LAKE LOUISE VII

The Seventh Lake Louise Workshop on Tandem Mass Spectrometry

Thursday 1 December

Thursday X 12	<u>ccember</u>	
8.50	Welcome and announcements	
MS/MS IN ION TRAPS (Gary Glish, Chair)		
9.00	Fred McLafferty (Cornell University, Ithaca, NY): High mass, high resolution tandem mass spectrometry	
9.45	Brian E. Winger, John A. Castoro, Long-Sheng Sheng and Joe Campana (Extrel FTMS, Madison, WI): Advances in peptide and protein sequencing by using MALDI-and ESI-FTMS	
10.05	Frank H. Laukien, Gary H. Kruppa, and John Wronka (Bruker, Billerica, MA): Tandem mass spectrometry on large multiply charged ions in electrospray FTMS	
10.25	Discussion	
10.45	Coffee	
11.05	Ray March (Trent University, Peterborough): Applications of ion trap MS/MS in analytical chemistry	
11.25	Greg Wells (Varian, Walnut Creek, CA): Techniques and applications of MS/MS in ion traps	
11.45	Mike McDonnell and William Schnute (Thermo Instruments Canada and Finnigan MAT): Advances in ion trap MS/MS	
12.05	Discussion	
12.30	Lunch	
APPLICATIONS OF TANDEM MS (Paul D'Agostino, Chair)		
14.00	John Headley (National Hydrology Research Centre, Saskatoon): Environmental application of MS/MS for the study of the persistence of herbicide residues in prairie wetlands	
14.20	Chester Mirocha (University of Minnesota, St. Paul, MN): Analysis of fumonisin derivatives by CF/FAB and MS/MS	
14.40	Ian Mylchreest and Clay Campbell (Finnigan MAT, San Jose, CA): Advances in automated MS/MS switching for routine LC/MS/MS	

15.00	Coffee	
15.20	Mike Morris and Brian N. Green (Fisons Instruments, UK): Potential of ES-MS and ES-MS/MS for identifying hemoglobin β -chain variants	
15.40	John Stults (Genentech, South San Francisco, CA): Advances in peptide mass fingerprinting for protein database searching	
16.00	Discussion	
16.20	Poster viewing	
18.00	Dinner	
TIME-OF-FLIGHT ANALYZERS IN TANDEM MS (Simon Gaskell, Chair)		
20.00	Robert J. Cotter (Johns Hopkins University, Baltimore, MD): Tandem time-of-flight mass spectrometry	
20.45	Ken Standing (University of Manitoba, Winnipeg): TOF measurements of daughter ions with parent ion selection by gating or correlation	
21.15	Bob Bateman and Martin Green (Fisons Instruments/VG Analytical, Manchester, U.K.): Design and performance data for a combined magnetic sector/time-of-flight mass spectrometer	
21.35	Discussion	
Friday 2 Dece	ember	
PHARMACEUTICAL APPLICATIONS OF TANDEM MS (Gordon McKay, Chair)		
9.00	Richard Yost (University of Florida, Gainesville): Fundamentals, instrumental advances and pharmaceutical applications	
9.45	Jim Yergey (Merck Frosst, Pointe Claire-Dorval): How important is MS/MS in a pharmaceutical drug discovery environment?	
10.05	Discussion	
10.25	Coffee	
10.45	Jack Henion (Cornell University, Ithaca, NY): Bioanalytical trace analysis with minimal sample preparation by LC-MS/MS	
11.30	Gordon McKay (University of Saskatchewan, Saskatoon): Comparative pharmacokinetics of fluphenazine using MRM techniques	

11.50 Bori Shushan (Sciex, Thornhill): Medical, pharmaceutical and biopharmaceutical applications of triple quad MS/MS using atmospheric pressure ion sources

12.10 Discussion

12.30 Lunch

Afternoon free

19.30

for 20.00 Workshop Dinner

Saturday 3 December

INSTRUMENTATION AND MECHANISMS IN TANDEM MS (Bob Boyd, Chair)

9.00	John Holmes (University of Ottawa): High Energy Collisions; What Do the Observations Tell Us?
9.45	Bob Boyd, Pierre Thibault, and Mike Morris (NRC, Halifax): Performance of an rf-only quadrupole collision cell operated at high pressures
10.05	Discussion
10.25	Coffee
10.45	Alex Harrison (University of Toronto): Why are B-type ions stable in peptide spectra?
11.05	Paul Kebarle and John Klassen (University of Alberta, Edmonton): Determination of threshold energies for CID of protonated peptides
11.25	Simon Gaskell and Kathy Cox (UMIST, Manchester, UK): Acid/base interactions in protonated peptides
11.45	Discussion
12.00	Close

POSTER PRESENTATIONS

Paul D'Agostino (DRES, Suffield): GC-MS/MS of irritants

Frank H. Laukien, Gary H. Kruppa, and Paul Kowalski (Bruker, Billerica, MA): Time-of-flight parent ion selection for PSD analysis of peptide mixtures

Julie Leary and Martin Kohler (University of California, Berkeley): Post-column addition of metal salts to an oligosaccharide mixture: on-line LC-MS/MS using electrospray ionization

Frank A. Londry (Trent University, Peterborough): Systematic errors affecting peak position: a quadrupole ion trap study

John Louris, Paul Kelley, and Dane Karr (Teledyne, Mountain View, CA): The use of filtered noise field in ion isolation for MS/MS in the Paul ion trap

Leo J. Milward and Richard Feicht (Agriculture Canada, Calgary): MS/MS analysis of sulfonamide residues in honey

N. Pidskalny, S. Haddad, Gordon McKay and Kam K. Midha (Univerity of Saskatchewan, Saskatoon): Optimization of a solid probe tip design for MRM analysis

Dawn E. Riegner and Gary L. Glish (University of North Carolina, Chapel Hill, NC): Relationship between ion temperature and experimental parameters for CID with a quadrupole ion trap