

MOOT XVIII
McMaster University, Hamilton ON
October 14-16, 2005

PROGRAM

Friday, October 14:

7:00 – 11:00

Mixer in Wentworth Lounge, registration available
Wentworth House is building 21 on the campus map, behind
the hospital, near the Sterling St. entrance

Saturday, October 15 (CIBC Hall, MUSC (building 51, campus map)

8:00 am Registration opens, coffee & food

First Session, Chair: Bob Berno, McMaster University

9:00 Opening remarks, Alex D. Bain

9:15 David L. Bryce, Gregory D. Sward and Samyuktha Adiga, *University of Ottawa*,
Solid-state $^{35/37}\text{Cl}$ NMR Spectroscopy of Hydrochloride Salts of Amino Acids Implicated
in Chloride Ion Transport Channel Selectivity: New Opportunities at 900 MHz

9:45 Andy Y.H. Lo, Frank C.J.M. van Veggel, V. Sudaran, and Rob W. Schurko,
University of Windsor and University of Victoria, Solid-state ^{139}La , ^{19}F , ^{31}P , ^{89}Y , and
 ^1H NMR Study of LaF_3 Composites Nanoparticles

10:15 Coffee

10:30 Annie Raditsis, Dan Sørensen, Laird A. Trimble, and Barbara A. Blackwell,
Merck Frosst Canada Ltd., and *Agriculture and Agri-Food Canada*, Isolation and
Elucidation of Metabolites from *Penicillium roqueforti* by LC-MS-SPE/NMR

11:00 Neil MacKinnon and Peter J. Macdonald, *University of Toronto at Mississauga*
Interaction of Al^{3+} with phospholipid bilayer membranes: ^{27}Al and ^{31}P NMR studies.

11:30 Jiadi Xu and Ronald Y. Dong, *University of Manitoba and Brandon University*,
Structural Characterization of chiral ferroelectric Phases by Deuteron NMR

12:00 First session ends

12:00-1:30 Lunch, University Club (building 8, Alumni Memorial Hall)
Mount posters over lunch

Second session, Chair: Gillian Goward, McMaster University

1:30 Darren H. Brouwer, Malcolm H. Levitt, Per Eugen Kristiansen, Russell E.
Morris, Richard J. Darton, Colin A. Fyfe, and Bradley F. Chmelka, *Steeacie Institute for
Molecular Sciences, School of Chemistry, University of Southampton, Department of
Molecular Biosciences, University of Oslo, School of Chemistry, University of St.
Andrews, Department of Chemistry, University of British Columbia, Department of
Chemical Engineering, University of California, Santa Barbara*, NMR Crystallography: A
Solid-State NMR Method for Solution of Zeolite Crystal Structures

- 2:00 Jianfeng Zhu and Yining Huang, *University of Western Ontario*, Investigation of Toluene Molecules Adsorbed in Li⁺ exchanged Zeolite Y and L by Solid-State NMR Spectroscopy
- 2:30 Aaron J. Rossini and Rob W. Schurko, *University of Windsor*, Application of 45Sc Solid-State NMR to Scandium Containing Compounds and Materials
- 3:00 Gang Ye and Gillian R. Goward, *McMaster University*, High-Resolution Solid State NMR Studies of Proton Conductors based on Nafion and Sulfonated Polyether Ether Ketones (S-PEEK),
- 3:30 Second session ends

3:30-6:00 Posters and wine tasting, University Club

6:00 Dinner, University Club

Sunday, October 16 (CIBC Hall, MUSC

- 8:00 am coffee & food
- Third session, Chair: Giuseppe Melacini, McMaster University
- 9:15 Rahul Das, Mona Abu Abed, Daniel Bartoszek, Susan S. Taylor and Giuseppe Melacini, *McMaster University and University of California, San Diego*, Mapping Intra-Molecular Allosteric cAMP Signaling Networks by NMR
- 9:45 Ramsey Ida and Gang Wu, *Queen's University*, NMR study of rubidium cations bound to G-quadruplex structures
- 10:15 Coffee
- 10:30 Dennis Ramos, Thierry Ducat, Jenny Cheng, Nelson F. Eng, Jo Anne R. Dillon and Natalie K. Goto, *University of Ottawa*, Inter-domain interactions in the cell division protein MinE
- 11:00 Anne C. Dempsey and Gary S. Shaw, *University of Western Ontario*, Probing the S100A11 annexin II interaction by NMR
- 11:30 Matthew Revington, Yongbo Zhang, Grover N. B. Yip, Alexander V. Kurochkin, and Erik R. P. Zuiderweg, *University of Western Ontario, Northwestern University, University of Michigan*, NMR studies of the Allosteric Mechanism of *Thermus Thermophilus* DnaK
- 12:00 Meeting ends

Official Opening of the McMaster University Nuclear Magnetic Resonance Facility

Friday, October 14, 2005

Talks will take place in the CIBC Hall, McMaster University Student Centre, 1:30-4:00

- 1:30: Opening remarks
- 1:40: Lewis E. Kay, Department of Medical Genetics, University of Toronto "Looking Towards the Future with NMR: Studies of Biomolecular Structure and Dynamics"
- 2:25: Roderick Wasylshen, Department of Chemistry, University of Alberta "Progress in Investigating Solid Materials Using NMR Spectroscopy and Micro-imaging"
- 3:10: William F. Reynolds, Department of Chemistry, University of Toronto "Small Molecule NMR: Getting More and More From Less and Less"
- 3:50: Closing remarks
- 4:00: Ribbon Cutting: Arthur Bourns Building Rm A104
- 4:30: Reception ABB 273

For those interested in more NMR, there is a weekend meeting following the symposium. See <http://moot.mcmaster.ca>

Directions to campus/campus map
<http://www.mcmaster.ca/welcome/directions.cfm>