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CMBES/SCGB Monthly e-Bulletin

We apologize, due to lack of resources, we will not be publishing the french version this month

February 2019

Message From the President

From the desk of the President, Mike Capuano

Greetings to all members of the CMBES.

A special welcome goes to any new members who have recently joined the society. We're glad to have them join Canada's premier society for medical and biological engineering in academia, industry, and healthcare institutions. A recent meeting of the executive tackled many items that we view as important to the society's current operations and future. Significant items include the upcoming conference in May, the 50th Anniversary Journal, financial updates, future conferences, conference proceedings, awards nominations, and membership updates, etc. Our executive and subcommittee members, who maintain busy and challenging positions in the industry, somehow are able to accomplish great things. My thanks to all of them and to all of you who are involved in biomedical and clinical engineering in Canada. We're looking for more paper submissions for this year's conference and have recently agreed to allow 'late-breaking' abstract-based paper submissions. This will be a last-chance to get your work out there and recognized. Look out for more information in this bulletin or on our website.

Best Wishes,

Mike

Membership Updates

From the desk of the Membership Committee Chair, Gad Acosta

Canada's commitment to diversity has been expressed on numerous occasions, and having members from different nationalities can provide important insights about cultural peculiarities.

For our local members who might be interested in working, studying or teaching abroad, networking with CMBES members can be the point of contact for gathering a better understanding of a future destination.

We welcome associate members from other countries who are interested in finding out of our society, and we hope to see meet you in person at a conference, or hear from you in one of our easily accessible webinars or forum.

In addition to our traditional invitation to welcome the newest members of our society, I would encourage you to share stories about memorable sessions or CMBES members that you have met during our conferences.

Prashiksha Ulak
Haider Bokhari
Bruno Monteiro Rocha Lima
Sonja Markez
Nusrat Jahan
Harpreet Singh
Simon Michon
Julie Kerr
Ahmed Alhazaa
Leighton John Greenstein
Anjana Ranadive
Fabio Rodriguez
Kyle D Boone
Rachel Reding

CMBEC 42 Update

From the desk of the Organizing Committee Chair, Kim Greenwood

INVITATION TO CMBEC42

<https://youtu.be/TgPD2cfNoMk>

Call for Papers:

The call for papers closed on February 1st, 2019. Thank you to all who submitted papers you will see follow up as the reviewers start their work approving papers for the conference.

Call for Abstracts:

The call for abstract is open as of February 1st, 2019. Consider submitting your ideas on a one page paper abstract! The deadline to submit abstracts will be March 9th, 2019.

<https://www.cmbes.ca/news-events/cmbec-conference/cmbec42/call-for-abstracts>

CMBEC42 Registration:

Registration for the conference is now open. Don't delay; the early bird deadline is only available until April 1st, 2019. Book now to get 10% off!

<https://www.cmbes.ca/news-events/cmbec-conference/cmbec42/registration>

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!

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 here for CE dates/times:

<https://tinyurl.com/y9mg8244>

Twitter:

If you are a twitter user, be sure to follow @CMBESociety. We can use you to help promote the conference by retweeting, liking and using the handle #cmbe42 in your posts.

Key Note Speakers:

The committee is very excited to announce 3 of our Keynote Speakers Dr. Molly Shoichet , Tiago Falk and Dr. Carl-Eric Aubin!

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. 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 first sponsor SciCan.

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.

Professional Affairs Update – 2019/02/01

From the desk of Professional Affairs Committee Chair, Michael Barton

Hello, all. Hopefully everyone is surviving the Polar Vortex these past few weeks. It's a bit sleepy vis-à-vis Professional Affairs developments this time of year, but we all will want to watch for Health Canada's Mandatory Reporting as it will come on-line soon.

Review consultations with Health Canada on the draft Mandatory Reporting form for hospitals is wrapping up. (I know for our hospital, we received a draft copy of the new form via the Sentinel Group consultation.) As such, we'll likely be seeing the final version of the form in the near future and will need to have mechanisms in place for this reporting. We will include a link for the final form once it is received. Also, there have been healthy debates about best structures to handle reporting within hospitals. The general, prevailing thought seems to lean towards Risk Management / Legal owning the process and acting as primary contact with Health Canada.

Subject matter experts like Biomedical Engineering would typically lead efforts in gathering of information and providing interpretation and guidance on equipment failure, etc implications in order to include in this problem reporting. Many hospitals across Canada have a similar structure in place to deal with Alerts and Recalls as well as participation in Health Canada's Sentinel Group so, it's seems like a logical extension to use a similar approach for the new Mandatory Reporting for Medical Device problems to Health Canada.

What do you think of these issues? Are there other issues that you would like us to discuss? Or would you like to let us know about happenings or accomplishments of our Biomedes? Drop us a line; we'd love to hear from you. (Michael.barton@nshealth.ca)

SAVE THE DATE

2019 CMBEC42
May 21-24, 2019
Ottawa, ON



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