



University of Toronto ECE Graduate Symposium

# Connections 2014

May 5th, Bahen Centre for Information Technology

**Welcome!**

All events will be held in Room 1130 of the Bahen Centre, unless otherwise indicated.

Time	Session	Speaker
9:30 AM	Registration & Breakfast (Bahen Atrium)	<b>Food and refreshments will be provided.</b>
9:50 AM	Welcome Address	
10:00 AM	<u>Keynote Speech</u> Topic: <i>Connections: Machine Learning, Genome Biology and Medicine</i>	Professor Brendan Frey (University of Toronto)
10:30 AM	<u>Tech Talk – Intel</u> Topic: <i>Intel and Intel Custom Foundry SerDes Overview</i>	Dr. Aleksey Tyshchenko (Senior Systems Engineer, Intel)
11:00 AM	<u>Info Talk – Hatchery</u> Topic: <i>Entrepreneurship and the Hatchery</i>	Joseph Orozco (Executive Director, Hatchery)
11:15 AM	<u>Tech Talk – Compuware</u> Topic: <i>The Next Generation of Application Performance Management</i>	Daniel Pohanka (Compuware)
11:30 AM	<b>Student Poster Presentations &amp; Industry Booth Session</b> (Bahen Atrium)	
12:15 AM	<b>Networking Lunch &amp; Industry Booth Session</b> (Bahen Atrium)	<b>Food and refreshments will be provided.</b>
1:00 PM	<u>Tech Talk – Infinera</u> Topic: <i>Infinera and its Advanced Technologies for 100G and Beyond</i>	Dr. Yuejian Wu (Director of ASIC development, Infinera) Dr. David Krause (Photonics Engineer, Infinera)
1:30 PM	<u>Info Talk – Mitacs</u> Topic: <i>Facilitating Academic-Industrial Research Collaborations; Developing the Next Generation of Innovators</i>	Dr. Fiona Cunningham (Director, Business Development, Mitacs)
1:45 PM	<u>Tech Talk – Siemens</u> Topic: <i>Digitizing the Modern Energy Grid: The Pressing Need for a Paradigm Shift</i>	Kamyar Moghadam (Senior Engineer & SmartGrid Business Development Manager, Siemens)
2:00 PM	<u>Tech Talk – Geotab</u> Topic: <i>Telematics Technology and Geotab Company Overview</i>	Maria Sotra (Marketing Manager, Geotab)
2:15 PM	<b>Student Oral Presentations I</b>	
3:15 PM	<b>Coffee Break</b>	
3:30 PM	<b>Student Oral Presentations II</b>	
4:15 AM	<u>Tech Talk – Bionym</u> Topic: <i>The Nymi and Your Identity</i>	Dr. Karl Martin (CEO of Bionym)
4:30 PM	<u>Info Talk – IEEE Toronto Section</u> Topic: <i>IEEE - Connecting the World, Connecting You</i>	Dr. Emanuel Istrate (Chair, IEEE Toronto Section)

<b>5:00 PM</b>	<b>Panel Discussion</b> Topic: <i>Academia &amp; Industry Crossroads</i>	Michael Galle (CEO of Inometrix Inc.), Dr. Karl Martin (CEO of Bionym), Dr. Inmar Givoni (Senior Research Scientist, Kobo), Professor Jason Anderson (U of T), Professor Tony Chan Carusone (U of T), Professor Natalie Enright Jerger (U of T) <u>Moderator:</u> Professor Stark Draper (U of T)
<b>6:15 PM</b>	Closing Address	
<b>6:30 PM</b>	Awards Presentation & Intel Networking Dinner Banquet (Debates Room, Hart House)	<b>Please bring your dinner ticket.</b> Reception opens at 6:30 pm. Awards presentation is at 6:45 pm. Dinner begins at 7:00 pm.

### Student Oral Presentation Schedule

Timeslot	Room	Presenter	Topic
<b>2:15 PM</b>	<b>BA 1130</b>	<b>Victor Wen</b> (Energy Systems)	<i>A Cell-Level Power Management IC for Partial Power Processing in PV Energy Harvesting Applications</i>
	<b>BA 1170</b>	<b>Wei Wang</b> (Computer Engineering)	<i>Multi-Resource Fair Allocation in Heterogeneous Cloud Computing Systems</i>
<b>2:30 PM</b>	<b>BA 1130</b>	<b>Jason Grenier</b> (Photonics)	<i>Ultrafast Laser Inscription of Optical Fiber Sensors and Circuits</i>
	<b>BA 1170</b>	<b>Nazanin Calagar</b> (Computer Engineering)	<i>Source-Level Debugging for FPGA High-Level Synthesis</i>
<b>2:45 PM</b>	<b>BA 1130</b>	<b>Juan Gonzalez</b> (Biomedical)	<i>A Feedback System to Improve Gait in Lower-Body Amputees</i>
	<b>BA 1170</b>	<b>Narges Norouzi</b> (Computer Engineering)	<i>Assessment of Alcohol Withdrawal Tremor in the Emergency Department</i>
<b>3:00 PM</b>	<b>BA 1130</b>	<b>Heng Xu</b> (Computer Engineering)	<i>Efficient Strong Consistent Communication in Distributed Control Plane of Software Defined Networks</i>
	<b>BA 1170</b>	<b>He Xu</b> (Photonics)	<i>Characterization of Superconducting Single Photon Detector (SSPD)</i>
<b>3:15 PM</b>	<b>Coffee Break (Bahen Atrium)</b>		
<b>3:30 PM</b>	<b>BA 1130</b>	<b>Feihu Xu</b> (Photonics)	<i>How to Foil a Quantum Hacker</i>
	<b>BA 1170</b>	<b>Hamed Sadeghi</b> (Communications)	<i>An Epipolar Geometry-Based Approach for Vision-Based Indoor Localization Using Smartphone Cameras</i>
<b>3:45 PM</b>	<b>BA 1130</b>	<b>Mario Badr</b> (Computer Engineering)	<i>SynFull: Synthetic Traffic Models Capturing Cache Coherent Behaviour</i>
	<b>BA 1170</b>	<b>Amer Samarah</b> (Electronics)	<i>Spurious Free Digital PLL</i>
<b>4:00 PM</b>	<b>BA 1130</b>	<b>Michael Selvanayagam</b> (Electromagnetics)	<i>Passive and Active Methods for Controlling [and 'Cloaking'] Electromagnetic Fields</i>
	<b>BA 1170</b>	<b>Saber Amini</b> (Electronics)	<i>Beyond Technical: Life Lessons Learned in Grad School</i>