

2019 CINS AGM @ McMaster University

DAY ONE: Friday, October 25th, 2019

*** All Sessions will be held in University Hall, Room 112 ***

10:00 am to 12:00 pm: McMaster Nuclear Reactor Facility Tours (registration required)

12:00 to 1:00 pm: Lunch (on own)

1:00 to 1:30 pm: Registration opens (UH 112)

1:30 to 3:00 pm: CINS Student Symposium (Session I) (Chair: Pat Clancy)

- Sebastian Himbert (McMaster): *The Bending Rigidity of Red Blood Cell Membranes Determined from Solid-Supported Multi-lamellar Membranes*
- Dalini Maharaj (McMaster): *Octupolar vs Neel Order in Cubic $5d^2$ double perovskites*
- Michael Nguyen (Windsor): *SANS to Probe Lipid Flip-Flop in Asymmetric Liposomes*
- Bo Yuan (Toronto): *In-plane Magnetic Anisotropy Generated by Quantum Zero-point Fluctuations in a Tetragonal Quantum Antiferromagnet Bi_2CuO_4*
- Elena Timakova (McMaster/Sunnybrook): *Development of a scintillator-based MR-compatible neutron meter: A prototype detector*

3:00 to 3:30 pm: Coffee Break

3:30 to 4:30 pm: CINS Student Symposium (Session II) (Chair: Pat Clancy)

- Mitchell DiPasquale (Windsor): *The Effect of the Antioxidant Vitamin E on Cell Membrane Organization*
- Melissa Henderson (IQC/Waterloo): *Above Room Temperature Skyrmions and Neutron Tomography*
- Eva Mueller (McMaster): *Cationic, anionic, and amphoteric dual pH/temperature-responsive degradable microgels via self-assembly of functionalized oligomeric precursor polymers*
- Evan Smith (McMaster): *Quantum Spin Ice Dynamics in the Dipole-Octupole Pyrochlore Magnet $\text{Ce}_2\text{Zr}_2\text{O}_7$*

4:30 to 5:00 pm: Registration continues (UH 112)

5:00 to 6:30 pm: Evening Session (Chair: Maikel Rheinstadter)

- Local Organizing Committee (McMaster): Introduction and Welcome [15 mins]
- Thad Harroun (Brock): President's Report (CINS update, meeting objectives) [15 mins]
- John Root (Fedoruk Centre): Update on the status of the Canadian Neutron Initiative [15 mins]
- Pat Clancy, Zin Tun, Bruce Gaulin (McMaster): Updates on the status of the McMaster Neutron Scattering Program (MAD, MacSANS, Future Directions) [45 mins]

7:00 pm: Welcome Dinner at the Phoenix

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DAY TWO: Saturday, October 26th, 2019

*** All Sessions will be held in University Hall, Room 112 ***

8:30 to 9:00 am: Registration and coffee

9:00 to 10:30 am: Neutron Research at the McMaster Nuclear Reactor (Chair: Chris Heysel)

- Chris Heysel (McMaster): MNR Facility Overview [15 mins]
- Pat Clancy (McMaster): Neutron Scattering [15 mins]
- Andrea Armstrong (McMaster): Radioisotopes [20 mins]
- Jared Cappon (McMaster): Prompt Gamma Spectroscopy [20 mins]
- Eliana Mejia (McMaster): Neutron Activation Analysis [20 mins]

10:30 to 11:00 am: Coffee Break

11:00 to 12:30 pm: “Building a Future for Canadian Neutron Scattering” (Chair: Bruce Gaulin)

- Bruce Gaulin (McMaster): Update on the status of the CFI Innovation Fund Proposal [30 mins]
- Rob Dimeo (NIST): Foreign partnership opportunities for neutron scattering at NIST [20 mins]
- Adam Aczel (ORNL): Foreign partnership opportunities for neutron scattering at ORNL [20 mins]
- Feedback and Discussion [20 mins]

12:30 to 1:30 pm: Lunch

1:30 to 3:30 pm: Accelerator-based neutron sources (Chair: Drew Marquardt)

- Drew Marquardt (Windsor): Update on the status of the New Frontiers Proposal [15 mins]
- Oliver Kester (TRIUMF): Prospects for a Canadian accelerator-based neutron source [30 mins]
- Thomas Gutberlet (JCNS): The High Brilliance Source (HBS) project at Jülich [45 mins]
- Katie Rittenhouse (Phoenix): Advancements and Applications of High-Yield Accelerator-Based Neutron Generators [30 mins]

3:30 to 4:00 pm: Coffee Break

4:00 to 6:00 pm: CINS Business (Chair: Thad Harroun)

- Treasurers Report
- By-law changes
- Elections
- Continued Discussion (as needed)

6:00 pm: Meeting adjourns (followed by optional small group dinners)



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