

Imaging Mass Spectrometry

Program Chairs: Richard Caprioli, Ron Heeren and Markus Stoeckli

All sessions will be in Sanibel/Captiva

Speakers – please arrive ½ hour before your session begins to load your presentation.

Friday, January 19

6:00 – 7:00 pm **Registration**, *Outside of Sanibel/Captiva*
Drinks available upstairs in Sundial II

7:00 – 10:00 pm **Conference Opening**, *Sanibel/Captiva*

7:00 - 8:00 pm Opening lecture: **Richard Caprioli**, *Vanderbilt University*
A Perspective on Imaging Mass Spectrometry

8:00 - 10:00 pm Reception, *Sundial II*

Saturday, January 20

8:30 am	Setup posters, <i>Sundial II/Osprey/Flamingo</i>
8:00 – 8:30 am	Continental Breakfast, <i>Sundial II</i>
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8:30 – 9:15 am	Introductory Session, <i>Sanibel/Captiva</i>
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8:30 – 8:45	Initial Remarks
8:45 – 9:15	Ron M.A. Heeren, <i>FOM Inst. Atomic/Molecular Physics</i> Tutorial/Overview MS Imaging Instrumentation and Methodology
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9:15 – 11:45 am	SIMS in Cells and Tissue, <i>Sanibel/Captiva</i> <i>Each talk includes 10 minutes of discussion.</i>
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9:15 - 10:00	Nicolas Winograd, <i>Penn State University</i> Chemical Imaging of Biomaterials with Cluster SIMS
10:00 - 10:15	Break
10:15 - 11:00	John Vickerman, <i>University of Manchester, UK</i> The Potential and Challenges of 2D and 3D Imaging using SIMS
11:00 - 11:45	Olivier Laprevote, <i>CNRS-ICSN</i> SIMS of Biological Tissue with Metal Cluster Beams
12:00 - 1:30 pm	Group Lunch: <i>Poolside</i> <i>Sorry no guests, name badges is required.</i>
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1:30 – 5:45 pm	MALDI MS Imaging in Biomedicine, <i>Sanibel/Captiva</i> <i>Each talk includes 10 minutes of discussion.</i>
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1:30 - 2:15	Per Andren, <i>Uppsala University</i> Imaging Parkinson's Disease
2:15 - 3:00	Markus Stoeckli, <i>Novartis Institutes for BioMedical Research</i> MSI in Pharmaceutical Research
3:00 – 3:15	Break
3:15 - 4:00	Pierre Chaurand, <i>Vanderbilt University</i> MALDI Profiling and Imaging in Disease
4:00 - 5:30	MSI Software Workshop (Cornett and Stoeckli)
8:00-10:00 pm	Poster Session and Dessert, <i>Sundial II/Osprey/Flamingo</i>

Sunday, January 21

8:30 – 9:00 am **Continental Breakfast, Sundial II**

9:00 am – 1:00 pm **MSI: Novel MS Imaging Instrumentation Developments and Data Processing, Sanibel/Captiva**
Each talk includes 10 minutes of discussion.

9:00 - 9:45 **Maarten Altelaar**, *AMOLF Institute for Atomic and Molecular Physics*
Microscope Mode MS Imaging

9:45 - 10:30 **Rick Yost**, *University of Florida*
MALDI Imaging at Higher Pressures

10:30 - 10:45 **Break**

10:45 - 11:30 **Dave Russell**, *Texas A & M University*
Combining Matrix Design, Laser Patterning and Molecular Characterization for Optimized Mass Spectrometry Based Imaging

11:30 - 1:00 **Manufacturer's Forum**
each talk is 10 minutes followed by 3 minutes of discussion

Afternoon **Free time**

7:00 – 10:00 pm **Emerging Methods in Imaging MS, Sanibel/Captiva**
Each talk includes 10 minutes of discussion.

7:00 - 7:45 **Gary Van Berkel**, *Oak Ridge National Laboratory*
Atmospheric Pressure Sampling and Ionization Techniques for Surface Analysis and Imaging

7:45 - 8:30 **Akos Vertes**, *George Washington University*
SNOM-TOFMS Imaging

8:30 - 9:15 **Klaus Dreisewerd**, *University of Muenster*
IR-MALDI Imaging

9:15 - 10:00 **“Night Cap“**

Monday, January 22

8:30 – 9:00 am **Continental Breakfast, Sundial II**

9:00 am – 1:00 pm **Perspectives and New Directions in Imaging MS, Sanibel/Captiva**
Each talk includes 10 minutes of discussion.

9:00 - 9:45 **Josephine Bunch**, *The University of Sheffield*
Imaging Mass Spectrometry from Laser Desorption to Laser Ablation

9:45 - 10:30 **Jonathan Sweedler**, *University of Illinois*
Single Cell Imaging

10:30 - 10:45 **Break**

10:45 - 11:30 **Liam McDonnell**, *FOM Institute-AMOLF*
FTMS / MALDI Imaging Perspective

11:30 - 12:15 **Peter Verhaert**, *Analytical Biotechnology*
Imaging Neuronal Tissue

12:15-1:15 pm **Caprioli, Heeren, Stoeckli**
Discussion and closing