

Workshop on Information Optics - Québec 2018 - Final Program

	Monday July 16 th , 2018	Tuesday July 17 th , 2018	Wednesday July 18 th , 2018	Thursday July 19 th , 2018
9:00-9:30	Registration Coffee	7 Jean-Christophe Olivo-Marin : A statistical framework to analyse molecule colocalization	14 Toru Iwane : Light field optics and its application	22 Michel Piché : Vectorial laser beams for microscopy and particle acceleration
9:30-10:00		8 Ari Friberg : Three-dimensional polarization states	15 Jung-Young Son : Slanted color moires in 3-D displays: How to simulate them	23 Tigran Galstian : Liquid crystal super lenses; beyond simple focusing
10:00-10:30	Opening remarks 1 Bahram Javidi : Automatic Cell Identification and Visualization using Digital Holographic Microscopy with Head Mounted Augmented Reality Devices	Coffee	Coffee	Coffee
10:30-11:00	Keynote speaker Prof. Jean-François Lalonde Université Laval	Keynote speaker Prof. Jeremy P. Bos Michigan Tech	16 Pierre Marquet : Exploring cell structure, dynamics and homeostasis with a multimodal microscopy approach based on digital holographic microscopy: towards identifying early biomarkers of cell viability and cytotoxicity	24 Teruyoshi Nobukawa : Grating-assisted spatial phase-shifting incoherent digital holography with compressive sensing for noise reduction
11:00-11:30			17 Max (Dongkyung) Nam : Ultra thin camera - a compound eye vision approach	28 Johannes Courtial : Simulating curved spaces with micro-optics
11:30-12:00	2 Artur Carnicer : Considerations on the design of diffractive optical needles	9 Yasuhiro Awatsuji : Parallel phase-shifting digital holographic microscope	18 Sergei Popov : Polymer photonics and nano-materials for optical communication	26 Toralf Scharf : Singularities behind microstructures under different coherence conditions
12:00-14:00	Lunch	Lunch	Lunch	Lunch
14:00-14:30	3 Thierry Fournel : Cauchy-Glass patterns	10 Min-Chul Park : Vision in plants by artificial photosynthesis	19 Olivier Daigle : The use of EMCCDs as silicon-based photon counting devices	27 Inkyu Moon : Holographic red blood cell image analysis
14:30-15:00	25 Simon Thibault : Ray-based Approach: From Vectorial Beam to Propagation through Diffuse Media	11 Osamu Matoba : Multi-physical parameter imaging based on digital holography	20 Xavier Dallaire : Lens aberrations correction using a projection technique	4 Miguel Alonso : Birefringent distributions tailored for imaging and other applications
15:00-15:30	Coffee	Coffee	21 Nathalie Blanchard : Optical Design for real-time THz Imaging at INO	Closing remarks Coffee
15:30-16:00	5 Daniel Côté : Imaging the complexity of the nervous system	12 Claas Falldorf : Holographic wave field synthesis using refractive elements	Poster session	
16:00-16:30		13 Yi-Pai Huang : Active Micro-optical Devices for Light-field AR/VR Display		
16:30-17:00				
17:00-17:30	<i>Transport to COPL</i>			
17:30-18:00	Welcome reception and lab tour Centre for optics, photonics and laser			<i>Transport to Museum</i>
18:00-20:00		Conference banquet		An evening at the Museum Musée de la Civilisation
20:00-20:30	<i>Transport to CCQ</i>			
20:30-21:00				
21:00-21:30			<i>Transport to CCQ</i>	