



March 2013



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SAS Sponsors Symposia at Pittcon 2013



Join us at [Pittcon 2013](#) for two special SAS organized symposia on Wednesday, March 20: one focusing upon Atomic Spectroscopy organized by Paul Farnsworth and one on Vibrational Spectroscopy organized by Bruce Chase and Joel Harris.

SAS - Vibrational Spectroscopy of Biological Systems: From Fundamental Studies to Clinical Practice arranged by Bruce Chase, University of Delaware and Joel M Harris, University of Utah

Wednesday Morning, March 20

- 8:00 Introductory Remarks - Bruce Chase and Joel M Harris
- 8:05 Electrospun Fibers for Bio-Scaffolds: Vibrational Spectroscopy Meets Biology
Bruce Chase, University of Delaware, John F Rabolt
- 8:40 Infrared and Raman Microspectral Imaging of Human Cells and Tissues for Medical Diagnostics
Max Diem, Northeastern University
- 9:15 Raman Investigations of Nanoscale Biology
Zachary D. Schultz, University of Notre Dame
- 9:50 Theory and Simulation to Establish the Foundation of Vibrational Spectroscopic Imaging for Cancer Pathology
Rohit Bhargava, University of Illinois at Urbana-Champaign, Paul S Carney, Rohith Reddy, Kevin Yeh, Thomas van Dijk, Matthew Schulmerich
- 10:25 Biomedical Research at the National Institutes of Health: A Vibrational Spectroscopist's Perspective
Ira W. Levin, Retired

SAS - Elemental Analysis at the Nano Scale arranged by Paul B Farnsworth, Brigham Young University

Wednesday Afternoon, March 20

- 2:00 Introductory Remarks - Paul B Farnsworth
- 2:05 Signal Processing Considerations for Single Particle Analysis by ICP-MS
Paul B. Farnsworth, Brigham Young University, Dennis Tolley, Alisa Edmund
- 2:40 ICP-MS for Nano- and Micro- Particle Analysis
John W. Olesik, The Ohio State University
- 3:15 X-ray Fluorescence at the Nanoscale
George J. Havrilla, Los Alamos National Laboratory
- 3:50 Studies on Particle or Droplet Plasma Interaction
Detlef Günther, ETH Zurich, Olga Borovinskaya, Sabrina Gschwind, Martin Tanner
- 4:25 Nanometer Scale Laser Plasma Spectrochemistry
Richard E. Russo, Lawrence Berkeley National Laboratory, Vassilia Zorba

Comments to david.butcher@Analytchem.org

SAS Student Poster Awards at SCIX 2013

A competition for SAS students who are presenting authors at SCIX 2013 will be held and recognition for 4 outstanding posters will be given. The judging will take place on Sunday evening. All SAS students should put up their posters on Sunday evening before the opening mixer as well as on their assigned presentation day. All SciX conferees are invited to submit titles. Student SAS members must select the appropriate box on the on-line paper submission form to ensure they are considered. Student awardees will receive a free 1-year SAS membership and a plaque highlighting their achievement. For more information please contact the SAS Office by either email: sasadmin@s-a-s.org or phone: 301-694-8122.



Volker Decker wins 2013 FACSS Charles Mann Award for Applied Raman Spectroscopy

The Federation of Analytical Chemistry and Spectroscopy Societies is pleased to announce the winner of the **2013 Charles Mann Award**. This award is presented to an individual who has demonstrated advancements in the field of Raman spectroscopy at a conference presented by FACSS and/or demonstrated dedication to the advancement of the Raman spectroscopy program at a conference presented by FACSS and/or the ASTM Raman subcommittee.

The 2013 FACSS Charles Mann Awardee for Applied Raman Spectroscopy is **Volker Deckert**, Institute of Physical Chemistry, Jena University, Germany. The Award will be presented at SciX 2013 in Milwaukee, WI. **Volker Deckert** holds a joint position at the Institute of Physical Chemistry, University of Jena, Germany and the Institute of Photonic Technology also in Jena. He obtained his diploma and Ph.D. degree from the University of Würzburg, working on instrumental developments for Raman spectroscopy. As a postdoc he worked on non-linear and time-resolved laser spectroscopy at the University of Tokyo and KAST, in Kawasaki.



During his tenure at ETH Zurich, he came into contact with near-field optical techniques and was among the first to combine this high spatial resolution technique with Raman spectroscopy. A major breakthrough was the development of tip-enhanced Raman spectroscopy (TERS), a combination of scanning probe microscopy with plasmonic probes. This technique brings together the sensitivity of surface-enhanced Raman scattering and the high lateral resolution of near-field optics, consequently providing a tool to investigate phenomena much beyond the diffraction limit of conventional optics. Since then, his goal has been to push the lateral resolution of Raman spectroscopy into smaller and smaller dimensions. In particular, his interest is to apply the resolution capabilities of TERS towards nanoscale studies of bio molecules and recently to the investigation of fundamental dynamic processes of surface reactions.

Previous Charles Mann Award Winners

2002 Fran Adar
2003 Michael J. Pelletier
2004 Michael Carrabba
2005 D. Bruce Chase
2006 Michael Morris
2007 Neil Overall
2008 Ian R. Lewis
2009 Pavel Matousek
2010 Richard L. McCreery
2011 H. G. M Edwards
2012 Don Pivonka

The FACSS Charles Mann Award will be presented at the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) annual meeting, SciX – The Great Scientific Exchange, to be held in Milwaukee, WI, September 29th to October 4th, 2013, at the Hyatt Regency Milwaukee Hotel and Delta Center. Professor Deckert will present the FACSS Charles Mann Award Plenary Lecture in Analytical Raman Spectroscopy, and a separate half-day award symposium of five invited presentations will be held following his lecture at this conference.

Prior to SciX, Professor Deckert will talk about his work in the SciX awardee's podcast series, organized in conjunction with Spectroscopy Magazine. The podcast will be announced to viewers in the **February 12** issue of the Spectroscopy newsletter and will be available for viewing at <http://www.scixconference.org/scix-home/podcasts-spectroscopyonline>.

FACSS Student Award and Tomas A. Hirschfeld Scholar Award

FACSS encourages the participation of students at the SciX conference with its award program. The FACSS Student and Tomas A. Hirschfeld Scholar student awards are presented to outstanding graduate students who wish to attend SciX and present their work at the SciX conference. These awards require submission of an application at the SciX conference website. The FACSS Student award was formalized as a permanent standing award at the FACSS meeting in the fall of 1987. The award had existed prior to this meeting but until 1987 was funded based on yearly approval from the Governing Board.

The Hirschfeld Scholar Student award was found in 1987 to honor the memory of Tomas Hirschfeld and his many contributions to spectroscopy. The award was proposed by Professor Alex Scheeline, and subsequently the minutes of the March 1987 meeting record that "FACSS shall support an annual award program, as the result of which, up to four graduate students will be designated as Hirschfeld Scholars, with preference for diverse research specialties among the students."

Distinguished recipients of these awards include Professor Jonathan Sweedler, University of Illinois and Editor in Chief of *Analytical Chemistry*; Dr. Pat Treado, founder of Chemimage; Professor Renato Zenobi, ETH Zurich; Dr. Jeremy Shaver of Eigenvector; Professor Dana Spence, Michigan State; Professor Christian Pellerin, Université de Montréal; and many others.

The nomination deadline for SciX 2013 is April 30th. For the application form and more information please visit www.scixconference.org/awards.

FACSS Poster Award

FACSS Awards poster prizes to students during the SciX Conference poster sessions Monday through Thursday. All student posters are eligible, and are reviewed by a panel of experts appointed by the 2014 Program Chair. Posters are judged based on the clarity of the poster, quality of the science presented, and the knowledge of the presenter. The top 3 posters in each session are awarded cash prizes. Students may submit their request for posters at the Submit a Paper page at the SciX conference web site until July 31.

FACSS Innovation Awards

The FACSS Innovations Awards were initiated as part of the 2011 FACSS meeting at the suggestion of Prof. Pavel Matousek (Program Chair) and approved by the FACSS Governing Board. These awards are given for the most innovative and outstanding new research advancements debuted orally at the SciX Conference. All program areas are included. Only research findings presented for the first time in the public domain qualify for entry (work based on submitted papers not yet published electronically or in print at the time of abstract submission qualifies too). Only papers submitted by their authors during the SciX conference paper submission process will be considered for these awards. Finalists are selected for presentations by a panel of judges and all finalists present their work at a special plenary session at the SciX conference. Award winners are selected by the judging panel based on the quality of the work presented, responses provided to the judges' questions after the plenary presentation, and responses to audience questions.

Work may be submitted at the Submit a Paper page on the SciX website. Please check the 'FACSS Innovation Awards for oral presentation' button below the abstract submission to be considered for this award. Nominees will be contacted by e-mail after the submission deadline to be part of the special Thursday afternoon Innovation Award session.

Each award includes:

- A total cash prize of \$1500
- A plaque for each author
- A publicity campaign based on the awardees and their work

Call for Nominations for the ABB Sponsored Bomem-Michelson Award

This award is dedicated to the memory of Professor A. A. Michelson, developer of the Michelson interferometer. ABB sponsors the award to honor scientists who have advanced the technique(s) of vibrational, molecular, Raman, or electronic spectroscopy. Contributions may be theoretical, experimental, or both. The recipient must be actively working and at least 37 years of age. To ensure that the award is based on an independent evaluation of the candidate's achievements, the selection is made by a committee chosen by the Coblentz Society.

The Award is presented each year at the Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, and consists of a crystal symbol of the Bomem–Michelson award and an honorarium. The ABB sponsored Bomem-Michelson Award Symposium is held in honor of the awardee and immediately follows the presentation.

Nominations for the 2014 ABB sponsored Bomem-Michelson Award should include a resume of the candidates' career as well as the special research achievements that make the an eligible nominee for the ABB sponsored Bomem–Michelson Award. The nominating letter and supporting letters should be sent to the chair of the Bomem-Michelson selection committee. Nominations are accepted between 1 February and 1 May. Files on nominees will be kept active for three years, after which the candidate must either be renominated with an updated file or the file will be closed. Nomination packages should be sent to nominations@coblentz.org.



Call for Nominations for the Coblentz Award

The Coblentz Award is presented annually to an outstanding young molecular spectroscopist under the age of 40. This award is the Society's original award (first awarded in 1964), and is the complement of the Craver Award that recognizes young spectroscopists for efforts in applied analytical vibrational spectroscopy. The candidate must be under the age of 40 on January 1 of the year of the award. The award has traditionally included an honorarium, a plaque with a prism from the periscope of a World War II Navy submarine, and a travel allowance.

Nominations for 2014 must include a detailed description of the nominee's accomplishments, a curriculum vitae or resume, and minimum of three supporting letters. Nominations for 2014 close on July 15, 2013. Files of candidates will be kept active for 3 years or until the age of eligibility is exceeded. Annual updates of candidate files are encouraged and will be solicited from the nomination source by the award's committee chair.



Please send nomination packages (email is preferred) to:

Professor Pavel Matousek
Central Laser Facility
Rutherford Appleton Laboratory
Oxfordshire OX11 0QX
United Kingdom
email: Pavel.Matousek@stfc.ac.uk

Call for Nominations for the Craver Award

The Craver Award is presented annually to an outstanding young molecular spectroscopist whose efforts are in the area of applied analytical vibrational spectroscopy. The candidate must be under the age of 45 on January 1 of the year of the award. The work may include any aspect of infrared (NIR, MIR, or Far), and/or THz, and/or Raman spectroscopy in applied analytical vibrational spectroscopy. The nominees may come from an academic, government lab, or industrial backgrounds.

In 2006, the Coblenz Society created an award to recognize the efforts of young professional spectroscopists that have made significant contributions in applied analytical vibrational spectroscopy. The Society has named this award for Clara D. Craver in recognition of her pioneering efforts in promoting the practice of infrared vibrational spectroscopy and her many years of service to the Coblenz Society. Further, the Craver Award is the Society's complement of its prestigious Coblenz Award that recognizes young spectroscopists for efforts in fundamental aspects of vibrational spectroscopy. The first award was presented at FACSS in Memphis in 2007.

The award comprises an honorarium, an engraved crystal award, and a travel allowance.

The Coblenz Society solicits nominations for the 2014 Craver Award in recognition of young investigators in applied analytical vibrational spectroscopy. Nominations will be accepted between March 30, 2013 and August 30, 2013. Nomination packages should be sent to nominations@coblenz.org.



Call for Nominations for the Ellis R. Lippincott Award

The Ellis R. Lippincott Award is presented annually to an outstanding vibrational spectroscopist. It is co-sponsored by the Coblenz Society, the Society for Applied Spectroscopy, and the Optical Society of America. Established in 1975, the award is presented in memory of Professor Ellis R. Lippincott to scientists who have made significant contributions to vibrational spectroscopy as judged by their influence on other scientists.

Details on the nomination process and timeline are available at www.osa.org and through the Lippincott Award Coordinator at awards@osa.org.