an all weather research greenhouse, a seasonal shade greenhouse, two ponds connected by a 25-foot waterfall, a gazebo, an amphitheater, and vegetable, flower and butterfly gardens. Teachers and students both use the facilities for experiments as well as maintain them. In the Hidden Acres Park wetland, high school students collect and identify plant and animal species, and monitor over time water transpiration and the level of the water table. Their research has won praise from science teachers at both state and national conventions.

Important SERMACS 2003 Dates

Call for Papers: June 9, 2003

Abstracts Open: July 14, 2003

Advance Registration Open: August 7, 2003

For more information please visit the meeting's website at <http://www.cas.gsu.edu/sermacs>. ♦

For your Calendar!

April Meeting

Tuesday, April 22, 2003

Georgia Tech

Atlanta, GA

Scheduled Speakers:

Drs. Katherine Seley

&

Suzy Shuker

“Nontraditional Path to
Academic Career”

Good Chemistry Continues at ACS Regional Meetings!

ACS Regional Meetings bring chemists together in an intimate setting to...

- √ Bring outstanding technical programming to local audiences through symposia, professional development workshops, and poster sessions
- √ Present programs for graduate and undergraduate students
- √ Recognize outstanding achievements by chemists in the local area through presentation of industrial and academic awards
- √ Provide opportunities for networking and meeting colleagues from your area as well as ACS governance and staff
- √ Sponsor programs for high school teachers and students
- √ Help you to reap more benefits from your ACS membership

**55th Southeast Regional Meeting
November 16-19
Renaissance Hotel Atlanta, Georgia**

March Meeting

Mass Spectrometry of Complex Biomolecules Dr. Cameron Sullards

The Victorian House Conyers, GA

Date: Thursday, March 6, 2003

Time: 6:30 - 7:00 p.m. Arrive
7:00 - 8:00 p.m. Dinner
8:00 - 9:00 p.m. Program

Dinner: Iced Tea, Coffee, or Lemonade

Fresh Garden Salad

Chicken Cordon Bleu
Salmon Filet Meuniere
Trout Almondine
Veal Francaise

Apple Pie
Chocolate Mouse
Pecan Pie

Location: The Victorian House
1973 Rockdale Ind. Boulevard
Conyers, Georgia 30012
(770)922-5621

Directions: From Atlanta, travel East on I-20 to Sigman Rd (Exit 78). Keep left at the fork in the ramp. Turn left onto Sigman Rd SW. Turn right onto Old Covington Hwy SW. Turn slight left onto Rockdale Industrial Boulevard NW.

Cost: \$ 25.00 per person; full-time students with ID and high school teachers, \$15.00. Payment should be made to the **ACS Georgia Section** and will be collected at the door.

RSVP: Joe Stoner, Alcott Chromatography, (770) 248-2172, joe.stoner@juno.com. When making reservations, please state your name, professional affiliation, and telephone number. Reservation deadline is 5:00 PM on Tuesday, March 4, 2003. If you make a dinner reservation but fail to attend, you must still make payment for your meal.

Don't forget that you can advertise in the Filter Press! Advertise employment positions (temporary or permanent), goods, services, etc. Prices for advertisements per issue are:

Full Page	7" x 10"	\$200
Half Page	7" x 5"	\$150
Quarter page	3 1/2" x 5"	\$100
Eighth page	3 1/2" x 2 1/2"	\$50

*There is a 10% discount for 4 or more issues.

For more information, please contact Matthias Pohl, (404)869-6594, mtpohl@tmqservices.com.

Analytical Consulting
Automation/ Networking

GC/ MS/ DS & UPS
Service and Support



**SPURLOCK
SERVICES**

1795 Overlook Trail Gary Spurlock
Acworth, GA 30101 (770)917-1732

Email: spurlockservices@mindspring.com
www.mindspring.com/~spurlockservices

The SRN Company, LLC

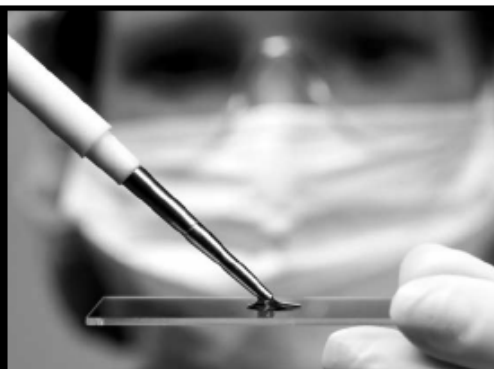
Specialists in Chemical and Material Analyses Using

- Infrared & Raman Microspectroscopies
- Hyphenated IR Methods – GC/IR, LC/IR & TGA/IR
- Esoteric IR Techniques – Kinetics, Phase Modulation

Fast Sample Turnaround – On-site Consulting

1330 Zephyr Court, Cumming, GA 30041
Phone (770)205-0248 Fax (770)205-0248
www.thesrncompany.com

THE RIGHT TOOLS IN THE RIGHT HANDS



Kforce Scientific is a leader in specialty staffing - one that is transforming the industry. Everyday, through one-on-one contacts, Kforce Scientific is making the right match between organizations and jobseekers in the scientific community.

To find the right opportunity or to find the right professional for your needs, call Kforce Scientific and let us make the right match.

Renee Cummings, Market Manager

Phone: (404) 459-2253

Fax: (404) 459-2257

Email: rcummings@kforce.com

www.kforce.com/scientific



THE FILTER PRESS

Newsletter of the Georgia Section of the
American Chemical Society

<http://chemistry.gsu.edu/ACS>

Periodicals Postage
PAID
Atlanta, GA
Publication No. 571-180