

ASMS Fall Workshop Ion Mobility Mass Spectrometry

Co-Organizers: Matthew F. Bush, *University of Washington* & Alexandre A. Shvartsburg, *Wichita State University*

November 6 - 7, 2014 Seattle Crowne Plaza Seattle, WA

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2014 ASMS FALL WORKSHOP ION MOBILITY MASS SPECTROMETRY

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THURSDAY, NOVEMBER 6

8:00 - 9:00	Pick up name badges and workshop handouts, <i>Lobby</i> Light Continental Breakfast , <i>Evergreen Ballroom</i>
FUNDAMENTA 9:00 - 9:50	LS & INSTRUMENTATION, Evergreen Ballroom Principles, Operational Parameters, and Performance Metrics Herbert H. Hill, Washington State University
9:50 - 10:40	Conventional IMS/MS Instrumentation David E. Clemmer, <i>Indiana University</i>
10:40 - 10:55	Coffee Break
10:55 - 11:45	Differential IMS (FAIMS): Fundamentals and Analytical Platforms Alexandre A. Shvartsburg, <i>Wichita State University</i>
11:45 - 12:15	Panel Discussion: Future of Ion Mobility Instrumentation
12:15 - 1:45	Group Lunch, Parkside Room, provided by ASMS
TARGETED SE 1:45 - 2:35	PARATIONS & DETECTION, Evergreen Ballroom Ambient Ion Mobility Spectrometers for Pharmaceutical Forensics Facundo M. Fernández, Georgia Tech
2:35 - 3:25	Environmental, Metabolomic, and Security Applications Herbert H. Hill, <i>Washington State University</i>
3:25 - 3:40	Coffee Break
3:40 - 4:30	Localizing Post-Translational Modifications and Sequence Inversions Alexandre A. Shvartsburg, <i>Wichita State University</i>
4:30 - 5:00	Panel Discussion: IMS in lieu of LC for Rapid Analyses?
5:00 - 6:00	Happy Hour, Parkside Room, dinner on your own

FRIDAY, NOVEMBER 7

8:00 - 9:00	Light Continental Breakfast, Evergreen Ballroom
PROTEOMICS 9:00 - 9:50	& SYSTEMS BIOLOGY, Evergreen Ballroom High-Throughput Separations of Proteolytic Digests David E. Clemmer, Indiana University
9:50 - 10:40	FAIMS Pre-Fractionation in Bottom-Up Proteomics Helen J. Cooper, <i>University of Birmingham, UK</i>
10:40 - 10:55	Coffee Break
10:55 - 11:45	Systems, Synthetic, and Chemical Biology Strategies and Applications John A. McLean, <i>Vanderbilt University</i>
11:45 - 12:15	Panel Discussion: Processing and interpreting IMS/MS data in "omics"
12:15 - 1:45	Group Lunch, Parkside Room, provided by ASMS
STRUCTURAL 1:45 - 2:35	MASS SPECTROMETRY, Evergreen Ballroom Collision Cross Sections in Biomolecular Structural Analysis Matthew F. Bush, University of Washington
2:35 - 3:25	Peptide Assembly: Structures and Mechanisms Michael T. Bowers, <i>University of California, Santa Barbara</i>
3:25 - 3:40	Coffee Break
3:40 - 4:30	Determination of Glycans and Glycoconjugates Structure Catherine E. Costello, <i>Boston University School of Medicine</i>
4:30 - 5:00	Panel Discussion: State-of-the-Art Ion Mobility Calculations