	Cordova Ballroom *Lower level*	*Port of San Francisco & New York* *3rd Level*	*Port of Singapore* *3rd Level*	*Harbourfront Foyer* *2nd Level*	*Harbourfront Ballroom* *2nd Level*	*Port of Vancouver* *2nd Level*	*Port of Macau* *3rd Level*	*Offsite* *BCIT*
Wednesday, May 17 - Day 2								
7:30 am - 8:30 am					**HOT Breakfast in the Trade Show**			
8:40 am - 8:45 am	**Welcoming Remarks** *2023 Conference Chair: Brendan Gribbons*							
8:45 am - 10:00 am	**Keynote 3** **Forty-five years as a clinical engineer, and just getting started** *Matt Bartlich*							
10:00 am - 12:00 pm								**CONTINUING EDUCATION PROGRAM (OFFSITE)** **#CE(C) BCIT 3D Printing and 3D Scanning applications in Biomedical Engineering**
10:10 am - 10:35 am				**Poster Presentations: Wearable and Implantable Sensors** P3.1 Hyperspectral Imaging-based monitoring for Radiotherapy Induced Skin-Toxicity P3.2 Towards User-Independent Physiological Emotion Recognition P3.3 Where? Evaluation of Source-Detector Position in Spatially Resolved Spectroscopy P3.4 Investigating the Relationship Between Prefrontal Cortex Oxygenation and Locomotor Muscle Oxygenation During Incremental Exercise Using Near-Infrared Spectroscopy P3.5 Wearable Microfluidic Sweat pH Sensor P3.6 Can Heart-Rate Monitors Predict Muscle Anaerobic Threshold during Intense Exercise?	**Refreshment Break in the Trade Show**			
10:30 am - 12:30 pm						**Stream CE3: CONTINUING EDUCATION PROGRAM**		
10:45 am - 12:05 pm	**Stream C3: CLINICAL ENGINEERING PROGRAM** #C3.1 Huddle Up: Improving Medical Engineering Safety, Quality And Delivery #C3.2 A Success Story: Improving Documentation Of Medical Device Patient Safety Events #C3.3 Infusion Pump Remediation In Lower Mainland B.C. Health Authorities #C3.4 Diagnostic Group for Elderly Patients With Loss of Autonomy – A feasibility Study #C3.5 Medical Device Layout Guide – Systemic Approach Based on Patient and Medical Device Type	**Stream B3: INDUSTRY INNOVATION PROGRAM** **#B3 The Future of Medical Device Development (With an Eye to the Past)**	**Stream A3: ACADEMIC PROGRAM** **Oral Presentations: Wearable and Implantable Sensors** #A3.1 The Development of Soft Capacitive-based Pressure and Shear Sensor Arrays for the Prevention of Pressure Injuries #A3.2 Blood Flow Restriction Therapy: The Essential Value of Accurate Surgical-Grade Tourniquet Autoregulation #A3.3 Smart Hydrogel Probes to Measure Complex Tissue Mechanics Within Engineered Tumors #A3.4 Video-Based Face and Facial Landmark Tracking for Neonatal Vital Sign Monitoring		**MEDICAL DEVICE TRADE SHOW**	**#CE3 Tech Talk: Cybersecurity in Healthcare: Securing the healthcare environment**		
12:05 pm - 1:30 pm				**Poster Presentations**	**Lunch in the Trade Show** **Student event**			
1:15 pm - 3:15 pm								**CONTINUING EDUCATION PROGRAM (OFFSITE)**
1:30 pm - 3:00 pm						**Stream CE4: CONTINUING EDUCATION PROGRAM**		
1:40 pm - 3:00 pm	**Stream A4/B4/C4 Combined Session** **#A/B/C 4: Innovative Medical Technologies and the Challenges They Pose**		**Stream C4B: CLINICAL ENGINEERING PROGRAM** #C4.1 What Are We Missing? Addressing Critical Elements Of Clinical Engineering Practice In Australia #C4.2 Women Trailblazers in Clinical and Biomedical Engineering #C4.3 Provincial Structure Of Clinical Engineering In Canada And Its Management #C4.4 Implementing Cybersecurity Practices for Biomedical Engineering Departments #C4.5 Current And Best Clinical Engineering Practices In The United States		**MEDICAL DEVICE TRADE SHOW**	**#CE4 Philips Ventilator Workshop Part 1**		**#CE(D) BCIT Hands-on workshop: from 3D models to 3D printed parts**
3:00 PM - 3:30 PM	[redacted]			**Poster Presentations: Biomechanics and Bioactive Metabolites** P4.1 Automated Segmentation of Knee MR Images for Biomechanical Modeling of the Knee Joint P4.2 Re-establishing Impact Speed Requirements for Inducing Commotio Cordis P4.3 Influence of Bone Microarchitecture on the Stressed Volume of Equine Subchondral Bone P4.4 Exploring Walking Entrainment with Vertical Force Oscillations P4.5 Two-Stage Cultivation: An Innovative Method for Augmented Bioactive Metabolites Production from Euryhaline Microalgal Species for Their Utilization in Nutraceuticals	**Refreshment Break in the Trade Show**			
3:30 pm - 5:00 pm						**Stream CE5: CONTINUING EDUCATION PROGRAM**		
3:45 PM - 5:05 PM		**Stream B5: INDUSTRY INNOVATION PROGRAM** **#B5 Machine Learning is Changing Medical Devices: What to Expect and How to Prepare**	**Stream A5: ACADEMIC PROGRAM** **Oral Presentations: Biomechanics** #C5.1 Experimental Study on Surface Quality of Hole and Biological Damage in Bone in Drilling #C5.2 Knee Joint Mechanics Predicted by Subject-specific and Generic Models #C5.3 Investigation of the Heterogeneous Mechanical Properties of the Intact and GAGdepleted Thoracic Aortic Tree using Indentation #C5.4 A Computational Framework to Model the Lifecycle of a Breakthrough Neurovascular Implant: Crimping into Catheter and Deployment Mechanisms	**Stream C5: CLINICAL ENGINEERING PROGRAM** **#C5 Value of BMET Registration/Certification and related Challenges facing Educational Institutions and Employers**		**MEDICAL DEVICE TRADE SHOW**	**#CE5 Philips Ventilator Workshop Part 2**		
5:15 pm - 10:00 pm	**Awards Gala Dinner & Keynote 4** **The Long and Winding Road: 40 Years of Device Development** *Geof Auchinleck*							