

SFC 2019 Program

Sunday, September 29

9:00-10:00 Short Course Registration

10:00-5:30 Short Course

Monday, September 30

8:00-8:30 Registration

8:30-8:40 Conference Welcome

8:40-9:10 Larry Taylor Award Seminar, David Pinkston, Archer Daniels Midland Co., USA, Footsteps of a Giant - Intellectual Travels with Larry T. Taylor

9:10-9:35 Erik Regalado, Merck, USA, SFC-PDA-ESIMS as a Framework for Impurity Fate Mapping in the Development and Manufacture of Drug Substances

9:35-10:00 Bill Farrell, Pfizer, USA, Active Flow Technology Improves Peak Efficiency in SFC

10:30-10:45 Exhibit/Coffee Break

10:45-11:10 Kevin Thurbide, University of Calgary, Canada, New Approaches to SFC Separations Using Water as a Stationary Phase

11:10-11:30 Blair Berger, University of Texas at Arlington, USA, Determination of Drugs of Abuse in Human Hair by On-Line Supercritical Fluid Extraction-Supercritical Fluid Chromatography-Mass Spectrometry

11:30-11:50 Gioacchino Luca Losacco, University of Geneva, Switzerland, Could SFC-MS/MS be considered as a viable alternative to LC-MS/MS in the routine anti-doping analysis of prohibited substances in urine?

12:00-1:00 Shimadzu Lunch Workshop, Title TBD

1:00-2:00 Break and Exhibit

2:00-2:20 Raffael Bennett, Merck, USA, A Closer Look at Achiral SFC Purification

2:20-2:40 Martin Enmark, Karlstad University, Sweden, A New Strategy for Improved Method Transfer and Scale-Up in SFC

2:40-3:00 Abhijit Tarafder, Amgen, USA, Estimation of Maximum Injection Volume from Minimum Experimental Data for Chiral Separations

3:00-3:20 Pierre Billefont, UCB Biopharma, Belgium, Separation and Purification by Supercritical Fluid Chromatography From 1 mg to Several kg in Pharmaceutical R&D

3:20-4:10 Exhibit/Poster Session

4:10-4:30 Robert Campbell, The Dow Chemical Company, USA, Strategies for Separations of Highly Hydrophobic Materials: Supercritical Fluid Chromatography of Synthetic Sebum Oil

4:30-4:50 Terry Berger, SFC Solutions, Inc., USA, Limits of Kinetic Performance in Supercritical Fluid Chromatography

4:50-5:10 A. Paige Wicker, University of Texas at Arlington, USA, A Systematic Approach for the Optimization and Validation of On-line Supercritical Fluid

Extraction – Supercritical Fluid Chromatography – Mass Spectrometry for Polyaromatic Hydrocarbons in Soil

- 5:10-5:30 Tony Yan, Pfizer, USA, Method Development for Chiral Inversion Study in Human Plasma by Using SFC/MS
- 6:00-9:00 Science Center Open House, Sponsored by Shimadzu, 315 Chestnut Street, Philadelphia, PA, USA

Tuesday, October 1

- 8:00-8:30 Registration
- 8:30-9:15 Jerry King, CFS, USA, Critical Fluid Extraction and Chromatography – Application to Cannabis/Hemp Processing
- 9:15-9:40 Susan Olesik, The Ohio State University, USA, Enhanced-Fluidity Liquid Chromatography for Disease Diagnostics
- 9:40-10:45 Exhibit/Poster Session
- 10:45-11:10 Gilles Goetz, Pfizer, USA, EPSA: When SFC Enables Drug Design
- 11:10-11:30 Romulo Romero, AstraZeneca, USA, Impact of EPSA Measurements in Drug Design
- 11:30-11:50 Matthew Przybyceil, ES Industries, USA, The Development of Stationary Phase Chemistries for Optimized SFC Separations of Natural Products
- 11:50-12:10 Quentin Gros, University of Orleans, France, Characterization of 14 SFC stationary phases and application for the separation of pharmaceuticals and natural compounds
- 12:10-1:00 Agilent Lunch Workshop, Easy Access to Rapid Chiral SFC Method Development for Non-Chromatographers
- 1:00-2:00 Break
- 2:00-2:40 Waters Workshop, Title TBD
- 2:40-3:00 Daniel Hengst, Eurofins, USA, The use of Supercritical Fluid Extraction and Chromatography in the Food and Nutritional Supplement Quality Control Laboratory: Selected Applications
- 3:00-3:20 Lucie Novakova, Charles University, Czech Republic, Green approaches to the analysis of cannabinoids in natural products
- 3:20-3:40 Takeshi Bamba, Kyushu University, Japan, Development of polar metabolite profiling method by supercritical fluid chromatography/mass spectrometry
- 3:40-4:00 Victor Abrahamsson, California Institute of Technology, USA, Supercritical fluid extraction and chromatography for in situ planetary science applications
- 4:00-4:15 Best Poster Award Presentation, Conference Close