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CMBES/SCGB Monthly e-Bulletin

May 2019

Message From the President

From the desk of the President, Mike Capuano

Greetings to all CMBES Members.

For CMBES, there is no time of year more important than conference time. This month we hold the 42nd CMBEC Conference in Ottawa this year. It promises to be a great event. The keynote speakers, themed sessions, training courses, and the exhibit floor are sure to interest all of our expected delegates. The program streams are excellent this year consisting of academic, clinical engineering, and medical device innovation presentation themes. We look forward to this great event. For those attending, please be sure to attend the CMBES Lunch and Annual General Meeting on Friday, May 24th, 12:30 to 1:30PM (Rm 106FG).

MEMBERSHIP UPDATES

From the desk of the Membership Committee Chair, Gad Acosta

With our conference happening soon, it would be a great opportunity to meet our new members who will be in attendance. This is an excellent chance to talk about topics of interest, and how joining CMBES has had positive impacts in our careers.

I remember the conversations I had on my first CMBEC, and after more than a decade with our Society, still keep in touch with members I met then. Kindly join me in welcoming our new members!

Shivali Shah	Fadwa Darwaish
Barry A. Pask	Hariprasad Selvarajah
Isabela Albuquerque	Kristen Beange
Jeosianne Songmene	Natalie Boudreau
Sarah Bruch	Nick Yeh
Hanna Dinovitzer	Jinu Kurian
Miguel A. Antonio	Rodolfo Nino-Esparza
Vinod Gutka	Allison Clouthier
Jeffrey Lao	Kyle JF Daniels

Mustafa Haiderbhai
Abiel Solam Algravez-Velarde
Luke Helpard
Peter D Butt

Theja Ram Pingali
Elizabeth Jestin

CMBEC 42 Update

From the desk of the Organizing Committee Chair, Kim Greenwood

INVITATION TO CMBEC42



CMBEC42 Registration:

Registration for the conference is still open. [Register today!](#)

Continuing Education:

The Continuing Education stream is set. There is a broad range of courses available for only \$20 each! Sign up for one or two courses! The list includes:

- Introduction to Diagnostic Imaging & PACS
- Entrepreneurship Workshop (Intellectual Property Lawyer)
- Shop3D Printing
- AED/Defibrillator
- ESU Training
- Olympus (Endoscopy Inspection Training)
- Water System Standards
- Philips V60 and V680
- Ultrasound Probe Repairs

Schedule at a Glance is available [here](#) for CE dates/times

Twitter:

If you are a Twitter user, be sure to follow @CMBESociety. We can use your to help to promote the Conference by retweeting, liking and using the handle #cmbec42 in your posts.

Keynote Speakers:

We have four Keynote Speakers this year, Dr. Molly Shoichet, Tiago Falk, Dr. Monique Frize and Dr. Carl-Eric Aubin! Don't miss out and register today to attend!

Dr. Molly Shoichet

University Professor and Canada Research Chair, Tissue Engineering Senior Advisor to President on Science & Engineering Engagement Chemical Engineering & Applied Chemistry Donnelly Centre University of Toronto.

"Delivering the Promise of Regenerative Medicine"

Two key challenges in regenerative medicine are survival and integration of exogenous transplanted cells or endogenous stimulated cells. To address these issues, we have designed bioengineered materials that both promote cell survival and enhance the environment in which the cells are transplanted. Using pro-survival factors incorporated into the design of injectable hydrogels and innovative biomolecule delivery strategies, we have had some success in animal models of blindness, stroke and spinal cord injury.

Tiago Falk, PhD, SMIEEE

Associate Professor, INRS-EMT
Director, MuSAE Lab

Artificial Intelligence, Signal Processing, and Wearables: Building Blocks for Healthcare Technologies of the Future Advances in biosensor technologies have enabled the development of new low-cost wearable devices, which are now being explored for remote health monitoring applications. Advances in artificial intelligence, in turn, have resulted in algorithms capable of assisting clinicians improve diagnostic accuracy. Exploration of these elements in combination with advanced signal processing tools to develop healthcare technologies of the future for applications such as gait analysis of the elderly to predict/prevent falls, Alzheimer's disease diagnostics using videogames, and remote stress monitoring of nurses in hospitals will be showcased.

Dr. Monique Frize, Ph.D., FIEEE, FEC, O.C.

Distinguished Research Professor at Carleton University
Professor Emerita at the University of Ottawa

"Gender Balance in Biomedical Engineering"

Current levels of involvement of women in the field of biomedical engineering will be presented and strategies to increase women's participation will be explored. The speaker will provide examples from her viewpoint on the impact of BME works that contributed to society and health care.

Dr. Carl-Éric Aubin, Ph.D., ScD (h.c.), P.Eng.

Full Professor, Dept. Mechanical Engineering, Polytechnique Montreal
Chief Executive and Scientific Officer – Montreal TransMedTech Institute
Scientist & Head, Musculoskeletal Health, Rehabilitation and Medical Technologies Axis-Sainte-Justine University Hospital Center
Assistant Director – Rehabilitation Technopole & Applied innovation, Sainte-Justine University Hospital Research Center

Tier 1 - Canada Research Chair in Orthopedic Engineering

NSERC-Medtronic Industrial Research Chair in Spine Biomechanics "From Scoliosis Treatment Simulators to the Montreal TransMedTech Institute"

- TransMedTech Institute: an open interdisciplinary innovation ecosystem for the development of next generation medical technologies
- Medtech development: driven by users and the dynamics of needs, up to the innovative product implemented in the health system
- Technologies that change the treatment trajectory of children with complex spine deformities

Sponsorship:

CMBEC42 would like to thank our sponsors SciCan and GE Healthcare.

Exhibitors

If you have to discuss equipment needs why not come to CMBEC42 and get all the vendors at the same time?

Our current exhibitors include: Spacelabs Healthcare Canada, Bracco Imaging Canada, McArthur Medical Sales Inc., Acertara, Amico Corporation, Shop3D.ca, SciCan Ltd., Northern Optotronics Inc, Elite Biomedical Solutions, Summit Imaging, DirectMed, Draeger Medical, Philips, High Purity Water Services, Roxon, Ultra Solutions, Masimo, Keir Surgical, Umano Medical and B Braun, MedSet Specialties, Technical Prospects, The Stevens Company Limited, Datrend Systems, Spectramedx Inc, Dixon Med, Zoll Medical Canada Inc, Novatech, Medical Inc., ICU Medical, Getinge, Tekniscience, BOMImed, Olympus, CHS Ltd., GE Healthcare, Medical PM, Baxter Corporation, Avante Patient Monitoring, Fresenius Kabi, BBM Battery, prime Focus Endoscopy, ECRI Institute and ACCESSOTRONIK.

Interested in publishing your story in the monthly e-Bulletin or the quarterly Newsletter? [Contact us](#) to discuss your topic!