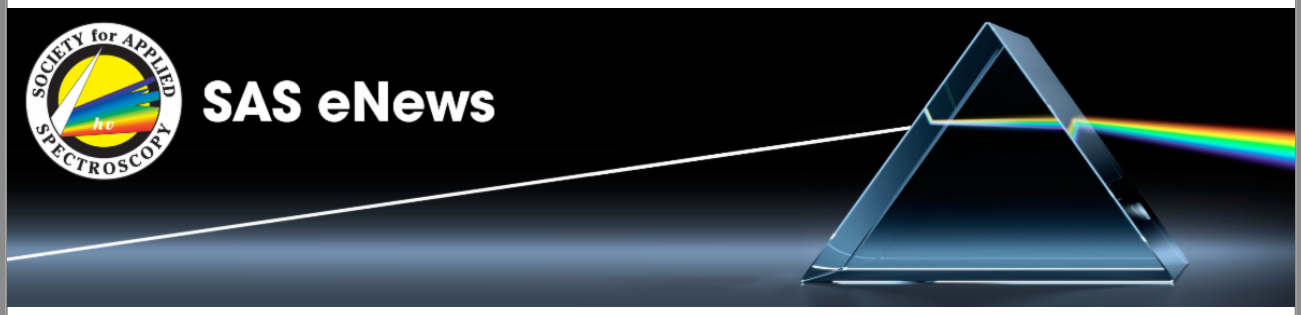
November 2022



Eastern Analytical Symposium 14-16 November 2022

EAS is rapidly approaching, and SAS members will be helping to make this another great in-person meeting for our readership. Several SAS members are helping to bring quality short courses to attendees, including:

- The Importance of Microscopy in Microspectroscopy (https://eas.org/?page_id=8416)
- An Introduction to Quantitative Spectroscopic Analysis (https://eas.org/?page_id=8423)
- Problems with FT-IR Spectra and How to Avoid Them (https://eas.org/?page_id=6512)
- Portable Spectroscopy and Its Application in Forensic Science (https://eas.org/?page_id=5165)
- Process Analytical Technology: Out of the Lab and into the Line (https://eas.org/?page_id=5158)

For those taking spectroscopy short courses, a sandbox will be available too!

Several sessions have been assembled by SAS Members, including:

- Forensics on the Go: Portable Instruments in the Field
- Applied Data Science: Expanding the Chemometrics Toolbox
- Challenges of Counterfeit Detection in Pharmaceutical Industry
- Food Spectroscopy: It's Not Just Near Infrared
- Handheld Instrumentation and Chemometrics as Diverse Analytical Tools
- Solving your PAT Problems with Technology
- Optical Technologies in the Fight Against Disease
- 1+1=3: Applications of Automated Particle Imaging Combined with Raman Spectroscopy

Additional sessions include honoring awarded SAS members Rohit Bhargava and Richard Crocombe.

- New York/New Jersey Sections of the Society for Applied Spectroscopy Gold Medal Award Honoring: Rohit Bhargava, University of Illinois-Urbana-Champaign
- EAS Award for Outstanding Achievements in Vibrational Spectroscopy Honoring Richard Crocombe, Crocombe Spectroscopic Consulting More details leading up to the conference can be found on the EAS website: https://eas.org/

Next-Generation Spectroscopic Technologies XV Call for Papers

The Committee and Chairs of the Next-Generation Spectroscopic Technologies Conference at SPIE.DCS happily announce that after a year's hiatus, the NGST Conference is currently soliciting for abstracts for the upcoming 2023 meeting in Orlando, Florida, from 30 April–4 May. The overall emphasis in this conference is on advanced technologies for ectroscopic instrumentation, particularly for miniature, portable, and wearable instruments, but also including novel spectroscopic sources used in the laboratory and process applications (e.g., QCL, ICL, supercontinuum). The scope focuses on the optical region: UV–Vis, infrared, near-infrared, terahertz, and Raman molecular techniques. However, it also includes advances enabling miniature and portable spectrometers across the electromagnetic spectrum, including X-ray fluorescence, laser induced fluorescence, laser induced breakdown spectroscopy (LIBS), nuclear magnetic resonance and mass spectrometry.

The conference includes papers describing breakthrough, novel, recently-introduced, and commercial instrumentation; also, the rapidly emerging fields of portable and handheld hyperspectral imaging, multispectral sensors incorporated in consumer goods and wearables, smartphone spectroscopy, citizen spectroscopy, with cloud-based collection and processing of data from those instruments.

Authors will be notified of their acceptance by 16 January 2023. **Authors are encouraged to submit an abstract as soon as possible: https://spie.org/dcs23/conferencedetails/next-generation-spectroscopic-**

technologies

Questions about the Conference or possible topics to submit can be directed to the Conference Chairs, Richard Crocombe (racrocombe@gmail.com) or Luisa Profeta (luisaprofeta@gmail.com).

A Spectroscopist Student View of the ACS Fall 2022 Meeting (Chicago, Illinois)

I am a forensic science student with a concentration on the capabilities and applications of vibrational spectroscopy. As a fourth year PhD student, I have had the pleasure of going to numerous scientific conferences. Conferences are one of the major hubs for scientific networking and informational exchange. I have attended SciX, the American Academy of Forensic Sciences (AAFS), Northeastern Association of Forensic Scientists (NEAFS), Eastern Analytical Symposium (EAS), etc. However, there is one major scientific conference that I had not ever attended, the American Chemical Society (ACS) conference.

This year I applied for a travel grant, the ACS Bridge Travel Grant, which I was awarded allowing me to attend the conference. The Fall 2022 ACS meeting was held in Chicago and was one of the largest conferences that I have ever attended. Despite going to conferences for nine years at this point in my educational career, I found myself overwhelmed. The events were held across four different buildings, required shuttles to get to different venues, and the program was so filled that many events that overlapped.

In previous conferences attended, I do not usually have issue finding scientific talks are posters to attend. However, this was not the case at ACS. I quickly realized that being an analytical vibrational spectroscopist with a primary interest in forensic science, is a very specific niche. One that is not commonplace at ACS. As such there were not many scientific talks that I wished to attend. That is not to say that the conference was not beneficial to me, it was just different than my previous experiences that I would consider my "normal prevue" of technical sessions. I have learned that when the scientific sessions do not hold your interest, find every social session you can and network your heart out.

ACS holds many networking events/receptions throughout the week. Most of them are on the first evening and if you plan correctly can attend multiple receptions back-to-back (which as a grad student meant free food in an expensive city). I was able to meet various students and professionals from across the United States. While the number of spectroscopists there were not as large in number as other conferences, the scientific community is very interconnected. Thus, as I described my research focuses, I was given many third-party connections and individuals to reach out to later. The moral of this summary is, even if a conference is a bit overwhelming and the talks are not quite your interest, you can still make the most out of the conference! I was able to obtain and give out several business cards to possible connections and made introductions to analytical chemists in different fields than my own. So, never squander an opportunity for conversation as you never know where it may lead.

Contributed by Alexis Weber, PhD Candidate, SUNY

Congratulations to SAS Members Benjamin Bernard and Georg Ramer

Georg and Benjamin were recently named to the "Top 40 Under 40" by *The Analytical Scientist* for their contributions to science to date and their impact they are anticipated to be making in the many remaining years in their respective careers. SAS wishes to thank you all for making spectroscopy shine with your recognition! To see the full list: https://theanalyticalscientist.com/power-list/2022

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For more information, please contact James Carriere at James.Carriere@coherent.com.

Do you have something spectroscopy-related you want to discuss in the newsletter? Or something that will help our membership such as career tips or application tips? Please let us know by emailing luisaprofeta@gmail.com.

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