

# The SAS Spectrum Newsletter

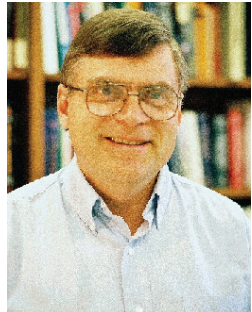
The Newsletter of the Society for Applied Spectroscopy



## May, 2009

### FACSS 2009 IN LOUISVILLE OCTOBER 18 - 22

FACSS, the National Meeting of SAS, will be in beautiful Louisville, KY this year. Come join us for another outstanding professional meeting! More information is available at <http://facss.org>.



**Plenary Lecturers at FACCS:**  
Carina Alles and Joel Harris

#### PLENARY LECTURES:

**Carina Alles**, Dupont Engineering and Technology, will speak on Sustainability.

**Joel Harris**, of the University of Utah, will present, "Quantitative Analysis Based on Imaging and Counting Single Molecules."

#### AWARD SYMPOSIA:


Charles Mann Award, **Pavel Matousek**, Rutherford Appleton Laboratory.

ANACHEM Award, **E. Neil Lewis**, Malvern Instruments.

William F. Meggers Award, **Yongri Liang, Damien Maurian, Robert E. Prud'homme, and Christian Pellerin**, University of Montreal.

Lester W. Strock Award, **Nicolo Omenetto**, University of Florida.

**NEW! Revolutionary RAMAN Spectrometer !**  
Introducing, for the 1<sup>st</sup> time ever, an instrument that combines:  
**RAMAN Microscopy, RAMAN and RAMAN OPTICAL ACTIVITY (ROA)** Watch the unveiling at [www.btools.com](http://www.btools.com)



### FACSS TECHNICAL PROGRAM

The FACSS Technical Program will include Oral and Poster Presentations on topics that include: Atomic Spectroscopy, Bioanalytical Chemistry, Chemometrics, Forensic Science, Chemical Imaging, Mass Spectrometry, Infrared Spectroscopy, Laser Ablation, Nanotechnology, Pharmaceutical, Process Analytical, Raman Spectroscopy, Sustainability, 2D Coherent Spectroscopy, Chirality, Chromatography, Fluorescence, LIBS, Terahertz, Surface Plasmon Resonance, Chemistry in Art & Archaeology, and Near IR Spectroscopy.

### FACSS MEETING VENUE AND HOTEL ACCOMMODATIONS

The 2009 FACSS Conference will be held in Louisville, Kentucky. Louisville is known for its contribution to the sporting world through Louisville Sluggers, the Kentucky Derby, and the Muhammad Ali Museum but also has a strong fine arts community and lots of Southern charm. The downtown area is located directly on the Ohio River and includes a newer restaurant and entertainment district known as Fourth Street Live! The conference will meet in the Louisville Marriott Downtown, which is within walking distance of Fourth Street Live, Waterfront Park, and other locations such as the Galt House and Louisville Glassworks. The conference rate is \$151 plus taxes for a single or double room. Be sure to mention FACSS to receive the conference rate and make your reservations early.



Marriott Hotel Downtown  
280 W. Jefferson Street  
Louisville, KY 40202  
Phone: 800-533-0127 or 502-627-5045  
<http://www.marriott.com/hotels/travel/sdflm-louisville-marriott-downtown/>

*Comments to [butcherATemail.wcu.edu](mailto:butcherATemail.wcu.edu)*

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## FACSS WORKSHOPS

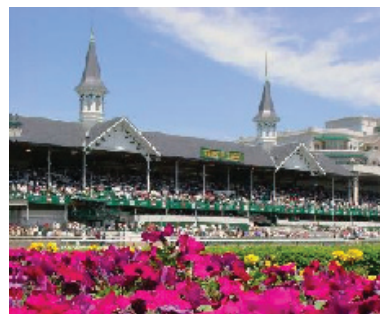
FACSS provides an excellent venue to enhance your analytical skill set by enrolling in workshops allowing you to become trained in new fields that can directly impact your career development and current occupation. Workshops will be offered on software use, spectroscopy, mass spectrometry, separation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

## FACSS 2009 WEDNESDAY EVENT – A NIGHT AT THE RACES

Following the tradition started at the 2008 Reno conference, the Wednesday night event will be an all-inclusive evening filled with Kentucky Derby tradition, heavy hors d'oeuvres, bourbon tasting, and live entertainment. The event will be held in the hotel, so no need to worry about finding your way to a new location. And of course, we'd love to see your Derby hat if you have one!

## SAS MEMBERS DAY AT THE RACES

One of the greatest benefits of SAS membership is networking. On Sunday afternoon, October 18, SAS will be hosting a FREE current members only event at historic Churchill Downs prior to the FACSS 2009 opening reception. Transportation from the hotel, food, drinks, and horse race are included. A guest can come along for an additional fee. Email [office@s-a-s.org](mailto:office@s-a-s.org) to register. Space is limited!



## PIEDMONT SECTION SAS TRAVEL AWARDS

Piedmont Section SAS Travel Awards are available to SAS Student Members in the Piedmont Section to present their research at the SAS National Meeting, FACSS (<http://facss.org>). Oral and poster presentations are eligible; students must be the presenting author. In order to be eligible for a travel award, the student and research director must both be members of the Piedmont Section of the Society for Applied Spectroscopy. Membership application materials are available on the web at <http://www.s-a-s.org/renewal-application.htm>, or by contacting the SAS Office at 301-694-8122, Fax 301-694-6860, Postal address: 201 B Broadway Street, Frederick, MD 21701-6501, email: [office@s-a-s.org](mailto:office@s-a-s.org). Travel awards are limited to \$500, only one student per research director will be supported, and the university must be located within the Piedmont Section. The Piedmont Section includes universities located in the following states: Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina, and Tennessee. Eligible expenses include student conference registration, student travel, student accommodation, and student meals. Receipts are required for all expenses.

Applications consist of (1) the completed application form (available by email from Professor Butcher, below), (2) a copy of the abstract, (3) a letter of acceptance of the paper from FACSS, and (4) a letter of support from the student's research director. Applications are due on September 4, 2009. The entire application must be submitted electronically to Professor David Butcher at [butcher@email.wcu.edu](mailto:butcher@email.wcu.edu).

## MAY HISTORICAL EVENTS IN SPECTROSCOPY by Leopold May, Catholic University

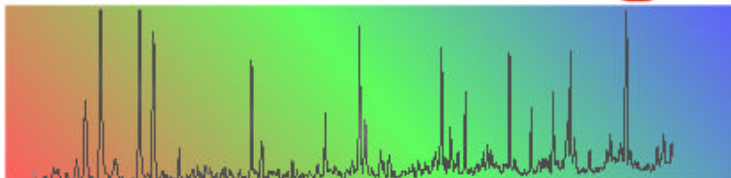


**May 3, 1928** On this day, Richard A. Nyquist, Honorary Member of SAS, was born. He uses IR and Raman for the elucidation of molecular structure and in qualitative and quantitative analysis.

**May 10, 1860** Robert Bunsen and Gustav R. Kirchhoff announced the discovery of cesium using flame spectroscopy on this day.



# SAS-Chicago



Presents a Workshop

## Infrared and Raman Micro-Spectroscopy

Wednesday, May 20, 2009 at The McCrone Group  
850 Pasquinelli Drive, Westmont, IL

- 8:30 am Workshop Registration
- 9:00 am **Look Before You Leap – Stereomicroscopy for Vibrational Spectroscopy**  
**Sample Preparation**  
Gretchen Shearer, Ph.D., *McCrone Associates, Inc.*
- 9:35 am **Chemical Imaging with Fourier Transform Infrared Microscopy**  
Rohit Bhargava, Ph.D., *University of Illinois at Urbana-., Champaign*
- 10:10 am Break & visit vendors
- 10:40 am **Analysis of Particulate Matter by Microscopy and Micro-Spectroscopic Techniques**  
Kirk Ashline, *Baxter Healthcare Corporation*
- 11:15 am **Forensic Applications of FTIR spectroscopy**  
William Chapin, *McCrone Associates, Inc.*
- 11:55 am Lunch (provided) & visit Vendors
- 1:00 pm **Surface-Enhanced Raman Spectroscopy for the Detection of Artist Dyestuffs**  
Christa Brosseau, Ph.D., *Northwestern University*
- 1:35 pm **Heavy as Stone; Light as Paper: Versatile Applications of Microspectroscopy in a Museum Context**  
Francesca Casadio, Ph.D., *The Art Institute of Chicago*
- 2:10 pm Break & visit Vendors
- 2:40 pm **Analysis of Multi-Layered Laminates Using ATR Imaging**  
Louis G. Tisinger, Ph.D., *PerkinElmer LAS*
- 3:15 pm **Applications of Raman Microscopy in Materials Analysis**  
Kenneth J. Smith, Ph.D., *Thermo Fisher Scientific*
- 3:50 pm Q&A Closing

A workbook of the presentation slides will be provided to all attendees.

For more information go to [www.sas-chicago.org](http://www.sas-chicago.org)

# 2009 Chicago SAS Workshop Registration Form

## Infrared and Raman Micro-Spectroscopy

**Return to:** James M. Julian [jamesmjulian@comcast.net](mailto:jamesmjulian@comcast.net)  
or Phil McKittrick [ptmckittrick@nalco.com](mailto:ptmckittrick@nalco.com); fax: (630) 305-2921  
or Kate Martin [kmartin@mccrone.com](mailto:kmartin@mccrone.com); fax: (630) 887-7417

**Registration:** Pre-registration only. Seating is limited and there will be NO registration on the day of the workshop.

**Registration deadline:** **May 15, 2009.**

**Fee:** Fee for the workshop is \$100.00 per attendee (members or nonmembers). Fee for full time college students is \$30.00. Fee includes lunch, break refreshments and workbook.

Checks, MasterCard or Visa are accepted. Check should be payable to *The Chicago Section of SAS*.

Please reserve \_\_\_\_\_ place(s) at the Infrared and Raman Micro-Spectroscopy Workshop @ \$100.00 per attendee / \$30.00 per student.

MasterCard or Visa: Credit Card Number \_\_\_\_\_

Expiration Date \_\_\_\_\_

Name \_\_\_\_\_ Title \_\_\_\_\_

Affiliation \_\_\_\_\_ Phone \_\_\_\_\_

Address \_\_\_\_\_ State/Zip \_\_\_\_\_

E-mail \_\_\_\_\_

For all questions or additional information regarding the workshop details go to [www.sas-chicago.org](http://www.sas-chicago.org)  
or contact: Kate Martin (630) 887-7100 or [kmartin@mccrone.com](mailto:kmartin@mccrone.com)  
Phil McKittrick (630) 305-1504 or [ptmckittrick@nalco.com](mailto:ptmckittrick@nalco.com)

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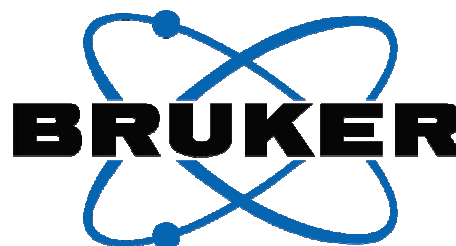


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## Directions:

From I-294 - Exit onto Ogden Avenue west (Rte. 34). Drive 2 miles west, and immediately after Rte. 83, at the second set of lights, turn right onto Pasquinelli Drive. McCrone Associates is on the left hand side, 850 Pasquinelli Dr., 0.6 miles north of Ogden Avenue.

From I-55 – Exit onto Rte. 83 northbound (Kingery Hwy.) Drive 5 miles north to Ogden Avenue. Go west on Ogden (turn right). Then, at the second set of lights after the underpass, turn right onto Pasquinelli Drive. McCrone Associates is on the left hand side, 850 Pasquinelli Dr., 0.6 miles north of Ogden Avenue.

From I-88 (west) – Exit onto Highland Ave. southbound. Left onto 31<sup>st</sup> Street. Follow for 2.8 miles to Route 83 south. Right turn on to Rte. 83 (Kingery Hwy.) follow for 0.8 miles, turn right at the next exit (Oakmont Lane). At the stop sign, turn left onto Pasquinelli Drive. McCrone Associates is 1 block south, on the right.

From I-290 (Chicago) - Take the Eisenhower Expressway (I-290) west about 20 miles. Follow the signs for Roosevelt Road (center lane when at the split in Hillside). Exit onto Roosevelt; drive west about 2 miles. Exit Route 83 south. After 31st Street, turn right at the next exit (Oakmont Lane). At the stop sign, turn left onto Pasquinelli Drive. McCrone Associates is 1 block south, on the right.

## Lodging:

Special rates are available at the Club House Inn about a quarter mile from McCrone. Contact them at (630) 920-2200 and request the McCrone College of Microscopy rate of \$79.00 a night plus tax. Go to [westmont.clubhouseinn.com/location.php](http://westmont.clubhouseinn.com/location.php) for directions.

### Hotels

- 1 Homestead Village  
630-323-9292
- 2 Club House Inn  
630-920-2200
- 3 Holiday Inn  
630-325-6400
- 4 Oak Brooks Hills  
630-850-5555
- 5 Embassy Suites  
630-969-7500
- 6 Marriott  
630-573-8555
- 7 Hyatt/Oak Brook  
630-573-1234
- 8 Best Western  
630-323-1515



## Parking:

Ample free parking is available at The McCrone Group.