WORKSHOP ON DYNAMIC MICROSCOPY, Place Bonaventure, Montréal, 800 De La Gauchetière Street West, IN THE NORTH-WEST TOWER, on the 6th floor

May 9th

- 09.00 09.10 Introduction F. Rosei, B.J. Siwick, T. LaGrange
- 09.10 09.30 F. Legare New perspectives in Ultrafast Laser Science
- 09.30 09.50 T. LaGrange A Brief Synopsis of the State of Art in High-time Resolution Electron Microscopy
- 09.50 10.10 B. Reed The Technology and Physical Limits of Dynamic TEM
- 10.10 10.30 B.J. Siwick Radio-frequency cavities are just another electron optic: Pushing the limits in ultrafast electron microscopy.
- 10.30 10.50 G. Campbell Time resolved quantification of phase transformations and reactions in materials using the DTEM

10.50 - 11.20 Coffee Break

- 11.20 11.45 H. El Sayed Ali Ultrafast Structural Dynamics of Surfaces and Thin Films Studies by Electron Diffraction
- 11.45 12.10 R. Herring Imaging and Manipulation of Quasiparticles, Atoms and Electrons Using UVic's Scanning Transmission Electron Holography Microscope (STEHM)
- 12.10 12.35 D. Masiel (IDES) Commercializing across Disciplines: The Present and Future of the DTEM Marketplace
- 12.35 13.00 H. Ruda Influence of defects on nanowire properties

13.00 – 14.30 Lunch

- 14.30 14.55 J. Dubowski Technology of semiconductor-organic nano-interfaces: dynamics of functionalization and biosensing
- 14.55 15.20 G. Fanchini Thermo-optical properties of graphene layers
- 15.20 15.45 A. McLean Domain boundaries, kinks and vertices
- 15.45 16.10 R. Vogelgesang Near field optical investigations of plasmonic nanostructures; towards ultimate spatio-temporal resolution.

16.10 - 16.40 Coffee Break

- 16.40 17.05 A. Pearson Elucidating virus-host interactions through microscopy
- 17.05 17.30 N. Doucet Studying the appropriate timescale: a dynamic view of enzyme catalysis
- 17.30-17.55 C. Silva Charge photogeneration Dynamics in semicrystalline polymeric semiconductors
- 17.55 18.20 M. Singh Single Photon Switching in Quantum Dots Doped in Excitonic and Photonic Materials
- 18.20 18.30 M. Nicklaus Dynamic TEM on novel memory devices—complementary instrumentation: picosecond scanning probe microscopy
- 18.30 19.00 M. Clerici Ultrafast Optical-Electron based Pump and Probe Imaging

Discussion group topics for May 10th and 11th:

Plasmonics & Excitonics; Phase Transitions & Crystallization; Catalysis, Surfaces and Interfaces;

Biomedical

May 10^{th}

09.30 – 11.00 Panel discussion

Panel members:

T. Lagrange, B. Siwick, B. Reed, C. Silva, G. Campbell, F. Legare,

11.00 - 11.30 Coffee Break

11.30 – 13.00 Discussion groups – each discussion group has a group leader; drafting text

13.00 - 14.30 Lunch

14.30 – 16.30 Discussion Groups, drafting text

16.30 - 17.00 Coffee Break

17.00 - 18.30 Back to panel discussion with group leaders summarizing main points from the discussion groups.

18.30 Dinner

May 11th

09.30 – 11.00 Follow up Discussion Groups; drafting text

11.00 – 11.30 Coffee Break

11.30 – 13.30 Discussion Groups; polishing text; Conclusions

13.30 – 15.00 Lunch

15.00 – End of workshop.