Ion Mobility Mass SpectrometryProgram Chairs: David E Clemmer and Gary A Eiceman

All sessions will be in St. John's - Halifax

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

Friday, January 18

| 6:00 - 7:00 pm | Registration, Outside of St. John's - Halifax |
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| | Drinks available upstairs in Tomoka - Crystal |

| 7:00 – 10:00 pm | Conference Opening, St. John's - Halifax |
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| 7:00 – 8:00 pm | Opening lecture: Michael Bowers , <i>University of California, Santa Barbara</i> "Early Amyloid Oligomer Distributions: the Latest News" |
| 8:00 – 10:00 pi | n Reception, <i>Tomoka - Crystal</i> |

Saturday, January 19

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| 8:30 am | Setup posters, Tomoka – Crystal |
| 8:00 – 8:30 am | Continental Breakfast, Tomoka - Crystal |
| 8:30 – 9:30 am In | troductory Session, St. John's - Halifax |
| 8:30 – 8:45 am | Initial Remarks |
| 8:45 – 9:30 am | Carol Robinson, <i>University of Cambridge</i> "Ion mobility of Protein Assemblies: from Simple Rings to Complex Architectures" |
| Fa | omplex Systems, St. John's - Halifax cundo Fernandez, Session Chair ach talk includes 5 minutes of discussion |
| 9:30 – 10:00 am | Dragan Isailovic , <i>Indiana University</i> "Developing Ion Mobility-Mass Spectrometry for Analysis of Glycans" |
| 10:00 – 10:15 am | Break, Tomoka - Crystal |
| 10:15 – 11:00 am | Richard Smith , <i>Pacific Northwest National Laboratory</i> "Increasing the Sensitivity and Selectivity of Ion Mobility-MS Measurements for Proteomics" |
| 11:00 – 11:45 am | Julie Leary , <i>University of California, Davis</i> "IMS – MS/MS of Large Multi-Protein Complexes Isolated from Hela Cells" |
| 12:00 – 1:30 pm | Group Lunch: North Deck |
| St. Jol | nvironmental, Chemical and Biological Warfare Monitoring, John's – Halifax hn A. Mclean, Session Chair such talk includes 5 minutes of discussion |
| 1:30 – 2:00 pm | Facundo Fernandez , <i>Georgia Tech</i> "Digital Atmospheric Pressure Resistive Glass Ion Mobility Spectrometry: Instrumentation, Multiplexing and Data Deconvolution" |
| 2:00 – 2:30 pm | Joerg Baumbach, <i>Institute for Analytical Sciences</i> "Ion Mobility Spectrometry for Metabolic Profiling of Lung Diseases" |
| 2:30 – 3:00 pm | Herb Hill, Washington State University "Separation Selectivity in Ion Mobility Spectrometry" |
| 3:00 – 3:15 pm | Break, Tomoka - Crystal |
| 3:15 – 3:45 pm | Steve Harden, US Army "Compact, Hand-Held Ion Mobility Spectrometers for Detection of Trace Levels of Toxic Chemicals in the Field and Atmospheric Pressure Ionization Mass Spectrometry of Associated Ion Chemistry" |
| 3:45 – 5:45 pm | Workshop |
| 8:00 – 10:00 pm | Poster Session and Dessert, Tomoka - Crystal |

Sunday, January 20

Continental Breakfast, Tomoka - Crystal

8:30 – 9:00 am

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| St. Jo | el Instrumentation Developments and Data Processing, ohn's – Halifax las Polfer, Session Chair |
| Each | talk includes 5 minutes of discussion |
| 9:00 – 9:45 am | Sarah Trimpin, Indiana University "Snapshots of Gas Phase Separated Polymeric Materials" |
| 9:45 – 10:30 am | John McLean , <i>Vanderbilt University</i> "Functionally-Selective IM-MS Shift Strategies for Proteomics and Glycomics" |
| 10:30 – 10:45 am | Break, Tomoka - Crystal |
| 10:45 – 11:30 am | Erin Baker, Pacific Northwest National Laboratory "Employing IMS-MS to Separate and Identify Biological Molecules in Complex Samples" |
| 11:30 am – 1:00 pm | Manufacturer's Forum |
| Afternoon | Free time |
| Barra | an Perdita, Session Chair talk includes 5 minutes of discussion |
| 7:00 – 7:45 pm | Colin Creaser, Loughborough University, Leicestershire, England "Ion Mobility Mass Spectrometry of Small Molecules in Complex Systems" |
| 7:45 – 8:30 pm | Peter Armentrout , <i>University of Utah</i> "Ion Mobility Studies of Electronically Excited States of Atomic Transition Metal Cations" |
| 8:30 – 9:15 pm | Nicolas Polfer , <i>University of Florida</i> "On the Dynamics of Primary Structure Scrambling in Collision-induced Dissociation of Peptides" |
| 9:15 – 10:00 pm | "Night Cap", Tomoka - Crystal |

Monday, January 21

Continental Breakfast, Tomoka - Crystal

8:30 – 9:00 am

| 9:00 am – 1:00 pm P | Perspectives and New Directions in IMS, St. John's – Halifax |
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| C | Sary A. Eiceman, Session Chair |
| E | ach talk includes 5 minutes of discussion |
| 9:00 – 9:45 am | David Russell , <i>Texas A&M University</i> "Ion Mobility-Mass Spectrometry of Negatively Charged Peptide Ions and other Interesting Recent Developments" |
| 9:45 – 10:30 am | Erkin Nazarov, SIONEX Corporation, Bedford, MA "Miniature Differential Mobility Spectrometer (DMS) as Effective Ions Pre-filter for Atmospheric-pressure Ionization Mass Spectrometry" |
| 10:30 -10:45 am | Break, Tomoka - Crystal |
| 10:45 – 11:30 am | Albert Heck, Utrecht University "Structure, Stability, and Shape of Viruses In Vacuo" |
| 11:30 am – 12:15 | pm Perdita Barran , <i>University of Edinburgh</i> "Unpicking the Unfolding of Trp Cage" |
| 12:15 – 1:15 pm | David E. Clemmer and Gary A. Eiceman Discussion and closing |