

**Program for the 23rd [Trent Conference on Mass Spectrometry](#)
July 31st-August 3rd, 2006**

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Monday July 31st

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| 5:00 pm Dinner: Geneva Court Dining Room | |
| Evening Session Chair: Paul Mayer | |
| 6:00 | “Discovery and validation of cancer biomarkers” Leroi DeSouza, Shaun Ghanny, Valerie Dube, Jorge Grigull, Alexander D. Romaschin, Terence J. Colgan and Michael Siu (<i>York</i>) |
| 6:20 | “A preliminary investigation of differential protein concentrations in normal vs. cancerous ovarian tissue” Daryl Smith and K. W. Michael Siu (<i>York</i>) |
| 6:40 | “Identification of secreted proteins during muscle development” X’avia Chan, John C. McDermott and Michael Siu (<i>York</i>) |
| 7:00 | “Screening Bleomycin complexation by transition metal ions and model oligonucleotides using ESI/MS” Janna Anichina and Diethard Bohme (<i>York</i>) |
| 7:20 | 10 minute stretch |
| 7:30 | “The Reactions of C ₂ H ₃ N ⁺ Ions With Small Molecules” S. Hall and P. M. Mayer (<i>Ottawa</i>) |
| 7:50 | “Exploration of the catalytic oxidation of ethylene with N ₂ O mediated by Ca ⁺ , Sr ⁺ , and Ba ⁺ ” Andrea Dasic and Diethard Bohme (<i>York</i>) |
| 8:10 | “Scrubbing Ions with Molecules” Michael Jarvis and Diethard Bohme (<i>York</i>) |
| 8:30 Social: 4 th floor lounge of Geneva Lodge | |

Tuesday, August 1st

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| 7:30 Breakfast: Geneva Court Dining Room | |
| Morning Session Chair: Travis Fridgen | |
| 8:30 | Plenary Lecture: “Mass Spectrometry of Synthetic Polymers: Backbone vs End Group Reactivity Effects” Chrys Wesdemiotis (<i>Akron</i>) |
| 9:30 | “MALDI Analysis of Peptides” Ming Xue, Hong Chao (Ben) Xheng, Graham McGibbon (<i>McMaster</i>) |
| 9:50 | “Tandem Mass Spectrometry of PMMA Compare With PMA Standard” Kittisak Chaicharoen, Michael J. Polce and Chrys Wesdemiotis (<i>Akron</i>) |
| 10:10 | Coffee Break |
| 10:30 | “Characterization of Commercial Polypropylene by Mild Pyrolysis and Mass Spectrometry” David E. Dabney, Panthida Thomya and Chrys Wesdemiotis (<i>Akron</i>) |
| 10:50 | “Specific y-ion series generation using time-delayed fragmentation of tryptic peptides” Al Morrish and Michael Siu (<i>York</i>) |
| 11:10 | “Selective Monitoring of Peptides, Polymers and their Interactions” Sara E. Tomechko and Chrys Wesdemiotis (<i>Akron</i>) |
| 11:30 | “Quantitative Analysis of Polymer Mixtures” Alyson M. Leigh and Chrys Wesdemiotis (<i>Akron</i>) |
| 11:50 Group Photo | |
| 12:30 Lunch: Geneva Court Dining Room | |
| 5:00 Dinner: Geneva Court Dining Room | |
| Evening Session Chair: Hans Terlouw | |
| 6:00 | “Investigation of the Tautomerization of Acetaldehyde using Electron Bombardment Matrix Isolation FTIR Spectroscopy” Brandi West and J. Mark Parnis (<i>Trent</i>) |
| 6:20 | “Cation-Bound DNA Bases: Experiments and Calculations Leading to Gas-Phase Infrared Spectroscopic Studies” Khadijeh Rajabi and Travis Fridgen (<i>MUN</i>) |
| 6:40 | “An Efficient Process for the Formation of Protonated Water Dimer via Ion-Molecule Reaction Beginning With 1, 1, 3, 3 - Tetrafluorodimethyl Ether at Very Low Pressure” Rick Marta, Travis Fridgen, Terry McMahon (<i>Waterloo</i>) |
| 7:00 | “Simulating Ion Motion in a Modified Paul Trap” Matthew W. Forbes and Rebecca Jockusch (<i>UofT</i>) |
| 7:20 | “IRMPD in a TOF-MS” Ayman El-Faramawy, Bruce A. Thomson, and Michael Siu (<i>York</i>) |
| 7:45 | Poster Session at Copeland Hall, Chair: Sander Mommers |

Wednesday August 2nd

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| 7:30 Breakfast: Geneva Court Dining Room | |
| Morning Session Chair: Terry McMahon | |
| 8:30 | Tutorial: "Low Energy Collisions" Vladimir Baranov (<i>UofT</i>) |
| 9:30 | "Entropy Effects in the Dissociation of Ionized Dimethylhydrazine" A. M. Boulanger and P. M Mayer (<i>Ottawa</i>) |
| 9:50 | "The formation of pyrimidine from the acrylonitrile dimer ion: a computational analysis of a reaction relevant to interstellar chemistry" Henri K. Ervasti, Karl J. Jobst, Peter C. Burgers, Paul J.A. Ruttink, Johan K. Terlouw (<i>McMaster</i>) |
| 10:10 | Coffee |
| 10:30 | "Loss of NH ₂ O ⁺ from the N-hydroxyacetamide cation: an ion-catalysed rearrangement!" Karl J. Jobst, Peter C. Burgers, Paul J.A. Ruttink, Johan K. Terlouw (<i>McMaster</i>) |
| 10:50 | "Collision-induced dissociation of silver(I)amide complexes" Vladimir Romanov, Michael Siu and Alan C. Hopkinson (<i>York</i>) |
| 11:10 | "Binding and dissociation products of peptides in Cu(II) tertiary complex" Yuyong Ke, Alan C. Hopkinson and K. W. Michael Siu (<i>York</i>) |
| 11:30 | "Gas-Phase Observation of Heterolytic Dissociation of a Negative Ion into Counter Ions at Low Energies" Sara Hashemi and Diethard Bohme (<i>York</i>) |
| 12:30 Lunch: Geneva Court Dining Room | |
| Afternoon Session Chair: Diethard Bohme | |
| 1:30 | "Study of the Non-Covalent Interactions Between Polyalanine and Arginine by ESI-FTMS" E. Rivera-Tirado, C. Wesdemitotis and D. J. Aaserud (<i>Akron</i>) |
| 1:50 | "Probing the Effect of Fluorination on Strong Hydrogen Bonding in Protonated 2, 4,- Pentanedione Clusters" Jon Marten, Matt Furzecott, Terry McMahon (<i>Waterloo</i>) |
| 2:10 | "Probing Structural and Energetic Aspects of Glycine-Formate Clusters in the Gas Phase" Nathan Oldridge, Rob Nieckarz, Rick Marta, and Terry McMahon (<i>Waterloo</i>) |
| 2:30 | "Structural and Energetic Consequences of Strong Hydrogen Bonding in Gas Phase Complexes of Protonated Amino Acids and Strong Lewis Bases" Kris Eldridge, Ronghu Wu, and Terry McMahon (<i>Waterloo</i>) |
| 3:10 | "Solvation Thermochemistry of Linear Triatomic Anions Obtained via HPMS Measurements and <i>ab initio</i> Calculations" Rob Nieckarz, Nathan Oldridge, Travis Fridgen, Terry McMahon (<i>Waterloo</i>) |
| 5:30 Barbeque with Musical Entertainment by "Terra Hazelton and Her Easy Answers" (Copeland Hall) | |

Thursday August 3rd

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| 7:30 Breakfast | |
| Morning Session Chair: Rebecca Jockusch | |
| 8:50 | “Partitioning of PBDEs in the Environment” <u>A. St-Amand</u> and P. M Mayer (<i>Ottawa</i>) |
| 9:10 | “The Composition of Secondary Organic Particulate Matter from the Photo-Oxidation of Meta-Xylene” <u>Julie Bennett</u> and Don Hastie (<i>York</i>) |
| 9:30 | “Electrospray Ionization Mass Spectrometry of FeTPPCL and MnTPPCL” <u>Tuba Gozet</u> and Diethard Bohme (<i>York</i>) |
| 9:50 | 10 minute stretch |
| 10:00 | “Formation and fragmentation of triply-charged lanthanum solvated by dipeptides containing basic residues: intrinsic effect of zwitterionic structure on La(III) stability” <u>Tujin Shi</u>, Michael Siu, and Alan C. Hopkinson (<i>York</i>) |
| 10:20 | “Differential Mobility Mass Spectrometry” <u>John van Nostrand</u> and Michael Siu (<i>York</i>) |
| 10:40 | “Verification of the Curve-Crossing Model for Excitation in keV Collisions” <u>Clement Poon</u> and Paul Mayer (<i>Ottawa</i>) |
| 11:00 | Business meeting and farewell till 2007: Paul Mayer |
| 12:30 Lunch: Geneva Court Dining Room for anyone who wishes to stay for lunch, otherwise boxed lunches can be reserved | |