

**2013 ASMS Fall Workshop  
Imaging Mass Spectrometry**  
Organizers: Demian R. Ifa, *York University*  
& Michelle L. Reyzer, *Vanderbilt University*

**Thursday, November 7**

- 8:00 - 9:00 Pick up name badges and workshop handouts  
Light Continental Breakfast
- 9:00 - 9:30 Introduction/Overview of Imaging Mass Spectrometry  
Demian R. Ifa, *York University*  
& Michelle L. Reyzer, *Vanderbilt University*
- 9:30 - 10:10 SIMS: Cluster/Polyatomic Ion Beams Instrumentation and Imaging Applications  
Nicholas Winograd, *Penn State University*
- 10:10 - 10:25 Break
- 10:25 - 11:05 SIMS: Lipid Membranes and Cell Analysis  
Mary Kraft, *University of Illinois*
- 11:05 - 11:45 SIMS: Biological and Artwork Analysis  
Olivier Laprevote, *University Paris Descartes*
- 11:45 - 12:15 Panel discussion: SIMS Imaging
- 12:15 - 1:45 Lunch
- 1:45 - 2:25 Sample Preparation for MALDI Imaging  
Michelle L. Reyzer, *Vanderbilt University*
- 2:25 - 3:05 MALDI Imaging with Ion Traps – Focus on Lipids  
Richard Yost, *University of Florida*
- 3:05 - 3:20 Break
- 3:20 - 4:00 MALDI Imaging of Small Molecules/Quantitation  
Per Andren, *University of Uppsala*
- 4:00 - 4:30 Panel Discussion: Sample Prep for MALDI Imaging; Imaging of Small Molecules
- 4:30 - 5:00 Special Topic Discussion: Challenges in Quantitation
- 5:00 - 6:00 Reception  
Sponsored by



## Friday, November 8

- 8:00 - 9:00 Light Continental Breakfast
- 9:00 - 9:40 MALDI Imaging with TOFs – Focus on Proteins  
Kevin Schey, *Vanderbilt University*
- 9:40 - 10:20 Imaging of Peptides in Brain Tissue  
Peter Vaerhaert, *Delft University of Technology*
- 10:20 - 10:35 Break
- 10:35 - 11:15 On-Tissue Protein Identification Strategies  
Kevin Schey, *Vanderbilt University*
- 11:15 - 11:45 Panel discussion: Protein and Peptide Imaging with MALDI
- 11:45 - 12:15 Special Topic Discussion: Tools for Visualization and Software Developments
- 12:15 - 1:45 Lunch
- 1:45 - 2:25 Liquid-Extraction and Thermal Desorption, LMJ-SSP Instrumentation and Imaging Applications  
Gary Van Berkel, *Oak Ridge National Laboratory*
- 2:25 - 3:05 Laser Desorption, LAESI Instrumentation and Imaging Applications  
Peter Nemes, *US-FDA*
- 3:05 - 3:20 Break
- 3:20 - 4:00 Spray based Desorption, DESI Instrumentation and Imaging Applications  
Demian Ifa, *York University*
- 4:00 - 4:30 Panel Discussion: Atmospheric Pressure Ionization Source Imaging
- 4:30 - 5:00 Special Topic Discussion: Protocols and Standardization of MSI