



Neurophysics Annual Meeting 2006

Auberge Quilliams

Wednesday, June 14th

All participants are invited to check-in around 5:00PM for hotel and meeting registration, etc...

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| 3:00-5:00 PM | Neurophysics PI Meeting |
| 6:30 – 7:30 PM | Conference by Brian MacVicar (Faculty of Medicine, Psychiatry/Brain Research Centre, University of British-Columbia, Vancouver)

<i>Imaging the dynamic nature of glia</i> |
| 8:00 PM | Dinner |

Thursday, June 15th

7:00 – 8:00 AM

Breakfast

8:30AM – 12:15 PM

Bruce Lennox (McGill University, Montreal)

What is the “Dream” Sensor, and how do we get there? (40 min)

Benoit Dubertret (CNRS, ESPCI, Paris)

Full-Field Optical Sectioning and 3D Localization of Fluorescent Particles using Focal Plane Modulation (40 min)

(Coffee break 10:15)

Michel Piché (COPL, Quebec)

Hyper-resolution by vectorial transverse magnetic laser beams (breaking the diffraction limits) (20 min)

Mado Lemieux (CRULRG, Quebec)

Measuring intracellular pH and its effects on protein interactions in living neurons (20 min)

Marianne Renner (Univ. Bordeaux II, Bordeaux)

F-actin Dependent Organization of the Synaptic Membrane (20 min)

Frank Chuang (CBST – UC Davis, Sacramento)

Current Neuroscience Research at the NSF Center for Biophotonics Science & Technology (20 min)

12:30 PM

Lunch

2:00 – 6:00 PM

Poster Session – Networking

(Coffee break 4:00PM)

6:30 – 7:30 PM

Conference by **Thomas Huser** (NSF Center for Biophotonics, Science and Technology, UC-Davis, Sacramento)

Nanoprobes for the Characterization of Biochemical Processes in Living Cells

8:00 PM

Dinner

Friday, June 16th

Room check-out has to be done prior 1:00PM

7:00 – 7:45 AM

Breakfast

8:00AM – 12:15 PM

Armen Saghatelian (Canada Research Chair in Adult Neurogenesis, CRULRG, Univ. Laval, Québec)
Neuronal Development in the Adult Brain (40 min)

Daniel Côté (Canada Research Chair in Biophotonics, Univ. Laval & Harvard Medical School)
Live Animal Imaging with Video Rate Multimodal Nonlinear and Confocal Microscopy (40 min)

Paul Wiseman (for **Benedict Hebert**) (McGill, Montreal)
Probing the Actin Integrin Linkage using High Resolution Velocity Mapping (20 min)

(Coffee break 10:15)

Marcia Vernon (INO, Quebec)
Moving R&D into Industry (20 min)

Katrin Heinze (McGill University, Montreal)
Reversible Two-Photon Unbinding of Proteins (20 min)

Samantha Fore (CBST – UC Davies, Sacramento)
Single molecule biological FRET experiments inside reduced volume apertures (20 min)

Romain Maciejko (Ecole Polytechnique de Montréal)
Introduction to Optical Coherence Tomography (40 min)

12:30 PM

Lunch

AFTERNOON

Networking