



# PITTCON 2019

March 17-21 | Philadelphia, PA

## Learning Lab Seminars

Take a break from the exhibits and join us in the Thermo Fisher Scientific Learning Lab (located on the show floor, Room SR22) for free, educational seminars. Refreshments will be provided at morning and afternoon sessions. Lunch will be served at noon sessions.

### Chromatography Focus – Tuesday, March 19, 2019

Start	End	Title & Abstract
10:00 a.m.	11:00 a.m.	<b><i>Limited Resources? Unlimited Opportunities! New Dual HPLC Overcomes Limitations</i></b> New dual-LC technology and single-quadrupole MS provide opportunities to increase throughput by analyzing samples more efficiently and reduce operational costs by optimizing bench space. Learn how these systems can be used for efficient characterization of (bio) pharmaceuticals, fast method development, and comprehensive separation and detection of complex samples.
2:00 p.m.	3:00 p.m.	<b><i>The Past, Present, and Future of Ion Chromatography</i></b> Spend an hour with pioneer Joachim Weiss as he reflects on the evolution of ion chromatography over the past few decades. He'll take a look back at the history of this separation technique and compare it to traditional wet chemistry. He will also cover the latest tips and tricks to enhance your current analysis and share his predictions about the future direction of this technology.

### Applications on New Products Focus – Wednesday, March 20, 2019

10:00 a.m.	11:00 a.m.	<b><i>Conquer the Challenges of Small Molecule Analysis</i></b> New developments, emerging compounds and operational cost concerns create common challenges for those performing small molecule analysis. From a case study about ongoing environmental health concerns due to perfluorinated organic compounds (PFAS, etc), public outcry has created a testing trend of screening for unknown contaminants to targeted identification. Learn about transferable techniques to food and forensic toxicology labs using Orbitrap MS for accurate unknown identification and quantitation using EPA regulated QQQ methods.
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Applications on New Products Focus (cont.) – Wednesday, March 20, 2019

Start	End	Title & Abstract
12:00 p.m.	1:00 p.m.	<p><b>Boost Productivity with Reliable GC Sampling Solutions</b> Whether you're dealing with volatile or semi-volatile compounds, highly automated sampling solutions are a must for increased productivity in your laboratory. New advances offer extended, unattended workflows and the reliability required for continuous operation and minimum downtime. Learn how innovation and dependability go hand-in-hand to save time and money in your daily workflow.</p>
2:00 p.m.	3:00 p.m.	<p><b>Search for What's Missing: Unknown Compound Characterization Using LC-MS</b> Small-molecule unknown compound characterization and identification with mass spectrometry generates large quantities of complex data, increasing labor and time to translate into knowledge. Discover new software solutions coupled to a new Orbitrap HRAM mass spectrometer to tackle the challenge of capturing sufficient, high-quality MS<sup>n</sup> fragmentation spectra for each component within complex samples. These new solutions revolutionize the process and effectiveness of confident compound characterization of known-knowns, known-unknowns, and unknown-unknowns.</p>
3:00 p.m.	4:00 p.m.	<p><b>Consider Column Variety for Effective Separations</b> For method development, C18 columns may not be your answer! C18 resins are often not the best solution for resolving aromatic, polar, or moderately-polar analytes. Selecting an alternative phase will reduce wasted time on adjusting gradients and resolving co-eluting peaks. Join us to learn the benefits of alternative chemistries and how to enhance difficult separations.</p>

Workflow Enhancements Focus – Thursday, March 21, 2019

10:00 a.m.	11:00 a.m.	<p><b>Rapid Automated Peptide Mapping</b> Due to their complex nature, bio-therapeutics have a propensity to change structure, which can have a detrimental effect on the efficacy of a drug. As a consequence, peptide mapping is mandated at all stages of drug development. Sample preparation in this process is complex, laborious, subject to error and difficult to automate. Learn how new technologies can deliver faster peptide mapping that is straightforward for untrained operators as well as reproducible, transferable, and easy to automate.</p>
11:00 a.m.	12:00 p.m.	<p><b>Secrets for SuCCess – Compliance, Cloud and CDS</b> An ever-evolving emphasis on data integrity and compliance as well as an increase in cloud technology demand that your Chromatography Data System (CDS) provide complete preventative and detection technical controls. Learn how comprehensive CDS software provides audit safety, regulatory compliance and cloud connectivity, increasing productivity and confidence in your laboratory.</p>
12:00 p.m.	1:00 p.m.	<p><b>Build a Better ICP-MS Workflow</b> From sample prep to analysis, ICP-MS workflows can be streamlined with innovative technologies. Experts from Thermo Fisher Scientific, CEM Corporation, and Elemental Scientific will pull the pieces together in a joint discussion of tools like microwave digestion systems for faster sample preparation, collision cell and triple quadrupole technologies for simplified method development, and autosampler systems with autodilution for enhanced productivity.</p>
1:00 p.m.	2:00 p.m.	<p><b>Modernized POPs Analysis</b> Persistent organic pollutants (POPs) are a diverse range of compound classes with unique analytical requirements. Discover how traditional challenges associated with dioxins, PBDEs, and SCCP are overcome through a variety of GC-MS technologies and approaches.</p>