SMOOTH 14 NMR

Université de Sherbrooke, September 29-30, 2001

Final Program

Saturday, September 29

8:00 to 9:00: Registration, Lobby Building C1

9:00 to 10:35: Morning Session I: C1-565 ***Pierre Lavigne**, Chair*

9:00 to 9:10: Welcoming Comments
***Serge Lacelle**,*
Université de Sherbrooke

9:10 to 9:40: NMR and Bicelle Surface Charge,
***Peter Macdonald**,*
University of Toronto at Mississauga

9:40 to 10:10: Solid-state NMR approaches to determine the conformation of enkephalins in lipid bilayers,
***Michèle Auger**, Isabelle Marcotte and Marie-Josée Paquet,*
Université Laval

10:10 to 10:40: Direct Detection of Alkali Cations in DNA Related Systems by Solid-State NMR,
***Alan Wong** and Gang Wu,*
Queen's University

10:40 to 11:00: Coffee Break, C1-564

11:00 to 12:00: Morning Session II: C1-565 ***Linda Reven**, Chair*

11:00 to 11:30: Dynamics and Morphology of Adsorbed Random Copolymers: A Solid-State NMR and FTIR-PAS Study,
***Victor Nasreddine**, Sachiko Chijiwa, and Linda Reven,*
McGill University

11:30 to 12:00: Bifunctional Self-Assembled Monolayers: A Solid State NMR Study,
***Shane Pawsey**, Susan De Paul and Linda Reven,*
McGill University

12:00 to 13:30: Lunch, C1-564

13:30 to 15:00: Afternoon Session: C1-565 ***Stéphane Gagné***, *Chair*

13:30 to 14:00: Rotational Diffusion Anisotropy and Conformational Exchange in the Dimer of the MAX B-HLH-LZ domain,
Simon Sauvé,, Luc Tremblay, Frédéric Gagnon, Jean-François Naud, and ***Pierre Lavigne***,
Université de Sherbrooke

14:00 to 14:30: Hetero-TOCSY and Selective TOCSY-DEPT - useful derivations of the TOCSY experiment,
Valerie Robertson, *James H. Davis and Christophe Fares,*
University of Guelph

14:30 to 15:00: Mechanistic Diversity on Square Planar Complexes: Variable Pressure Kinetic Investigations by Heteronuclear NMR,
Florence J. Monlien , *Lothar Helm, Amira Abou Hamdan and André E. Merbach,*
University of Toronto

15:00 to 15:20: Coffee Break, C1-564

15:20 to 16:00: Round-Table Discussion "**NMR in Perspective**"
Serge Lacelle,
Université de Sherbrooke

16:00 to 19:00: Cocktail and Poster Session, C1-564 ***Luc Tremblay***, *Chair*

19:00 Dinner at the Faculty Room, Building B5 (Upstairs in Cafeteria)

Sunday, September 30

9:00 to 10:30: Morning Session I: C1-565, ***Michèle Auger**, Chair*

9:00 to 9:30: The 129Xe Chemical Shift Tensor in a Silicalite Single Crystal,
***Igor L. Moudrakovski**, Victor V. Terskikh, Hongbin Du, Christopher I. Ratcliffe and John A. Ripmeester,*
Steacie Institute for Molecular Sciences

9:30 to 10:00: Quadrupolar nuclei: so you thought you understood the rotating frame of reference,
*Randall Dumont and **Alex Bain**,*
McMaster University

10:00 to 10:30: On the Quantumness of NMR,
***Serge Lacelle**,*
Université de Sherbrooke

10:30 to 10:45: Coffee Break, C1-564

10:45 to 12:15: Morning Session II: C1-565, ***Yves Aubin**, Chair*

10:45 to 11:15: Study of High amylose Starch tablets by nuclear magnetic resonance imaging,
***Cedric Malveau**., E. W. Baille and X.X. Zhu,*
Université de Montréal

11:15 to 11:45: Diffusion measurements of poly(propylene imine) dendrimers with TEG amides end groups in PVA solutions and gels by PFG NMR spectroscopy,
***Emmanuel Wilms Baille**, C.Malveau, X.X Zhu.and W.T. Ford,*
Université de Montréal

11:45 to 12:15: Applications of LC-NMR in Drug Discovery,
***Laird A. Trimble**,*
Merck Frosst Canada & Co.

12:15 to 12:20: Closing Comments
***Serge Lacelle**,*
Université de Sherbrooke

SMOOTH 14 NMR

POSTER SESSION

1. Interaction between cerebroside bilayers: 2H and 31P NMR study.
   T.Zaraiskaya *and K.Jeffrey*
   University of Guelph

2. Insights into the Max homodimer BHLHLZ
   Simon Sauvé, Frédéric Gagnon*, Luc Tremblay, Jean-François Naud, and Pierre Lavigne*
   Université de Sherbrooke

3. Structural homology of TM006 (Thermotoga maritima) and EC005 (E.coli) proteins
   G.Finak , A.Denisov, P.Gutierrez, G.Kozlov, A.Yee, C.Arrowsmith and K.Gehring
   McGill University

4. A theoretical study of nitrogen electric field gradients in nucleic acid bases
   Ramsey Ida *and Gang Wu*
   Queen's University

5. Intermolecular Recognition in the Ternary PBX-DNA-HOXA1 Complex
   Tara Sprules*, Nancy Green, Mark Featherstone and Kalle Gehring,*
   McGill University

6. Biosynthesis and Characterization of Metabolites from Penicillium crustosum
   B.A.Blackwell*, M. W. Sumarah, L. Trimble and J.D. Miller*
   Agriculture and Agrifood Canada

7. Automated Structure Elucidation of Cryptolepine Derivatives
   Antony Williams*, Sergey Molodtsov, Kirill Blinov, Eduard Martirosian, Mikhail Elyashberg, Gary Martin and Chad Hadden*
   Advanced Chemistry Development

8. J-Coupler - A Tool for Automated First Order Multiplet Analysis
   Antony Williams*, Sergey Golotvin and Eugene Vodopianov*
   Advanced Chemistry Development

9. NMR Studies of self-assembled polyelectrolyte multilayers
   Rashida Smith*, Christopher Barrett and Linda Reven*
   McGill University

10. Dynamics of Fatty-Acid Self-Assembled Monolayers on High Surface Area Substrates: Solid-State NMR Study
Kimberly Yach *and Linda Reven*
Ottawa University

11. Solid state NMR studies of partially fluorinated SAMS
Andrew O'Donnell *and Linda Reven*
McGill University

12. NMR of alkali metals deposited in controlled pore glasses
V.V. Terskikh*, I.L. Moudrakovskii, C.I. Ratcliffe, J.A. Ripmeester C.J. Reinhold, P.A. Anderson and P.P. Edwards*
Steacie Institute for Molecular Sciences NRC Canada

13. Diffusion and Interactions of Oligo(ethylene glycol) in Polymer Hydrogels as Studied by PFG NMR
W.E. Baille*, C. Malveau and X.X. Zhu*
Université de Montréal

14. Study of High amylose Starch tablets by nuclear magnetic resonance imaging
C. Malveau*, W. E. Baille and X.X. Zhu*
Université de Montréal

15. Detection of Spin Gravity Interaction with NMR: Fantasy or Reality?
Serge Lacelle
Université de Sherbrooke

16. Polyacrylamide-stabilized Pf1 phage liquid crystal for protein NMR
Jean-Francois Trempe *and Kalle Gehring*
McGill University