

5th edition



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FRONTIERS IN NEUROPHOTONICS

An International Summer School on Advanced Imaging and Photoactivation Techniques

QUEBEC CITY | **May 18 - May 28, 2011**

Frontiers in Neurophotonics combines tutorials given by experts in photonics and neuroscience and hands-on experiments involving advanced optical approaches to measure, manipulate and follow molecular events in living neuronal cells.

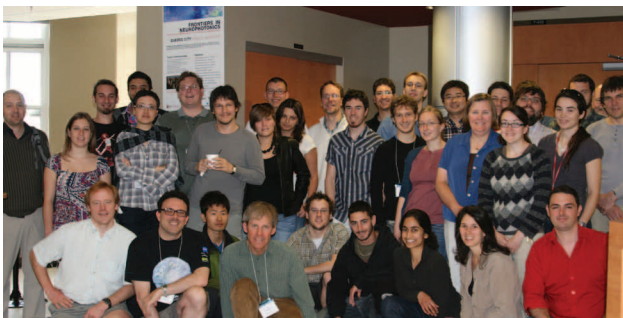
Topics to be covered include:

- Tracking cell migration and maturation in live brain slices
- Video-rate multimodal imaging in vivo
- Coherent Anti-stokes Raman Scattering microscopy
- Imaging protein trafficking in and out of synapses
- Single molecule imaging
- Fluorescence lifetime approaches
- Photobleaching and Photoactivation techniques
- Two-photon calcium imaging in axons and dendrites
- Mapping synaptic connections between neurons
- Super-resolution imaging
- Optical microprobe applications in vivo

Speakers

- Daniel Côté** (Laval Univ., Québec, Canada)
Paul De Koninck (Laval Univ., Québec, Canada)
Edward Ruthazer (McGill Univ., Montreal, Canada)
Mark Niedre (Northeastern Univ., Boston, USA)
Lisa Topolnik (Laval Univ., Québec, Canada)
Yves De Koninck (Laval Univ., Québec, Canada)
Antoine Adamantidis (McGill University, Montreal, Canada)
Thomas Blanpied (Univ. of Maryland, Baltimore, USA)
Ryohei Yasuda (Duke Univ., Durham, USA)
Paul Selvin (Univ. of Illinois, Urbana-Champaign, USA)
Kurt Haas (Univ. British Columbia, Vancouver, Canada)
Robert Campbell (Univ. of Alberta, Edmonton, Canada)
Tim Murphy (Univ. British Columbia, Vancouver, Canada)

2010 Frontiers in Neurophotonics Summer School



For more information and to apply to the School (deadline March 15 2011) visit www.neurophotonics.ca



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