

SAS SPECTRUM eNEWS

Call for Volunteers

The Society for Applied Spectroscopy functions through the efforts of its volunteers. Whether it is the website, the newsletter, or the local sections, all are run by volunteers. We need you to volunteer. At this time of the year, we need to make committee appointments for those important groups that make the Society function and benefit all of our members. For those of you who have stepped up to volunteer already this year, we thank you! Please note that none of the stories in this Newsletter would be possible without volunteer efforts. If you are interested in helping your Society by volunteering, please contact Ellen Miseo (ellen.miseo@gmail.com) or Bonnie Saylor (exdir@s-a-s.org) and we can discuss the open positions.

SAS Social Events at SciX: SAS Sunday Outing

This year, the pre-conference Member Event was held at the Union Station Brewery and on the Providence River. The warm and sunny weather made for a beautiful cruise, and the lunch and drinks at the brewery provided a venue for great conversation. SAS Office Manager Stephanie Locco organized the event.

Student Event

The SAS Student Event was held at the GPub, an underground bar with a great vibe—a mix of modern and retro elements. The students enjoyed the food, pool and conversation with each other. Everyone there congratulated Chad Atkins, outgoing SAS Student Representative, on his hard work in organizing these events at Pittcon and SciX over the past two years.



The Student Event was great for students to get to know each other as well as network and interact with members of the SAS Executive Committee like SAS Parliamentarian Ben Manard (third from left). Image courtesy Malik Bobba.



The river cruise (top) was the teaser for the networking that happened on shore (bottom).



Representatives of the SAS corporate sponsors.

Wine and Cheese

This year, SAS Past President Ian Lewis presided over the Wine and Cheese in place of our current President Diane Parry (Diane Parry was not able to attend due to health reasons. We wish Diane a full recovery.). The event started with the usual hors d'oeuvres and drinks, introduction to officers, and the award ceremony. It concluded with a new event, a fundraiser for the 2018 Strategic Fund.

After introductory remarks, Ian thanked our generous corporate sponsors, Agilent Technologies, Andor, Avantes, BaySpec, B&W Tek, Horiba Scientific, Kaiser Optical Systems, Ocean Optics, Renishaw, and Thermo Scientific, Advantest, Art Photonics, Metrohm USA, Pike Technologies, Princeton Instruments, Shimadzu Scientific Instruments, Inc., Bio Tools, Inc., High Purity Standards, Inc., JASCO Analytical Instruments, Inc., and Meinhard Glass Products. Introductions of current Society officers were made (all of whom who volunteer their time to make the Society work for you!) Treasurer Bruce Chase, Secretary Gloria Story, Newsletter Editor Fred Haibach, Regional/Technical/Student Affairs Coordinator Rob Lascola, Web Editor Anna Donnell, Membership Coordinator Ingeborg Iping Petterson, Parliamentarian Ben Manard, Student Representative Chad Atkins, Journal Editor-in-Chief Mike Blades, and Journal Editor Peter Griffiths. Greg Klunder was welcomed as the next President Elect and David Bryce as the next Student Representative.



Ian Lewis' beard survives the Wine and Cheese.



Contributing was part of the fun!

Awards were presented to the following recipients: Jay Kitt for the Barbara Stull Award; Eric Brauns for the William F. Meggers Award; New York Section for the William J. Poehlman Award; R. Kenneth Marcus for the Lester W. Strock Award; Thomas Bocklitz for the Bruce Kowalski Award; Gloria Story for the Distinguished Service Award; Ira Levin for the Emeritus Membership Award; Alex Scheeline and Richard Palmer for the Honorary Membership Award; Richard Palmer, Katherine Bakeev, Rohit Bhargava, Roy Goodacre, David Hahn, Takeshi Hasegawa, Paul Pudney, Colin Bain, David Cremers, Richard Dluhy, and Detlef Günther as Fellows; and Chad Atkins for outstanding service as Student Representative. The office staff, Bonnie Saylor and Stephanie Iocco, received praise for their continuing coordination of volunteer efforts and making the Society run smoothly.

The event concluded with the fundraiser for the 2018 Strategic Fund, which has been profiled in previous newsletters. The audience was asked to contribute to for or against shaving Ian Lewis's beard. It was a tight race and it looked like we were going to see the last of the beard until, at the very last minute, Sean Wang of BW Tek announced a \$2000 donation to keep the beard!!!! Maybe next year. A total of \$4,605 was raised in support of the fund.

Obituary: Joseph Caruso

SAS mourns the passing of Joseph A. Caruso. Dr. Caruso was a longtime member of the Society. He served as President of SAS in 1998 and was awarded the SAS Distinguished Service Award in 2006 for his many contributions to the Society. His smile and hugs were welcome additions to all SAS meetings. Click here to read [Dr. Caruso's obituary](#).

The Joseph A. Caruso Endowed Chemistry Scholarship Fund has been established in his honor. Checks may be made out to UC Foundation, Joseph A Caruso Endowed Chemistry Scholarship in the memo line and mailed to College of Arts and Science-Development, P.O. Box 210367, Cincinnati, OH 45221. Donations may also be made online at uc.edu/give, include the Joseph A Caruso Endowed Chemistry Scholarship in the description. Sympathy may be expressed at www.springgrove.org.



Obituary: DeLyle Eastwood

We are saddened to report the passing of DeLyle Eastwood, Ph.D. at the age of 82 on October 30, 2015. She was a long-time supporter of the SAS and the SciX/FACSS conferences. Dr. Eastwood was nationally recognized for her contributions to fluorescence spectroscopy. Her generosity to individuals and the Society will be missed. Click here for the [full obituary](#).

A physical chemist, known for her pioneering work in fluorescence spectroscopy, DeLyle was a mentor and pioneer for women working in science. Over the years, she did work for the Air Force Institute of Technology, the EPA, UNLV, the U.S. Army Corps of Engineers, the USDA, University of South Carolina, Harvard University and the University of Idaho. She coauthored hundreds of papers and was known as an expert in her field, serving as a technical expert with national responsibilities for Superfund and DOD environmental programs and groundwater monitoring for hazardous and toxic waste.



DeLyle Eastwood at the University of South Carolina. Courtesy of the Myrick Group.

She was most proud of the 1978 DOT Silver Medal for Oil Spill Identification, which enabled the United States Coast Guard to better identify those responsible for oil spills in open water. She also was a fellow in ASTM international and active member in the Society of Photo-Optical Instrumentation Engineers (SPIE) as well as the American Chemical Society.

No public services are planned. The family suggests memorial contributions to the National Organization for Women <http://now.org/>, of which DeLyle was an early member, the Michael J. Fox Foundation for Parkinson's Research <https://www.michaeljfox.org/> or the Parkinson's Disease Foundation <http://www.pdff.org/>. Online condolences may be sent to www.kimballfuneralhome.com.

Contributed by Dale Perry

Welcome to TWO South Carolina Student Chapters

The objective of the Society for Applied Spectroscopy is to advance and disseminate knowledge and information concerning the art and science of spectroscopy and other allied sciences. The organization works hard to provide quality benefits to its membership and part of its offerings is support for regional, technical, and ([student sections](#)). The value of these sections is often overlooked and the Society is glad to profile its two newest student sections that were officially granted active status within the last calendar year.

Forming a student chapter requires submission of a constitution document, a letter of intent, and a letter of endorsement from a proposed Faculty advisor. If you are interested in forming a chapter, please contact the SAS Office (sasadmin@s-a-s.org) to express your intent and for forms.

The Clemson University student chapter submitted these documents in late 2014 and the SAS Executive Committee unanimously voted in favor of the chapter's admission in early 2015. When a new chapter is introduced, it is the responsibility of the chapter members to assign the positions of Chair, Chair-Elect, Treasurer, and Secretary.

Clemson University Student Chapter

Founding Chair: Lynn Zhang

Lynn Zhang was responsible for spearheading the creation of a SAS Student Chapter at Clemson University. Her desire to start a chapter developed from conversations with Rob Lascola, chair of Regional, Technical, and Student Sections on the SAS Executive Committee.

She is an engineer by training, having received her Bachelor of Engineering degree (Chemical Engineering) from Shenyang University of Chemical Technology in China. She then shifted into natural science research and obtained a Master of Science degree (Chemistry) at Murray State University before starting her Ph.D. at Clemson University under the supervision of Professor Kenneth Marcus (2015 SAS Lester W. Strock Award Winner). Her introduction to the Society came from interacting with the SAS booth at Pittcon 2012 in Orlando, Florida, after which she felt compelled to join online upon her return home. She has since attended numerous SAS functions at SciX and Pittcon meetings and has recently started serving as a member of the SAS Website Committee.

Chair-Elect: Daniel Willett

Daniel Willett completed his Bachelor of Science degree (Chemistry) at Murray State University. He is currently working on his Ph.D. in analytical chemistry under the supervision of Professor George Chumanov at Clemson University, where his main focus is localized surface plasmon resonance (LSPR) instrumentation development as well as research involving silver nanoparticle synthesis and SERS applications.

Daniel joined the SAS during Pittcon 2014 in Chicago, Illinois, after recommendation from an SAS student member. He has attended multiple SAS functions over the years, including the student events at both Pittcon and SciX in 2014 and 2015.

Treasurer and Secretary: Liuwei (Jerry) Jiang and Marissa Pierson

Liuwei (Jerry) Jiang completed his Bachelor of Science degree (Pharmaceutical Sciences) at Guangdong Pharmaceutical University in China in 2010. He has been a graduate student at Clemson University since 2011, having worked on the synthesis and screening of new classes of aminoglycoside-peptide conjugates for lead drug identification (with Professor Dev P. Arya) and the development of novel polymer based liquid-chromatography stationary phases for protein separations (with Professor Kenneth Marcus). He joined the Society in January 2015 under the recommendation of Lynn Zhang.



Clemson Student Chapter at Bourbon Cowboy, SAS Student Event (Pittcon 2015). From L-R: Liuwei Jiang, Lynn Zhang, Marissa Pierson, Daniel Willett

Marissa Pierson attended Indiana University where she received her Bachelor of Science degree (Chemistry) in 2012. She was fortunate enough to obtain undergraduate research experience with organic synthesis under the supervision of Dr. Carl LeBlond before working on protein chromatography in Professor Kenneth Marcus' group at Clemson University.

The Clemson University student chapter held their first event in April 2015, which was a poster session for anyone involved in research incorporating spectroscopy. The event was a success as sixteen abstracts were presented and substantial cash prizes were offered for the top three posters as determined by a panel of judges. We wish the chapter continued success.



Clemson University SAS Student Poster Session. From L-R: Liuwei Jiang, Daniel Willett, Marissa Pierson, George Chumanov (judge), Robert Lascola (judge) Luiz G. Jacobssohn (judge), Lynn Zhang

The other student chapter to join the Society in 2015 is from the University of South Carolina (USC). They also submitted their documentation in late 2014 and the SAS Executive Committee unanimously voted in favor of the chapter's admission in early 2015. All chapter officers listed below (Brianna, Stephanie, Alicia, and Shawna) played a central role in the founding of the USC SAS student chapter.

University of South Carolina Student Chapter

Founding Chair: Brianna Cassidy
Current Chair: Christina Joseph

Brianna Cassidy graduated from Murray State University with her Bachelor of Science degree (Chemistry major, Art History, and Studio Art minors) in 2011. As an undergraduate, she carried out environmental chemistry research under the supervision of Professor Bommanan Loganathan and presented her research regarding environmental pollutants at international chemistry meetings in China and Belgium. Later in 2011, Brianna began her graduate studies at the University of South Carolina and joined Professor Stephen Morgan's analytical laboratory. Her research projects include cultural heritage preservation and conservation as well as forensic analysis of bloodstains.

Brianna joined the SAS in December of 2014 with encouragement from Shawna Tazik (USC SAS Student Chapter Secretary) to begin the first USC student chapter of SAS. Since joining, Brianna participated in the USC SAS Student Chapter poster competition held in February 2015 and attended the SAS student events at Pittcon 2015 and SciX 2015.

Founding Chair-Elect: Stephanie DeJong
Current Chair-Elect: Hannah Liberatore

Stephanie DeJong attended Trinity Christian College where she earned her Bachelor of Arts degree (Chemistry) in 2011. During the summers during her undergraduate degree, she participated in research programs at Washington State University and Brookhaven National Laboratory. Both experiences focused on atmospheric chemistry, the former on modeling and the latter on instrumentation, data collection, and data processing. In 2011, she joined Professor Michael Myrick's group at the University of South Carolina to pursue her Ph.D. in analytical chemistry. Her research has focused on applying multivariate calibration and spectral processing in infrared spectroscopy, primarily with respect to forensic samples such as detecting blood on fabrics. Stephanie joined the SAS in 2012 when free student memberships were offered at SciX, and has since attended the student events and the Wine & Cheese socials at SciX 2012-2015.

Founding Treasurer: Alicia Strange (Fessler)
Current Treasurer: Molly Burnip

Alicia Strange earned her Bachelor of Science degree (Chemistry) at East Carolina University in 2008. During her degree, she worked in Professor Allison Danell's research laboratory investigating the effects of zinc-peptide complexes on the deposition of zinc in an electrospray ionization mass spectrometer. She continued her education by completing a Master of Science degree (Chemistry) in 2010 at the University of Manchester in Manchester, UK, where she studied the detection and mapping of biological tissues using secondary ionization mass spectrometry. Alicia worked as an analytical scientist for Metrics Inc., a contract analytical laboratory in Greenville, NC, for ten months before deciding to return to graduate school to pursue a Ph.D. in analytical chemistry. She began her program at the University of South Carolina in the fall of 2011 and joined Professor S. Michael Angel's research group. Her current research focus is to investigate standoff Raman measurements using a spatial heterodyne Raman spectrometer for planetary exploration and the detection of high explosives. In November 2014, Alicia joined SAS to participate in the founding of a SAS student chapter at USC. Since she has been a member, she has attended the SAS student event at both Pittcon 2015 and SciX 2015.

Founding Secretary: Shawna Tazik
Current Secretary: Cameron Rekully

Shawna attended Mississippi State University where she earned a Bachelor of Science degree (Chemistry) in 2011. During her undergraduate degree, she conducted educational chemistry research under Professor Todd Misna, along with internships at the Center for Psychiatric Neuroscience (University of Mississippi Medical Center) and also in the Environmental Chemistry division of the U.S. Army Engineer Research and Development Center. In the fall of 2011, Shawna began graduate school at the University of South Carolina and joined Professor Michael Myrick's research group in pursuit of a Ph.D. in analytical chemistry. Her research focus is on the application of spectroscopic imaging, image analysis, and chemometrics to the taxonomic classification of phytoplankton in the ocean. Shawna has been a member of the SAS since attending her first SciX conference in 2012 and has since attended four consecutive SciX conferences, including all events sponsored by the Society.

Latest and Upcoming Events

The USC SAS student chapter held an event in March 2015 during the Department of Chemistry and Biochemistry's Senior Graduate Student Achievement and Poster Competition. With the assistance of the competition organizers, the chapter recruited professors to judge all spectroscopy-related submissions and recognize the best poster presentation with a \$50 award. The event allowed the officers to both encourage spectroscopy research and create awareness of their chapter. We wish them continued success.



From L-R: Stephanie DeJong, Brianna Cassidy, Shawna Tazik, and Alicia Strange (Fessler)

As Brianna, Stephanie, Alicia, and Shawna approach graduation, the chapter selected Christina Joseph, Hannah Liberatore, Molly Burnip, and Cameron Rekully to serve as new leadership.

Contributed by Student Representative Chad Atkins and the University of South Carolina and Clemson Chapters

NESAS Dinner Meeting on December 3rd

The meeting on Thursday December 3 will feature Brendan Connors, Senior Scientist at SciAps Inc. Please RSVP to Mary Kate Donais (MDonais@Anselm.edu) as soon as possible.

Contributed by Mary Kate Donais

CRC Press / Taylor and Francis offers Discounts to SAS Members

As a Valued Member of SAS, CRC Press/Taylor & Francis Group in Partnership with the SAS is Extending a 40% DISCOUNT on All Spectroscopy Books to All SAS Members.

Visit www.CRCPress.com and enter Promo Code SAS40 at checkout to SAVE 40% on your entire purchase plus get free shipping. Offer ends 12/31/2015

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Telephone: 301-694-8122
FAX: 301-694-6860

