

LAKE LOUSIE V

The Fifth Lake Louise Workshop on Tandem Mass Spectrometry
19 November - 22 November, 1992
All Meetings are to be held in the Tom Wilson Room on the 7th Floor

Thursday, 19 November

8:30 Welcome and announcements

INNOVATIVE APPLICATIONS OF TANDEM MASS SPECTROMETRY (Simon Gaskell, Chair)

- 8:35 BRAD GIBSON (University of California, San Francisco): Sex, frogs, and a good defense
- 9:20 MARK BEAN (SmithKline Beecham): Location and identification of sites of phosphorylation and sulfation by tandem MS
- 9:45 Discussion
- 10:00 Coffee
- 10:15 KEN TOMER (National Institute of Environmental Health Sciences): Hybrid MS/MS of electrospray produced peptide ions
- 10:40 CARL BRAYBROOK (VG Analytical): High energy CID MS/MS of high mass peptides using a hybrid system
- 11:05 BOB BOYD, P. Thibault, J. Anacleto and M. Quilliam (National Research Council, Halifax): Applications of LC-tandem MS and CZE-tandem MS
- 11:30 PETER HARDOLDSEN (Syntex): Quantitative analysis of amiprilose in human plasma by flow injection thermospray and selected reaction monitoring
- 11:55 Discussion
- 12:30 Lunch

INNOVATIVE APPLICATIONS OF TANDEM MASS SPECTROMETRY (continued) (Paul Brooks, Chair)

- 2:00 CHESTER MIROCHA (University of Minnesota): Verification of continuous-flow FAB spectra by MS/MS
- 2:25 JOHN HEADLY (Environment Canada): MS/MS studies on the herbicide diclofop acid
- 2:50 Discussion
- 3:10 Coffee
- 3:30 PAUL BROOKS (Geological Survey of Canada): Reconstruction of paleoenvironments using GC-MS/MS of oils and source rock bitumens
- 3:55 PAUL D'AGOSTINO and Lionel Provost (DRES): Daughter spectra of selected organophosphates - analytical considerations

- 4:20 BORI SHUSHAN (Sciex): LC/MS/MS applied to analytical problems in the industrial environmental and forensic laboratory
- 4:45 JIM SCRIVENS (ICI, Wilton): Complex mixture analysis using four-sector mass spectrometry
- 5:10 Discussion
- 6:30 Dinner

DISCUSSION SESSION: ON-LINE SAMPLING AND MS/MS (Richard Caprioli, Chair)

- 7:45 RICHARD CAPRIOLI (University of Texas Medical School, Houston): Suitable ionization methods in microdialysis/mass spectrometry
- JOSEPH JUSTICE (Emery University): Fundamental aspects of microdialysis
- ED KERNS (Bristol-Myers Squibb): Mixture profiling using microdialysis sampling on-line with tandem mass spectrometry
- PER ANDREN (Uppsala University): In vivo neuropeptide studies
- KEN TOMER (National Institute of Environmental Health Sciences): Nanoscale techniques and microdialysis/mass spectrometry.
- KATHLEEN COX (Purdue University): Membrane introduction MS
- TONY MALLET (Institute of Dermatology, University of London): Membrane inlet mass spectrometry applied to microbiology

Friday, 20 November

MS/MS WITH NO TRAPS (Bob Boyd, Chair)

- 8:30 BOB BOYD (National Research Council, Halifax): LC-MS/MS and all that: an ignorance explosion?
- 8:50 ALAN MARSHAL (Ohio State University): Two dimensional MS/MS
- 9:35 PAUL KEBARLE (University of Alberta): Reactive modification of electrospray produced analyte ions prior to MS/MS studies
- 10:00 Discussion
- 10:15 Coffee
- 10:40 MIKE HARVEY and C. Hameister (Finnigan MAT): Innovations in MS/MS
- 11:05 CHIP CODY (JEOL): Characterization of a new BEqQ hybrid instrument
- 11:30 SIMON GASKELL (Baylor College of Medicine): Characterization of low energy fragmentations using a hybrid instrument
- 11:55 Discussion
- 12:30 Lunch

Afternoon free

7:30 Cocktails, Sun Room
8:00 Dinner, Sun Room

Saturday, 21 November

MSⁿ AND ION MOLECULE REACTIONS IN TANDEM MS (Gary Glish, Chair)

8:30 HILKKA KENTTAMAA (Purdue University): MSⁿ and ion molecule reactions in FT-ICR
9:10 KEVIN BALLARD (Baylor College of Medicine): MSⁿ on four sector hybrid instruments
9:40 KATHLEEN COX (Purdue University): Capabilities of the ion trap mass spectrometer for molecular characterization
10:10 Discussion
10:25 Coffee
10:45 GREG WELLS (Varian Instruments): Applications of ion isolation and excitation processes in ion trap mass spectrometry
11:15 RAY MARCH (Trent University): Simulation, experimentation and mass resolution of the commercial "stretched" ion trap
11:40 GARY GLISH (University of North Carolina, Chapel Hill): The use of ion/molecule reactions combined with MSⁿ to probe ion structure and reactivity
12:00 Discussion
12:30 Lunch

POSTERS

ROBERT DOYLE (ONRL, Washington, D.C.): MS/MS of sputtered ammonium dinitramide, N(NO₂)₂NH₄

JOHN HEADLEY, J. Lawrence, B. Zanyk (Environment Canada), and P.W. Brooks (Geological Survey of Canada): Degradation of diclofop methyl in a laboratory meso scale model aquifer

RALPH ORKISZEWKI (Baylor College of Medicine): Applications of high energy CAD on a hybrid instrument

LAWRENCE HOGGE, S.L. MacKenzie, D.M. Tenaxchuk, D.J. Olson (Plant Biotechnology Institute, Saskatoon), and P.W. Brooks (Geological Survey of Canada): Tandem mass spectrometry of multi-unsaturated triacylglycerides: problems and solutions

Informal posters placed by Workshop speakers.