

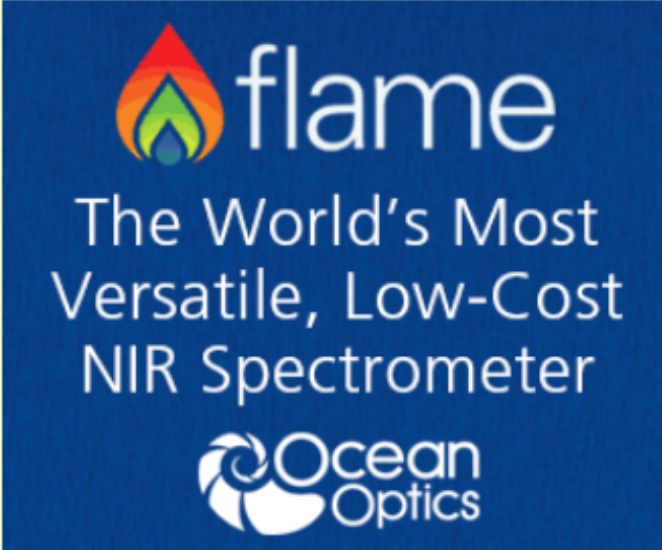
SAS SPECTRUM eNEWS

Accessing Applied Spectroscopy Online

The Society for Applied Spectroscopy has been using a new online provider for the journal Applied Spectroscopy as of January 1, 2016. This transition from Ingenta Connect to Sage will provide you, our readers, with a more intuitive and user friendly experience. Members can access Applied Spectroscopy content by logging in to the SAS website (www.s-a-s.org) as you have always done with your user name and password and going to the journal tab (please contact the SAS office if you are unsure of your login information). From the journal landing page, you will find a link to click on that will take you to the Applied Spectroscopy article list. If you are properly logged in to the SAS site, you will have free access to issues of the journal back to 1948.

We are hoping for a seamless transition, however, as is the case with all such initiatives, there may be some hiccups. We appreciate your patience and understanding as we continue to develop the Sage platform. If you encounter any difficulties, please don't hesitate to call us at 301-694-8122 or email us at: sasadmin@s-a-s.org.

Contributed by Bonnie Saylor, SAS Executive Director



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The World's Most Versatile, Low-Cost NIR Spectrometer
Ocean Optics

Student Profile: Nil Tandogan, PhD Candidate

Nil received her Bachelor of Science degree in Biology and Chemical Engineering at Middle East Technical University (Turkey) in 2010. During her undergraduate years, she volunteered as a research assistant in a cancer biology laboratory and completed an internship in a mycology laboratory at the University of Giessen (Germany). She is passionate about bringing engineering solutions to biological problems and wanted to combine her knowledge in both disciplines through a graduate school degree. In 2011, she joined the PhD program in Chemical Engineering at Northeastern University under the supervision of Prof. Edgar D. Goluch. Her research focuses on developing novel submicro- to nanofluidic platforms to isolate, cultivate, and identify bacterial cells from the environment. The devices could be coupled with Raman Spectroscopy and electrochemical sensors to identify and detect molecules that are secreted by bacterial cells starting from a single cell level. She is also working on coupling lab-on-a-chip platforms to surface plasmon resonance imaging (SPRI) to study the effect of antimicrobial agents on bacterial cells and on biofilms.



Nil learned about the Society via her advisor and joined during Pittcon 2014 (Chicago), where she met several SAS student members and staff during the SAS student event at Buddy Guy's Legends. She has since attended the SAS student event at Pittcon 2015 (New Orleans), along with all SAS-sponsored events at SciX 2015 (Providence). She appreciates the existence of such events, as it helps meet fellow students and provide a unique experience; she played pool for the first time ever at Buddy Guy's!

In her personal life, she likes to travel and leads an active lifestyle. Nil exercises three-four times a week, either running or doing yoga. She recently ran the 2015 Boston Athletic Association Half Marathon.

When asked how she's benefited from being a student member for the last two years, Nil said that "the SAS is a very welcoming community. Everyone is so approachable that it's very easy to start a conversation. Thanks to the SAS, I now have many friends whom I met through the student events and look forward to seeing in the future!"

Nil is completing her graduate studies in May 2016 and is starting to look for opportunities in industry. She believes her SAS membership will play a significant role in helping her secure a position through connections made at events. We wish her all the best in the future!

Contributed by Chad Atkins, Student Representative 2014-2015

SAS-Sponsored Session on Handheld Analyzers at Pittcon 2016

The field of handheld analyzers has seen rapid and extraordinary growth over the past ten years, with commercial instruments available covering both elemental and molecular spectroscopy, from LIBS and mass spectrometry to Raman and mid-infrared spectroscopy. Each generation of these instruments is smaller, lighter and yet more powerful than their predecessors. The technology has progressed so rapidly that 2015 saw the first handheld analyzer incorporating complementary spectroscopic technologies—a combined Raman and mid-infrared instrument—a trend that is sure to continue.

The symposium brings together the developers of these instruments, with a focus not only on the hardware, but also on the libraries and algorithms, field applications, and end-user requirements and will be held on Thursday Morning at 8:30 AM in Room B311. Below is the current list of titles and speakers.

- Handheld Laser-Induced Breakdown Spectroscopic Instruments AMY JO RAY BAUER, TSI, Incorporated
- Chemometrics in Action: Moving the Lab to the Field SUZANNE SCHREYER, Thermo Fisher Scientific, Michael Hargreaves
- Mass Spectrometry in Miniature CHRISTOPHER BROWN, 908 Devices
- Next Generation Portable Spectrometers: Spectroscopy Solutions Wherever You Want Them KATHERINE A BAKEEV, B&W Tek, Inc, Ken Li, Sean Wang, Jing Li, Jack Zhou
- High Sensitivity Measurements in Liquids Using Mid-IR Lasers DON KUEHL, RedShift Systems, Rick Sharp, Eugene Ma, Jinghong Kim, Chip Marshall

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