



Society for Analytical Chemists of Pittsburgh Spectroscopy Society of Pittsburgh



November Meeting

Wednesday, November 14, 2018



in Pittsburgh

5:30 PM Social Hour — Power Center Ballroom
5:30 PM SSP Technology Forum – Power Center Ballroom (note show times below)
6:30 PM Dinner – Power Center Ballroom
Student Affiliate Meeting – Shepperson Suite
7:45 PM Business Meeting – Power Center Ballroom
8:00 PM Technical Program – Power Center Ballroom

Deadline for Dinner Reservations: Monday, November 5, 2018

SSP TECHNOLOGY FORUM



**Dr. Neal Dando, The Spectroscopy Society of Pittsburgh
“Starhopping – Finding Your Way in the Night Sky” and
“Our Solar System – What You May Not Know”**

Our planetarium program allows participants to observe the sky, planets, various constellations, individual stars and our solar system from any point on the surface of the earth or in space, at any year or time of day and at any rate of elapsing time. We will use these capabilities to explore the night sky and our solar system from different perspectives and show how relatively obtuse astronomy concepts can be made tangible by the innovative use of the planetarium software. Two 20-minute presentations will commence at 5:30 and 5:55. Several chairs will be available inside the planetarium for folks who cannot sit on the floor. Please be prompt since dome entry will not be allowed once the shows commence.

Our portable planetarium was purchased by the Pittsburgh Conference for the Spectroscopy Society of Pittsburgh and the Society of Analytical Chemists of Pittsburgh to use in our outreach programs.

BIOGRAPHY: Neal Dando is a member of the Spectroscopy Society of Pittsburgh (SSP), the Society of Analytical Chemistry of Pittsburgh and the Pittsburgh Conference (Pittcon) Organizing Committee. Neal is also the 2018-19 Chair of the SSP Pittcon Planetarium Committee, Chair-elect of the SSP and President-elect Designate of the Pittsburgh Conference Committee.

SSP TECHNICAL PROGRAM

Rick Yost, University of Florida

“The Triple Quadrupole: Innovation, Serendipity and Persistence”



In this presentation I will provide a personal perspective on the conceptualization, development and demonstration of the analytical capabilities of the triple quadrupole mass spectrometer. And in that perspective, I will try to illustrate the roles of innovation, serendipity and persistence that are fundamental to scientific research.

The triple quadrupole mass spectrometer has become the most common mass spectrometer in the world today, with sales of over \$1 billion per year. It is the gold standard for quantitative analysis in metabolomics, clinical analysis, drug discovery and development, and environmental analysis. But when I proposed that instrument as the “ultimate computerized analytical instrument” as a new PhD student in Chris Enke’s research group at Michigan State University as in 1975, the NSF reviews were uniformly negative, with experts in the field unanimous that the proposed instrument would never work. Fortunately, ONR funded the proposal, and the instrument did work!

In the 40 years since, mass spectrometry has evolved from a niche research area, largely for fundamental chemistry studies, into a practical, widely available analytical technique. Indeed, one can hardly name a significant advancement in science that was not made possible by the inventions and development of new tools to see something or measure something, and that includes everything from litmus paper to giant telescopes on mountain tops. And common to these inventions and developments have been innovation, serendipity and persistence.

BIOGRAPHY: Dr. Yost is the University Professor and Head of Analytical Chemistry at the University of Florida. He is recognized internationally as a leader in the field of analytical chemistry, particularly tandem mass spectrometry (MS/MS). Dr. Yost received his BS degree in Chemistry in 1974 from the University of Arizona, having performed undergraduate research in chromatography with Professor Mike Burke and his PhD degree in Analytical Chemistry in 1979 from Michigan State University, having performed graduate research with Professor Chris Enke. He then joined the faculty of the University of Florida.

Dr. Yost's professional activities have focused on research and teaching in analytical mass spectrometry, particularly tandem mass spectrometry (MS/MS). His group's research has reflected a unique balance between instrumentation development, fundamental studies, and applications in analytical chemistry. His group has led in the application of novel mass spectrometric methods and techniques to areas such as metabolomics, clinical, biomedical, pharmaceutical, environmental, petrochemical, and forensic chemistry. Dr. Yost has supervised the research of well over 100 graduate students during the past 39 years, graduating almost 90 PhDs from his group. He has served as PI or Co-PI on grants and contracts totaling over \$60M of funding. Research in the group has led to over 200 publications and 16 patents. He still loves teaching undergraduates and graduates in the classroom each semester. Dr. Yost recently completed terms on the Florida Board of Governors (Regents) and the University Of Florida Board Of Trustees. He is director of the Southeast Center for Integrated Metabolomics (SECIM) and of NIH's Metabolomics Consortium Coordinating Center (M3C). He is also a Professor of Pathology at both the University of Florida and the University of Utah/ARUP. His research has been recognized with the 1993 ASMS Award for Distinguished Contribution in Mass Spectrometry and the 2018 MSACL Award for Distinguished Contribution to Clinical Mass Spectrometry. He currently serves as the President of the American Society for Mass Spectrometry (ASMS).

DINNER RESERVATIONS: Please complete the **Online Dinner Reservation Form** NO LATER THAN Monday, November 5, 2018. The form is also located under the Meeting Notice on website www.sacp.org. & www.ssp-pgh.org. Should you not be able to access the form, please call 412-825-3220, ext. 212 the SACP & SSP Administrative Assistant to make your dinner reservation. The entrée choices for November are **Roasted Turkey** or **Butternut Squash Tart**. Please let us know if you have any dietary restrictions. Dinner will cost \$10 (\$5 for undergraduate students). Checks can be made payable to the SACP or the SSP, depending on membership.

PARKING: Duquesne University Parking Garage entrance is on Forbes Avenue. Upon entering the garage, you will need to get a parking ticket and drive to upper floors. Bring your parking ticket to the dinner or meeting for a validation sticker. Should any difficulties arise, please contact Duquesne University.