

## Neurophotonics Summer School 2016

	Monday 13	Tuesday 14	Wednesday 15	Thursday 16	Friday 17
8:30	<b>Arrival/briefing</b>	<b>Arrival/briefing</b>	<b>Arrival/briefing</b>	<b>Arrival/briefing</b>	<b>Arrival/briefing</b>
9:00-10:30	<b>Daniel Côté</b> Basics of lasers and optical imaging	<b>Paul De Koninck</b> Tracking molecular events in cells	<b>Robert Campbell</b> Genetically encoded fluorophores and reporters to illuminate neuronal activity	<b>Yves De Koninck</b> Optogenetics: from basic principles to in -vivo applications	<b>Sheena Josselyn</b> Using neurophotonics to examine memory in mice
10:30-11:00	Coffee break	Coffee break	Coffee break	Coffee break	
11:00-12:30	<b>Ed Ruthazer</b> Tools for imaging neuronal morphogenesis and synaptogenesis in vivo	<b>Stéphane Dieudonné</b> Fast functional calcium imaging; pitfalls and challenges	<b>Elizabeth Hillman</b> Techniques for very high speed 3D in-vivo microscopy	<b>Pierre Marquet</b> Quantitative phase-digital holographic microscopy to explore cell structure and dynamics at the nanoscale	<b>Kurt Haas</b> Functional imaging from small neuronal networks
12:30-13:30	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
13:30-14:30	Experiment preview	Experiment preview	Experiment preview	Experiment preview	Experiment preview
14:30-19:00	Hands-on Lab experiments and demos	Hands-on Lab experiments and demos	Hands-on Lab experiments and demos	Hands-on Lab experiments and demos	Hands-on Lab experiments and demos
19:00-20:00	Dinner	Dinner	Coherent's Group dinner + Laser Tag	Dinner	Dinner
20:00-...	Data analysis	Poster session		Data analysis	Data analysis

	Saturday 18	Sunday 19	Monday 20	Tuesday 21	Wednesday 22
8:30	<b>FREE TIME</b>	<b>Arrival/briefing</b>	<b>Arrival/briefing</b>	<b>Arrival/briefing</b>	<b>Arrival/briefing</b>
9:00-10:30		<b>Santiago Costantino</b> Clinical biophotonic applications in ophthalmology and Cell Labelling via Photobleaching (CLaP)	<b>Nicolas Renier</b> Imaging of circuits and activity in intact brains using light sheet microscopy and tissue clearing	<b>Haruhiko Bito</b> Multiplex imaging of neural activity and signaling dynamics	<b>Tim Murphy</b> Mouse In Vivo Imaging and Optogenetic Tools for Elucidating Cortical Circuit Structure and Function Following Stroke
10:30-11:00		Coffee break	Coffee break	Coffee break	Coffee break
11:00-12:30		Projects	Projects	Projects	Students presentations
12:30-13:30		LUNCH	LUNCH	LUNCH	LUNCH
13:30-19:00		Projects	Projects	Projects	Students presentations (until 15h30)
19:00-20:00		Dinner	Zeiss-Coherent Group dinner	Dinner	