



FRONTIERS IN NEUROPHOTONICS

4th edition of the international summer school on advanced imaging techniques

QUEBEC CITY | May 23 - June 2, 2010

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

Topics 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 membrane receptor tracking
- Fluorescence lifetime approaches
- Photobleaching and Photoactivation techniques
- Two-photon calcium imaging in axons and dendrites
- Mapping synaptic connections between neurons

Speakers

Denis Boudreau (Laval Univ., Québec)
 Daniel Côté (Laval Univ., Québec)
 Paul De Koninck (Laval Univ., Québec)
 Yves De Koninck (Laval Univ., Québec)
 Stéphane Dieudonné (ENS, Paris)
 Thomas Knopfel (RIKEN, Japan)
 Frédéric Leblond (Dartmouth College, Hanover)
 Frédéric Lesage (École Polytechnique, Montréal)
 Tim Murphy (Univ. British Columbia, Vancouver)
 Richard Robitaille (Univ. de Montréal)
 Edward Ruthazer (Univ. McGill, Montreal)
 Peter Stys (Univ. Calgary)
 Paul Wiseman (McGill Univ., Montreal)
 ...and more to come!



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

