

The Second Annual Optics & Photonics Student Conference

Official SPIE FOCUS sponsored conference

SPIE.FOCUS

September 26 - 27, 2019

University of Toronto

The SPIE & OSA student chapter at UofT is excited to invite you to our second annual student conference in optics and photonics. Abstracts are now being accepted for oral and poster presentations from student researchers at both graduate and undergraduate levels. We look forward to hearing about your research!

Invited Speakers:

Prof. Claude Fabre, UPMC Sorbonne Universités

Generation of Gaussian and non-Gaussian multimode entangled states of light for applications to Quantum Information Processing

Prof. Paul O'Brien, York University

One-dimensional Transparent Photonic Crystal Heat Mirrors for Solar Thermal Applications

Prof. Federico Rosei, INRS

Multifunctional materials for emerging technologies

and a professional development talk:

Mentorship for Young Scientists: Developing Scientific Survival Skills

Dr. Zachary Vernon, Xanadu

Continuous Variable Quantum Photonics

Please submit abstracts by September 16, 2019

Abstract submission: forms.gle/xeUPBmBrAPEFhMhA9

Registration (free): forms.gle/YLBcDtiWRCNPXHPg8

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photonics.utoronto.ca/optics-and-photonics-student-conference/



The Second Annual Optics & Photonics Student Conference

SCHEDULE

Thursday, September 26

9:30-10:00	Registration	GB 202
10:00-11:00	Invited Speaker - Prof. Federico Rosei, INRS <i>Multifunctional materials for emerging technologies</i>	GB 202
11:00-11:10	Coffee Break	GB 202
11:10-12:10	Invited Speaker - Prof. O'Brien <i>One-dimensional Transparent Photonic Crystal Heat Mirrors for Solar Thermal Applications</i>	GB 202
12:10-1:00	Lunch Break	GB 202
1:00-1:20	Ilan Tzitrin <i>Redoing and undoing local actions from afar: entanglement recast as an operational symmetry</i>	MS3154
1:20-1:40	Joshua Baxter <i>Deep Learning for the Prediction and Inverse Design of Plasmonic Colours</i>	MS3154
1:40-2:00	Moein Shayegannia <i>Low Concentration Molecular Detection Using Multiwavelength SERS on Width-Graded Plasmonic Gratings</i>	MS3154
2:00-2:20	Mahdi Safari <i>Optically and RF Transparent Meta-Glass</i>	MS3154
2:20-2:30	Coffee Break	MS3154
2:30-4:30	Lab Tours - Wheeler Microfluidics Laboratory, Herman Laser Processing Lab, Kherani Advanced Photovoltaics-Photonics and Devices Group, Miller Atomically Resolved Dynamics Lab, and Burton Tower Telescopes	Departs from MS3154
6:00-7:30	Evening Talk - Prof. Federico Rosei <i>Mentorship for Young Scientists: Developing Scientific Survival Skills</i>	GB303

The Second Annual Optics & Photonics Student Conference

SCHEDULE

Friday, September 27

9:30-10:00	Registration	GB 202
10:00-11:00	Invited Speaker - Prof. Fabre <i>Generation of Gaussian and non-Gaussian multimode entangled states of light for applications to Quantum Information Processing</i>	GB 202
11:00-11:10	Coffee Break	GB 202
11:10-12:10	Invited Speaker - Dr. Vernon <i>Continuous Variable Quantum Photonics</i>	GB 202
12:10-1:00	Lunch Break	GB 202
1:00-1:20	Zujun Xu <i>Red-shifted Spectrum in Multi-Frequency Raman Generation</i>	GB 202
1:20-1:40	Mitra Rahimian <i>Mapping Complex Polarization States of Light on a Solid</i>	GB 202
1:40-2:00	Abdullah Rahnama <i>Fiber Bragg Grating Opto-fluidic Sensor</i>	GB 202
2:00-4:00	Coffee Break & Poster Session	GB 202
4:00-4:30	Award ceremony and Closing remarks	GB 202