

## LAKE LOUISE VI

### The Sixth Lake Louise Workshop on Tandem Mass Spectrometry

#### Thursday 18 November

9.00 Welcome and announcements

#### PEPTIDE AND PROTEIN ANALYSES USING TANDEM MASS SPECTROMETRY (Simon Gaskell, Chair)

9.05 Don Hunt (University of Virginia):.....  
*peptide sequence analysis by triple quadrupole m.s.*

10.00 Coffee

10.30 Bob Boyd, XJ Tang and Pierre Thibault (NRC, Halifax): Low energy CID of multiply protonated peptide ions.

11.00 Dan Kassel (Glaxo): Rapid mapping and sequencing of phosphopeptides of human pp60<sup>c-src</sup> by perfusion column LC-MS and LC-MS/MS.

11.30 Don Douglas (Sciex): Collision cross-sections for protein ions.

12.00 Discussion

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2.00 John Stults (Genentech): Enhancing information from partial peptide sequences.

3.00 Coffee

#### TIME-OF-FLIGHT INSTRUMENTS FOR TANDEM MS

3.30 Dave Russell (Texas A&M University): .....

4.30 Ken Standing (University of Manitoba): Correlation measurements in a reflecting time-of-flight mass spectrometer.

5.30 Discussion and posters

7.30 for 8.00 Workshop Dinner

**Friday 19 November**

**QUADRUPOLE ION TRAPS AND ICR INSTRUMENTS (Gary Glish, Chair)**

- 8.30**        **Scott McLuckey** (Oak Ridge National Laboratory): Ion trap collisional activation.
- 9.30**        **Greg Wells** (Varian): New developments and applications of ion traps for GC-MS.
- 10.00**       **Coffee**
- 10.30**       **Gary Glish** (University of North Carolina, Chapel Hill): Determination of overall collision induced dissociation rates in a quadrupole ion trap.
- 11.00**       **Jim Stephenson** (University of Florida): Photodissociation in the quadrupole ion trap.
- 11.30**       **Brian Winger** (Extrel FTMS): Multistage mass spectrometry by FTMS.
- 12.00**       **Discussion**
- 12.30**       **Lunch**

**Afternoon free.**

**6.00**        **Dinner**

**Saturday 20 November****TANDEM MS TECHNIQUE DEVELOPMENT (Bob Boyd, Chair)**

- 9.00**        **Kevin Ballard** (Baylor College of Medicine): Effective resolution of the precursor ion varies during a B/E linked scan.
- 9.30**        **Y. Mouget, Bob Boyd and Michel Bertrand** (NRC, Halifax and University of Montreal): The use of a triple sector mass spectrometer in the rejection of artifact peaks.
- 10.00**        **Coffee**
- 10.30**        **Paul D'Agostino** (DRES, Suffield): .....
- 11.00**        **Paul Kebarle** (University of Alberta): Collision induced dissociation of ions produced by electrospray. Studies near dissociation threshold of ions  $M^{++}(H_2O)_n$ .
- 11.30**        **Pierre Thibault, SJ Locke** (NRC, Halifax): Improvement of concentration detection limits in CE-MS/MS experiments.
- 12.00**        **Discussion and Close**
- 12.30**        **Lunch**

**POSTERS**

**Ken Standing** (University of Manitoba): Correlation methods for the determination of the structures of some alamethecin peptides.

**Brian Musselman and Jim Iamura** (JEOL): Four sector MS/MS on a chromatographic time scale.

**Bob Bateman, Bob Bordoli, Carl Braybrook, Peter Bott** (VG Analytical), and **Ernie Clayton** (Zeneca Pharmaceuticals): A comparative study of MS/MS data produced with different collision energies and target gases, and its implications for the design of a hybrid magnetic sector time-of-flight MS/MS instrument.

**Simon Davey, Lee Tetler, Simon Gaskell, John Smart, Andrew Johnston, Lida Nezhat, and David Leigh** (UMIST) : Collision induced decompositions of catenanes and related macrocycles.

**Lawrence Hogge**: .....