



FRONTIERS IN NEUROPHOTONICS

An international summer school on advanced imaging techniques

QUEBEC CITY
JUNE 01-10, 2009

Frontiers in Neurophotonics will combine 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.

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 tracking in and out of dendritic spines
- Single membrane receptor tracking
- Fluorescence lifetime approaches
- Photobleaching and Photoactivation techniques
- Two-photon calcium imaging in axons and dendrites
- Mapping synaptic connections between neurons

Frontiers in Neurophotonics Summer School 2008



For more information and to apply to the School (initial deadline March 23) visit www.neurophotonics.ca

