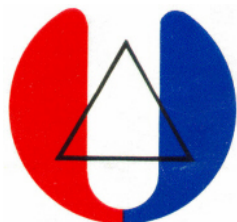


The SAS Spectrum Newsletter

The Newsletter of the Society for Applied Spectroscopy



August 2010



FACSS 2010

TOMORROW'S ANALYTICAL SCIENCES TODAY

The 37th Annual Conference of the
Federation of Analytical Chemistry and Spectroscopy Societies
October 17th – 21st, Raleigh Convention Center, Raleigh, NC

SOCIETY FOR APPLIED SPECTROSCOPY NATIONAL MEETING

Attend the Leading Fall Conference on Analytical Chemistry and Spectroscopy

The FACSS Conference continues its proud tradition of bringing together leading international scientists across many disciplines for scientific exchange. This task is accomplished through a world-class technical program, exhibition, and a variety of informal networking opportunities.

FACSS member organizations include ACS – Analytical Division, American Society for Mass Spectrometry, ANACHEM, The Coblenz Society, International Society of Automation - Analysis Division, Royal Society of Chemistry, and the Society for Applied Spectroscopy. Membership in one of the member organizations entitles you to the member conference rate.

LOCATION

FACSS 2010 will be held at the Raleigh Convention Center, 500 South Salisbury Street, Raleigh, NC 27601. The convention center provides an open and airy venue, which is attached to the Marriott Hotel. Raleigh is a charming city that the founding fathers called the "City of Oaks," and they dedicated themselves to maintaining the area's wooded tracts and grassy parks. Raleigh boasts more than 4,300 acres of parkland and almost 1,400 acres of water, offering recreational activities year round. A nationally-acclaimed greenway system spans 41 miles, providing walking, jogging and hiking trails that connect many of the city's 150 major parks.

HOTEL ACCOMMODATIONS. FACSS has a block of rooms at the following two hotels.

Marriott Raleigh City Center Hotel

(connected to convention center)

500 Fayetteville Street

Raleigh, NC 27601

For reservations call: 919-833-1120

Sheraton Raleigh Hotel

(adjacent to convention center)

421 South Salisbury Street

Raleigh, NC 27601

For reservations call:

919-834-9900 or 800-325-3535

When you make your reservation at either hotel, mention FACSS to receive the discounted conference rate of \$167 plus tax for single/double occupancy. The conference rate will be honored until September 24 or until the block is sold out.

STUDENTS: If you are looking for someone to share your room, contact the FACSS office and we will maintain a list of possible roommates.

AIR TRAVEL. The Raleigh-Durham airport is 14 miles from the hotels and convention center. Travel from the airport to downtown Raleigh can be arranged with the Super Shuttle, RDU Airport Taxi Service, or White Horse Transport. Visit the FACSS website for additional travel information.

WEDNESDAY EVENING EVENT. Analytical Chemistry...It is All Fun and Games at FACSS. Join us for an evening of food, beverage, music, dancing, and games. Challenge a colleague to a game of Battleship or test your knowledge in Trivial Pursuit. Prove you are the Mastermind of FACSS. If you prefer to be more active, there is always FACSS Twister. Everyone will be entered into a game of chance with raffle prizes being awarded throughout the evening.

WORKSHOPS. FACSS provides an excellent venue to enhance your analytical skill set by enrolling in workshops allowing you to become trained in new fields that can directly impact your career development and current occupation. Workshops will be offered on software use, spectroscopy, mass spectrometry, separation sciences, process analytical technology, chemometrics, LEAN design, statistics, and chemical imaging. **Students receive special discounted workshop rates.**

STUDENTS. FACSS is dedicated to the development of its undergraduate and graduate student attendees. Take advantage of the following opportunities.

- Reduced registration for both the conference and workshops
- Special workshop for undergraduates, Analytical Problem Solving for Undergraduates, no charge.
- SAS student poster session, Sunday, October 17
- Poster prizes awarded to students during FACSS poster sessions Monday through Thursday
- Employment Bureau
- Free Lunch and Employment Discussion, Monday, 12:30 pm. Hosted by SABIC Innovative Plastics. Contact FACSS to reserve a spot.
- Complimentary conference registration is available to students who volunteer 4 hours to help at the conference.

FOR INFORMATION AND REGISTRATION FOR THE CONFERENCE GO TO
www.facss.org



FACSS PROGRAM OVERVIEW



Sunday – October 17

Afternoon
7:00 PM SAS Members Day at the Races
Welcome Mixer and SAS Student
Poster Session

Monday Morning – October 18

Plenary



Arthur F. Findeis Award for Achievement
by a Young Analytical Scientist:
Christy L. Haynes, *University of
Minnesota*

Poster Session Symposia

The Findeis Award
Materials Characterization Using Vibrational
Spectroscopy and Mass Spectrometry
Celebrating 30 Years of ICP-MS
Laser Induced Breakdown Spectroscopy
Novel But Important Data Analysis Techniques in
Analytical Chemistry
Portable NMR and Hyphenation of NMR to
Chromatography and Electrophoresis
Near and Mid-Infrared Imaging
Memorial to Don Sting
PAT in Biopharmaceutical and Pharmaceutical
Industries
Emerging Areas in Raman Spectroscopy

Monday Afternoon – October 18

Symposia

Celebrating 30 Years of ICP-MS
The Findeis Award
Laser Induced Breakdown Spectroscopy
Chemometrics in Pharmaceutical Industry
Chromatography in the Pharmaceutical Industry
Ionic Liquids and Spectroscopy: A Green and Happy
Marriage
Quantum Cascade Laser Applications
PAT: New Technology
Biomedical Raman Spectroscopy
Emerging and Non-Traditional Electrophoresis
Techniques

Plenary



The Role of Analytical Chemistry and
Spectroscopy in Drug Discovery and
Development: Challenges and
Opportunities, **Uli Hacksell**,
ACADIA Pharmaceuticals

Tuesday Morning – October 19

Plenaries



Charles Mann Award for Applied
Spectroscopy: **Richard McCreery**, *National
Institute for Nanotechnology, Canada*



ANACHEM Award: **Marc D. Porter**,
Nano Institute of Utah

Poster Session Symposia

JAAS: Highlighting Young Investigators in Atomic
Spectroscopy
Chemometrics in Forensics
Headspace Analysis for Chemical Signatures
Dielectrophoresis and Related Techniques
ANACHEM Session
Atomic Analyses in the Pharmaceutical and
Neutraceutical Industry
Emerging Technologies for Standoff Detection for
Homeland Security
Special Session to Honor William G. Fateley
Nanotechnology
SAS Process Analytical Technology
Raman Microscopy and Imaging

Tuesday Afternoon – October 19

Symposia

Charles Mann Award
Chemistry in Art and Archaeology
Lasers in Analytical Chemistry 50th Anniversary
Chemometrics for Biological and Biomedical
Spectroscopy
Special Session to Honor William G. Fateley
Practical Aspects of Chiral Analysis Using VCD and
RDOA
Next Generation Spectroscopic Methods for the
Analysis of Pharmaceutical Systems
MS Fundamentals and Gas-Phase Ion Chemistry
Nanotechnology
ICPMS – A Lot More than Total Metals Analysis
Tip Enhanced Raman Spectroscopy

Plenary



Celebration of 30 Years of ICP-MS,
Robert S. Houk, *Iowa State University*

Wednesday Morning – October 20

Plenaries



Applied Spectroscopy William F. Meggers Award: **Paul Gemperline**, *East Carolina University*



Applied Spectroscopy Lester W. Strock Award: **Kay Niemax**, *BAM*

Poster Session Symposia

Bioanalytical Separation Science
Two-Dimensional Correlation Spectroscopy
Vibrational Spectroscopy at Work in the
Pharmaceutical Industry
Lester Strock Award
NIR
Transfer and Implementation of Chemometric Model
Optical Effects in IR Imaging
Terahertz Spectroscopy
Probing Interactions Between Biomolecules and
Nanomaterials
Sustainability and PAT Applications
New SERS Architecture

Wednesday Afternoon – October 20

Plenary



FACSS Awards:
Alex Scheeline, *University of Illinois at Urbana-Champaign*

Symposia

Biomedical Applications of Spectroscopic Imaging
Novel Sample Introduction Methods for ICP-MS and
ICP-OES
Student Awards
Two Dimensional Correlation Spectroscopy
Fundamental Studies and Exciting New Application
of Glow Discharge Spectroscopy
Meggers Award Symposium
Advances in MS Instrumentation
Terahertz Spectroscopy
Nanomaterials for Surface Plasmon Resonance
Continuous Chemistry: From Synthesis, Engineering
and Monitoring for Control
Applications of SERS

Thursday Morning – October 21

Plenaries



Coblentz Society Clara Craver Award:
Presented to **Boris Mizaikoff**, *University of Ulm, Germany*



Ellis R. Lippincott Award: Presented to
Martin Moskovits, *University of California, Santa Barbara*

Poster Session Symposia

Lippincott Award Symposium
Plasmas for Atomic and Molecular Analyses
Contributed Chromatography
Memorial to Raul Curbelo
H/D Exchange Mass Spectrometry
Surface Plasmon Resonance: Instrumentation and
Applications
Micro-Reactors and Their Roll in Optimized
Chemistries
Raman Spectroscopy in the Pharmaceutical Industry

Thursday Afternoon – October 21

Symposia

Craver Award Symposium
Atomic Spectroscopy Techniques for Solid Surface
Analysis in Biology, Geology, and Astronomy
Drop Deposition and Dynamics
RSC, Analytical Division: Applications, Advances,
and Deduction by Vibrational Spectroscopy
Chemometrics Applied to Air, Oceanography, Marine
Life and Coastal Waters
Developments and Applications in Biological Mass
Spectrometry
Surface Plasmon Resonance: Instrumentation and
Applications
Pharmaceutical Raman
Biological and Biomedical Applications of Raman
Spectroscopy

EXHIBIT

The exhibit is one of the focal points of FACSS. The exhibit opening on Monday evening and the Tuesday and Wednesday poster sessions and coffee breaks are held in the exhibit hall. As an exhibitor, you may take advantage of the following opportunities. Contact the FACSS office if you are interested in any of these opportunities.

- ***Sales or Users Group Meetings*** There are a limited number of complimentary meeting rooms for an exhibitor to use for a sales or users group meeting on Saturday, October 16, and Sunday, October 17.
- ***“What’s Hot” Vendor Symposia*** We would like to offer our exhibitors the opportunity to participate in the "What's Hot" Vendor Symposia which will be held during the lunch time hours of the conference week. You will have approximately 7 - 10 minutes to present information about your products and services. These oral slots will be assigned first come, first serve. The presentation times will not conflict with any other oral technical symposia.
- ***Complimentary Hospitality Suite*** Rooms are available to our exhibitors on a complimentary basis. Exhibitors are responsible for the food and beverage costs.

Exhibit Hours

Monday 5:30 – 7:30 pm; Tuesday 9 am – 4:30 pm; Wednesday 9:00 am – 3:00 pm

**FOR INFORMATION AND REGISTRATION FOR THE CONFERENCE GO TO
WWW.FACSS.ORG**



WORKSHOP PROGRAM



WORKSHOPS

FACSS provides an excellent venue to enhance your analytical skill set by enrolling in Workshops allowing you to become trained in new fields that can directly impact your career development and current occupation. Workshops will be offered on software use, spectroscopy, mass spectrometry, separation sciences, process analytical technology, chemometrics, LEAN design, statistics, and chemical imaging. Special discounted student rates for workshops. A full description of the workshops offered can be found at www.facss.org

Workshop fees valid through 8/29

	half day	full day	2 day
Conferees:	\$315	\$625	\$1,250
Students:	\$50	\$75	\$95
Non-Conferees	\$415	\$725	\$1,450

After August 29, all half day courses increase by \$50. All other courses increase by \$100. There is no change in the student rate.

Costs for courses that utilize computers are noted below.

SUN (10/17)	MON (10/18)	TUES (10/19)	WED (10/20)
Analytical Raman Spectroscopy (Half day - AM)		LEAN Design for the Laboratory (Full day)	Analytical Problem Solving for Undergraduates (Full day; no charge)
Inductively Coupled Plasma – Mass Spectrometry (ICP-MS): Introduction (Half day - AM)	Principles of Infrared Spectral Interpretation (Two days) →		Statistics for Analytical Chemists (Full day)
Raman Chemical Imaging Technologies and Methods (Half day – AM)		Intro to Quantitative Analysis (Full day)	Practical Applications of Mass Spectrometry for Small Molecules (Full day)
Chemometrics without Equations (or Hardly Any) - Hands On → (Two days – computers provided) <i>Conferees \$1,300, Students \$145, Non-conferees \$1,500</i>		Advanced Chemometrics without Equations – Hands On (Full day – computers provided) <i>Conferees \$675, Students \$125, Non-conferees \$775</i>	Hands-On Chemometric Analysis with the Unscrambler® (Full day – computers provided) <i>Conferees \$675, Students \$125, Non-conferees \$775</i>
Business Fundamentals for Scientists and Engineers (Full day)		Process Analytical Chemistry: Out of the Lab and into the Pipe (Full day)	
What Modern Near-IR Spectroscopy Can Do For You (Full day)		NIR Chemical Imaging (Half day - PM)	
Real-Time Fluorescent Analysis (Half day - PM)			
2D Correlation Spectroscopy (Half day - PM)			

ACS is sponsoring three workshops. Register for the following workshops directly with ACS.

Practical Approaches to Patents and Other Forms of Intellectual Property (1 day)
NIR Spectral Interpretation and Organic Spectroscopy: A Problem-Based Learning Approach (2 day)
Laboratory Safety (2 day)

To register for an ACS course go to https://facss.org/facss/workshops_list.php and then click on the ACS course.

August Historical Events in Spectroscopy by Leopold May, Catholic University

August 6, 1960

Fifty years ago on this date, the first publication on the first working laser was published in the paper "Simulated Optical Radiation in Ruby" by Theodore H. Maiman in *Nature*, 197, 494 (1960).

August 4, 1928



Jeanette Grasselli Brown, a researcher in infrared spectroscopy, was born on this date. She is an honorary member and served as the President of SAS in 1973. In 1985 she received the Garvan Medal from the American Chemical Society.

August 18, 1947

Hewlett Packard was incorporated on this day.

Comments to butcherATemail.wcu.edu