

CESO Conference Feb 3-4, 2020, Sick Kids Final program Jan. 30/2020

Peter Gilgan Centre for Research and Learning 686 Bay St (Corner Bay & Elm) - Monday Feb 3 Main Auditorium

Time	Topic	Speaker	Speaker Bio
8:30-9:00	Registration and Free Breakfast		
9:00 – 9:05	Welcome and Opening Remarks	Bill Gentles & Mario Ramirez	
9:05 -10:00	Keynote Address	Artificial Intelligence in Emergency Medicine – Dr. Devin Singh, Sick Kids	<u>Dr. Devin Singh</u> is a practicing Paediatric Emergency Medicine Physician from the Hospital for Sick Children (SickKids) in Toronto. His research focuses on the use of machine learning to solve some of healthcare’s largest problems. He is the Physician Lead for Clinical Artificial Intelligence and Data Science at SickKids for the Division of Emergency Medicine and is currently completing a Master of Computer Science at the University of Toronto.
10:00 – 10:45	A day in the life of a Clinical Engineering Tech or manager	Mike Capuano, Hamilton Health Sciences, Murray RICE, UHN, Sarah Bruch, Equipment Planner	<u>Sarah Bruch</u> is currently a medical equipment and furniture planner with OneEq. OneEq is a full-service technology, planning and operational consulting firm in the health care industry. She is responsible for assisting architects, contractors and health care professionals with the design and development of new healthcare facilities or renovations to existing facilities. Previously she had worked as a biomedical engineer in training at both The Ottawa Hospital and Ottawa Heart Institute. Her educational background is in Biomedical and Electrical Engineering and she has also completed her Masters in Clinical Engineering, both at Carleton University.
10:45-11:15	Break		
11:15 – 12:15	Cross Province Check up	Frank Gigliotti, Niagara Health, Mike Smit, Thunder Bay, Joe Obeid, Windsor Regional Hospital Andrew Ibey, CHEO	<u>Mike Smit</u> , a graduate of the inaugural Biomedical Engineering Technology program at Centennial College, started working as a Biomedical Engineering Technologist for Thunder Bay Regional Health Sciences Center (TBRHSC) in May of 2010. He has been based in Renal Services over this time servicing dialysis equipment in center, in communities up to a 500 km radius of Thunder Bay, and in fly-in only communities in Northern Ontario. In addition, he is the Lead on Ventilators and is a System Administrator of TMS Online, the CMMS used by TBRHSC. <u>Andrew Ibey</u> is the Acting Corporate Manager at the Ottawa Hospital, and a Clinical Engineer at the Children’s Hospital of Eastern Ontario as well as an Adjunct Research Professor at Carleton University. Previously, he spent 9 years as a Biomedical Engineer and Manager working in a large consolidated Biomedical Engineering Program in Vancouver. Mr. Ibey has dual bachelors in mechanical engineering and physical

			geography from Queen's University, and a graduate degree in Clinical Engineering from UBC. In 2011, he was awarded Early Career Achievement Award by CMBES. He is a registered Professional Engineer in Ontario, a Certified Clinical Engineer and a member with CMBES, ACCE and is a senior member with IEEE.
12:15-2:15	Lunch and Vendor Exhibits in Gallery		
2:15-3:15	Meeting Health Canada Mandatory reporting requirements - roundtable	Paul Litowitz, Health Canada Mario Ramirez, Sick Kids Vincent Lam, St. Mike's Dave Gretzinger, UHN Murat Firat, Sunnybrook Mike Capuano, Hamilton Health Sciences	Paul Litowitz manages the Public and Regulatory Affairs Section – which includes the regional Canada Vigilance Program - in Health Canada's Marketed Health Products Directorate. Before joining Health Canada 12 years ago he worked in the pharmaceutical industry. Since joining Health Canada he has worked in a number of health product scientific and regulatory affairs groups. Over the past two years he and team have been supporting the implementation of Vanessa's law concerning new regulations for hospitals which require the reporting of serious adverse drug reactions and medical device incidents.
3:15-3:45	Break		
3:45-4:30	AI and virtual reality in Healthcare	Josh Hiansen, Biomedical/Industrial designer, Advanced Perioperative Imaging Lab, Toronto General Hospital	Joshua Qua Hiansen is the Biomedical/Industrial designer of the Advanced Perioperative Imaging Lab (APIL) at Toronto General Hospital. APIL specializes in point of care manufacturing which focuses on the use of digital manufacturing technologies, like AR, VR, and 3D printing, to develop patient-specific models for surgical planning and medical education. Additionally, Josh is also a coordinator for Nia Technologies – a not-for-profit technology company which develops a digital toolchain for prosthetics design. Josh earned his undergraduate and Masters degree at The University of Western Ontario in Human Physiology.
	Artificial intelligence in medical imaging	Hatem Mehrez, Physicist, Canon Medical Imaging	Dr. Hatem Mehrez is a Clinical Research Scientist with Canon Medical. He has a PhD in Physics from McGill University, was a research associate with NASA, and worked with GE Healthcare before joining Canon. He works closely with clinicians and engineers on diagnostic imaging research projects that translate research into clinical applications. His work involves clinical project design, statistics, algorithm and software development, medical devices, and image reconstruction. His current projects involve the application of artificial intelligence to CT image reconstruction.
4:30-4:45	Day 1 Closing & Door Prizes	Bill Gentles & Mario Ramirez	

Monday Feb 3 Technical Track, Rooms 2A, 2B

0900 - 1230	Zoll Biomed Symposium	Speaker
	<p>During this educational symposium, you will learn about:</p> <ul style="list-style-type: none">• Detailed differences between device options and technological advances• ZOLL® defibrillation waveforms• Tips on troubleshooting and preventive maintenance on ZOLL defibrillators• How an automated fleet management platform can save you time and money to the Department / Hospital	<p>Fred Dubé's educational background includes a DEC en Technologies du Génie Électrique from Ahuntsic College and a Certificate in Biomedical Technology from Université de Montréal – Ecole Polytechnique de Montréal</p> <p>After few years working for CHUM (Centre Hospitalier de l'Université de Montréal) and the CISSS du Bas-Saint-Laurent – Hôpital Régional de Rimouski, he decided to join ZOLL Medical Corporation in 2010. In his 9 years of experience with ZOLL, he has provided outstanding field support to Eastern Canada, gaining vast experience in the area of defibrillation and monitoring. Currently he holds the role of Field Service Team Leader for ZOLL Medical Corporation, coordinating the field team, while training and mentoring his peers and colleagues.</p>

Tuesday Feb 4 Main Auditorium

Time	Topic	Speaker	Speaker Bio
8:30-9:00	Registration and Free Breakfast		
9:00 -10:00	UofT Student presentations		
	Improving Accessibility for Children with Locked-in Syndrome using a Near-Infrared Spectroscopy Brain-Computer Interface	Christine Horner	
	Using eye tracking to study how the cognitive load of surgeons affects the risk of adverse events	Danny Yang	
	Advances and Challenges in Diabetes Technology	Aliaa Gouda	
	Paving the road to reduce the spread of antimicrobial resistance using point-of-care tests	Bonnie (Tso-Yu) Chao	
10:00-10:30	Break/Networking		
10:30-11:30	<p style="text-align: center;">Careers in Clinical Engineering</p> <p>A cross-section of people with interesting career paths in Clinical</p>	<p>Simranjeet Singh</p> <p>David Chartash,</p> <p>Megan Hamilton</p> <p>Kathleen Beach</p> <p>Andres Parra</p>	<p>Simranjeet Singh received a degree in Biomedical Engineering from India in 2010. He worked as a service engineer in Getinge India pvt ltd for 3 years, then came to Canada in 2014 as an international Student and studied the biomedical engineering technology program from centennial college. He joined St. Michael's hospital as a technician in 2017 and currently is working in Dialysis team as a clinical engineering technologist.</p>

	Engineering		<p>Megan Hamilton is a Human Factors Specialist at Sinai Health. Her current portfolio includes simulation-based mock-up evaluations for the future-state Emergency Department and Intensive Care Unit. She completed her MHSc in Clinical Engineering from the University of Toronto in 2019 and also holds a BAsC in Mechanical Engineering from Queen’s University.</p> <p>Kathleen Beach graduated from the Biomedical Engineering Technologist program at St. Clair College. After, Kathleen did an internship at London Health Sciences Hospital where she gained most of her hands on experience within their electrophysiology labs. Kathleen now works as the first Field Service Technician at Boston Scientific Canada. Within this division, she is a level three technician working on electrophysiology lab equipment throughout the country.</p> <p>Andres Parra is a Colombian Born Canadian and graduated from the Biomedical Engineering Technologist program at St Clair College. During his time at St. Clair he worked in R&D developing medical training phantom electronics and elastomers for True Phantom Solution. He currently works with Tessonics Inc. as an Ultrasound Probe Automation Developer. His roles consist of streamlining and automating the manufacturing process of the Ultrasound systems for spot welders, among other logistical duties. Although his current field of work is not directly related to the medical field, he is able to apply his medical technology knowledge and skills to the Automotive industry.</p>
11:30 – 12:-00	CESO Annual General Meeting		
12:00 -2:00	College Poster Presentations and Lunch in Gallery		
2:00– 2:30	3D printing and clinical collaboration	Frank Gigliotti , Amir Gill– Niagara Health Service	
2:30 – 3:15	Clinical Engineering services in remote areas	Rutvik Patel – Nunavut Peggy Stranges - Honduras	<p>Peggy Stranges, an experienced nurse from Columbus, Ohio led brigades of medical and dental professionals to Honduras for 14 years. She moved to Roatan in 2001 and, as word spread of a nurse in the community, a steady stream of people began seeking Nurse Peggy's medical attention at her kitchen table. Her favorite expression is, "I'm just a nurse." But necessity has also made her a fundraiser, builder, accountant, biomedical engineer, janitor and more.</p> <p>Clinica Esperanza has expanded from her kitchen table to a 4,500 sq ft two floor building with expansion plans for the future to more than double that space. The majority of the clinic's equipment has been donated over the years and if purchased has been used equipment. There is no biomedical engineer on the Island but much can be done with duct tape and a prayer.</p>

3:15-4:15	Technical Problem Solving Challenge: In this session, Biomed techs will tell about interesting troubleshooting problems they encountered and their approach to solving them.	Vincent Lam Shivali Shah Adam DeMeester Gad Acosta Masoud Fakhrabady	
4:15-4:30	Closing Remarks and Door Prizes	Bill Gentles & Mario Ramirez	

Feb 4 Technical Track, Rooms 2A, 2B

Time	Topic	Speaker	Speaker Bio
09:00 – 10:00	Fibertech – scope repair	Henry Hamilton	Henry Hamilton , Endoscope Specialist at Fibertech Canada, has accumulated 23 years of endoscope repair experience. Spending over 7 years as a Service Manager with the world’s largest endoscope manufacturer and 17 years in the 3rd party repair business. The majority of that time with Fibertech. While at Fibertech, Henry has gained extensive experience with Sales, Service, Education and hands on scope repair. He has provided education to numerous sites across Canada with troubleshooting scope issues and providing cost effective solutions.
10:30 – 11:30	Fuji Sonosite Point of Care ultrasound. Clinical Applications and technical support issues.	Michael Taranovsky, Territory Manager. GTA, East Ontario, NS, PEI, NL, FUJIFilm Sonosite Inc. Scott Whittington, Team Leader, Medical Engineering, University Health Network	Michael Taranovsky is a territory manager with Fuji Sonosite. Mike specializes in acute point of care ultrasound, working with all areas in the hospital setting from emergency care, to acute care, to surgical care and beyond. Scott Whittington heads up the team that supports ultrasound, digital radiography, and mammography systems at the University Health Network, Sinai Health System, and the University Health Network. Scott has worked in the biomedical engineering field for over 25 year, completing the biomedical engineering technologist program at Fanshawe College, working at the Doctor’s Hospital, and the University Health Network. Scott has supported point of care ultrasound systems since they first started being used in the clinical setting..

Feb. 4, 5pm - Social Event and Networking – Location TBA