

5th edition



www.neurophotonics.ca

FRONTIERS IN NEUROPHOTONICS

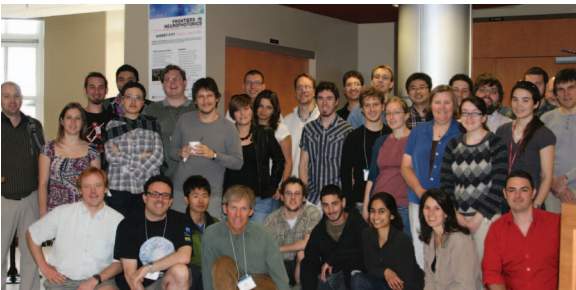
An International Summer School on Advanced Imaging and Photoactivation Techniques

May 18 - May 28, 2011
QUEBEC CITY

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.

The school is an opportunity to meet fellow researchers and students from around the world, discuss and discover the latest advances in live cell imaging techniques put in perspective by experimental challenges in the field of neuroscience.

2010 *Frontiers in Neurophotonics* Summer School



For more information and to apply to the School (deadline March 1st 2011) visit www.neurophotonics.ca

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

