Society for Analytical Chemists of Pittsburgh
Spectroscopy Society of Pittsburgh

November Meeting

Wednesday, November 13, 2019

5:30 PM Social Hour — Shepperson Suite
5:30 - 6:00 PM SSP Technology Forum – Power Center Ballroom
6:30 PM Dinner – Power Center Ballroom
Student Affiliate Meeting – Shepperson Suite
7:30 PM Business Meeting – Power Center Ballroom
8:00 PM Technical Program – Power Center Ballroom

Deadline for Dinner Reservations: Monday, November 4, 2019 before Noon

SSP TECHNOLOGY FORUM

Joylette Portlock, Executive Director, Sustainable Pittsburgh
"A Sustainable Region: Built to Last"

Sustainable Pittsburgh focuses on systems change. Our programs engage hundreds of decision-makers and sustainability practitioners throughout the region who work with colleagues, organizations, and communities to advance positive, collective impact. Our work supports vibrant communities by helping people both invest in each other and improve their stewardship of natural resources. We encourage sustainability in a number of ways: through our performance programs, we accelerate and track environmental, social, and governance performance; we convene forums for peer to peer learning, assistance, and recognition; and our strategic partnerships bring diverse stakeholders to the table to solve our biggest problems through sustainable policy and practice.

This talk will discuss the importance of approaching decisions with an understanding of the interdependence of economic, social, and environmental concerns. It will also cover the importance of addressing these concerns simultaneously, and what it takes to build community around these issues - including the most urgent sustainability challenge of our time: climate change. Sustainability is an essential lens through which to consider and improve our relationship with the world around us, to generate prosperity, and to improve the social fabric of our communities.

BIOGRAPHY

Dr. Joylette Portlock is the Executive Director of Sustainable Pittsburgh, a nonprofit working to advance sustainability policies and practices in southwestern Pennsylvania. Sustainable Pittsburgh regularly works with hundreds of partners in the region — including local governments, nonprofits, and the business community — to ensure our economy is built to last and that our people and our planet thrive. Prior to her role at Sustainable Pittsburgh, Dr. Portlock served as Associate Director of Science and Research at the Carnegie Museum of Natural History and as Executive Director of Communitopia, a nonprofit based in Pittsburgh that focuses on climate change communication. She holds a bachelor's degree in biology with a minor in anthropology from MIT and a Ph.D. in genetics from Stanford University. Her work focuses on building community around sustainability topics, with a particular interest in making important scientific, technical or complex information accessible and useful. Dr. Portlock has worked on environmental issues at the local, state, and federal level, and also currently serves on the Allegheny County Board of Health. She was an advisor to Project Drawdown, and serves in many other roles in the community. Dr. Portlock has lived and worked in the Pittsburgh region since 2007.

SSP TECHNICAL PROGRAM

Dr. Jack Henion, Cornell University & Advion, Inc.
"From Hindsight to Foresight: A Review of LC/MS and the Future Role of Mass Spectrometry in the Cannabis Industry"

Modern LC/MS techniques have evolved from a problematic, challenging and complicated technique to a dependable, very important analytical tool in today's world. First commercialized in 1979 LC/MS and more importantly with LC/MS/MS capability (and now high resolution mass spectrometry!) this technique is considered by many an essential tool in fields ranging from forensic to pharmaceutical applications and beyond. I have had the opportunity to be a part of several developments from the 'early days' (early 1974) to today's rapidly changing world of new ionization modes as well as sample inlet improvements.

This presentation will provide a brief overview of some highlights in the progression towards modern approaches to LC/MS techniques. This will include benchmarking some of the very early 'successes' as well as highlighting some of the tremendous capabilities we have today. A brief digression will include excursions in CE/MS, IC/MS and SFC/MS which continue to develop further today. The current trend towards 'scaling down' the size of mass spectrometer systems and simplifying the implementation of LC/MS will be discussed. This can include miniaturization of the LC/MS systems so this powerful technique can be extended 'to the masses' of students and others who have not had the resources or the means of employing LC/MS technologies.

Although I commenced my LC/MS research as an academic at Cornell University, I 'fell into' an opportunity for entrepreneurship. This presentation will briefly overview how this transition evolved and how more recently it has led me to champion expanded use of LC/MS techniques in the rapidly growing cannabis industry.

BIOGRAPHY: Professor Jack Henion is Emeritus Professor of Toxicology at Cornell University where he was a member of the College of Veterinary Medicine commencing in 1976. Dr. Henion was co-founder of Advion BioSciences in 1993 and is now CSO of Advion, Inc. Professor Henion has received three *Doctor Honoris Causa* (Honorary Doctorate) degrees in recognition of his international reputation in modern analytical techniques from the University of Ghent, Uppsala University and Albany University. During his tenure at Cornell Professor Henion conducted research and explored applications in many areas of liquid chromatography/mass spectrometry (LC/MS) employing atmospheric pressure ionization (API) sources. Professor Henion has published over 235 peer reviewed papers in the scientific literature, trained nearly 100 students, post-doctoral scientists, and trainees while receiving 12 patents for inventions developed from his work. He has also received a number of awards which recognize his contributions to analytical chemistry and entrepreneurship. More recently in April 2017 Dr. Henion received the Outstanding Contribution to Anti-Doping Science Award from the Partnership for Clean Competition (PCC) for his development of a novel Book-Type Dried Plasma Spot Card and in the Fall of 2017 Dr. Henion was the winner of the 2018 Bioanalysis Outstanding Contribution Award (BOSCA).

DINNER RESERVATIONS: Please complete the **Online Dinner Reservation Form** NO LATER THAN Monday, November 4, 2019, before Noon. The form is also located under the Meeting Notice on websites www.sacp.org. & www.ssp-pgh.org. Should you not be able to access the form, please call 412-825-3220, ext. 200 the SACP & SSP Administrative Assistant to make your dinner reservation. The entrée choices for November are Roasted Turkey with Stuffing (Traditional Thanksgiving Dinner) or Goat Cheese Tart with Vegetable. 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 ticket. Should any difficulties arise, please contact Duquesne University.