

CESO 2016 Conference Program

February 8-9, 2016

Sick Kids Hospital

Peter Gilgan Centre for Research and Learning - 686 Bay St (Corner of Bay & Elm)

Updated February 7, 2016



Clinical Engineering Society
of Ontario

Monday, February 8

Time		Topic	Detail	Speakers
08:00 - 08:45			Registration and Free Breakfast	
08:45		Welcome and opening remarks		Bill Gentles & Mario Ramirez
09:00	Session 1	Keynote address	The High Reliability Organization in Healthcare	Dr. Mike Apkon, President & CEO, Hospital for Sick Children
09:45 - 10:15			Break	
10:15	Session 2	High Reliability Organizations	Relevance to Clinical Engineering	Dave Gretzinger, University Health Network
		Health Canada Medical Devices Sentinel Network	Impact of HCMDSN on patient safety	Colleen Turpin, Problem Report Information Specialist, Health Canada
		Should we be ALARMed? An Overview of Alarm Safety Management	There is a high reliance on medical technologies in the ICU for surveillance and delivery of therapies. Each device has its own set of alarms to alert caregivers to physiological and technical changes in the system and patient. This results in an excessive number of alarms in clinical units, and translates to an increased risk of alarm fatigue amongst caregivers. Following the current best practices, UHN is pursuing a strategy to address Alarm Safety Management.	Preethi Vaidyanathan & Dave Gretzinger, University Health Network
		Alarm Communication Management	Clinical issues related to alarm management.	Helen Edwards, Hospital for Sick Children
11:30 - 13:30			Lunch and Exhibits in Vendor Hall	
13:30	Session 3	Use of 3D Imaging in Real-Time for Spine Surgeries – a Surgeon's perspective.	The advantage of using 3D Imaging during Spine Surgeries for placement of pedicle screws is very important for identifying the Rotation and Angulation of each Vertebra. The Real-Time images can guide the Surgeon to place the screws exactly in the center of the Pedicle. Missing the center of the Pedicle can cause many problems like damage to the Dura and Spinal Cord or even cause explosion of the Pedicles.	Dr. Samuel Johnson, Oman Ministry of Defence & Oman Medical Specialty Board
14:15		A Surgical Dashboard for Minimally Invasive Head & Neck Surgery	Translational research activities in the Guided Therapeutics (GTx) Operating Room	Michael Day is a Ph.D. student in the Institute of Medical Science (University of Toronto) conducting research at the Princess Margaret Cancer Centre under the supervision of Dr. David Jaffray. He has an M.Sc. in Electrical Engineering from McMaster University and a B.Sc. in Mathematics and Engineering from Queen's University.
14:40		Making the invisible visible	Technology to visualize and target bacteria in wounds	Dr. Ralph DaCosta, Scientist at PMH Cancer Centre and MARS.
15:00			Break	
15:30	Session 4	Serviceability of Medical Equipment		Jean Ngoie, Niagara Health System; Murray Rice, UHN; Mike Capuano, Hamilton Health Sciences
		Roundtable on PM Issues & Documentation		Hal Hilfi, The Ottawa Hospital, Mike Capuano, Hamilton Health Sciences; Charlie Richardson, Headwaters Health Care Centre

Parallel Technical Seminars Monday, February 8

09:00 - 11:00		3D printing Update	New developments in 3D printing technology. This seminar is an update on a presentation given by Matt Filleti at last year's CESO conference.	Matt Filleti. Matt Filleti is the Machine Shop Supervisor in the Princess Margaret Cancer Centre.
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Tuesday, February 9

Time		Topic		Speakers
08:30 - 09:00		Registration and Free Breakfast		
09:00 - 10:30	Session 5		Each presentation will last 10 minutes, followed by 5 minutes for Q&A. These will be the 6 best papers from the pre-conference presentations that took place on Feb 1.	
09:00		UofT Clinical Engineering Student Presentations:	Reduction of blood transfusions through electronic tracking systems	Mark Fletcher
09:15		"Recent developments in healthcare technology"	Electroarthrography: A method to assess cartilage quality?	Mikael Ragbar
09:30			A spleen-inspired device for blood cleansing in sepsis treatment	Andrea Vegh
09:45			Sphenopalatine Ganglion Block for Migraine and Headache Relief	Joshua Lockwood
10:00			Neurosurgical applications of Biomedical Microelectromechanical systems (Bio-MEMS)	Sulmaz Zahedi
10:15			Heart Flow as a novel modelling technique to characterize and diagnose Coronary Artery Disease	Sherif Ramadan
10:30 - 11:00			Break	
11:00	Session 6	Roundtable: Non-Traditional roles for Clinical Engineering	Setting up an Imaging support program. Political issues, staffing issues, budget issues etc	Tim Zakutney, Ottawa Heart Institute
			Patient Wandering	Jack Lam/John Leung, University Health Network
			Patient lifts - Update on a new CSA draft standard on patient lifts with implications for Clinical engineering.	Bill Gentles is a self employed biomedical engineering consultant with 40 years experience working with Ontario hospitals.
12:00 - 13:30		Lunch and Posters by Community College Students in Biomedical Engineering Technology programs		
13:30	Session 7	CESO Annual General Meeting		Bill Gentles
14:00	Session 8	Technologist Roundtable: Troubleshooting Seminar	Case studies from the field	Technologists in Ontario hospitals
			Real life problems that were solved using ingenuity and creativity	
			Solving the dreaded E20 and E21 error in the Fisher & Paykel humidifier	Larry Cortez, Sr. Technologist, Med. Engineering Department University Health Network-Toronto General Hospital
			Banding Artifact noted after reconstruction	Douglas McTaggart, CT Modality Leader Diagnostic Imaging, Medical Engineering Department University Health Network- Toronto General Hospital
			Mini MRI Compatible Iron Lung	Ian Fisher & Carl Granger Medical Engineering, The Hospital for Sick Children
			High effective yet inexpensive device for mouse urinalysis	Ian Fisher & Carl Granger, Medical Engineering, The Hospital for Sick Children
			Ventricular Tachy/Flutter Artifact on ECG Machines	Mike Capuano, Manager, Biomedical Technology Patrick Misale, Biomed Tech, Biomedical Technology Hamilton Health Sciences
			Location of Emergency Switch and Code Blue button inside Cathlab /Angio procedure rooms	Ali Ursani, Team Leader-Medical Imaging service –UHN, MSH & WCH Toronto General Hospital
15:30		Closing remarks, door prizes and student prizes		Bill Gentles & Mario Ramirez

Parallel Technical Seminar Tuesday February 9

09:00 - 12:00		Cardio-pulmonary physiology & anesthesia		Ana Lopez-Filici, Anesthesia, University Health Network.
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