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# CMBES/SCGB Monthly e-Bulletin

December 2019



## President's Message

*From the Desk of the President, Mike Capuano*

Greetings CMBES members! Welcome to this month's CMBES eBulletin. Hope you've had a great Thanksgiving holiday weekend in October. If you registered for the CMBES Webinar held on October, you would have experienced a great session. It covered the latest trend in Infusion Pump Design and how infusions can vary depending on delivery schemes. It's good to see the CMBES Webinars series continue once again. The CMBES committees continue to work on various initiatives. These include: increasing the number of Student Members, a French version of the CMBES Website, CMBEC 43 (Montreal - 2020), CMBEC44 (Vancouver - 2021), a Universities/Colleges Challenge Award competition, appointing a Chair for the Clinical Engineering sub-committee, adding advertising and an 'Equipment Wanted' segment on the CMBES Website, structure-changes to future conferences, and continued work on the list of 'Letters of Obsolescence' for Clinical Engineering programs. Enjoy this month's eBulletin!

Happy Holidays!

## Vice President's Message

*From the Desk of the Vice President, Andrew Ibey*

I'm not sure what happened to all those great students that I talked to at CMBEC42 in Ottawa! We want you to come and volunteer on some committees don't be shy, connect with us today to help shape our biomedical engineering network in Canada.

Where did 2019 go? I hope that your year has been a success and that you accomplished your goals and reflected on your failures. It is time to set sights for 2020. I challenge you to pick just one of your favourite issues in biomedical engineering, such as supportability, certification

promotion, ethics or cyber security and commit to carrying it forward. It will be growth for you and for our profession.

Don't forget that our joint conference with IEEE EMBS in Montreal 2020 is accepting papers. You can find the link here: <https://embc.embs.org/2020/authors/#submit-a-paper>

Enjoy the holidays and have a safe new year!

## Membership Updates

*From the Desk of the Membership Committee Chair, Gad Acosta*

As the year 2019 comes to an end, now is the perfect time to set aside a moment to reflect and celebrate the accomplishments of this year.

For those who have focused all their professional efforts in making all aspects of healthcare technology development, assessment, training, management, maintenance and repair, Thank You!

It can be said that half of the battle is the completion of these vital tasks, but the rest is making sure best practices are communicated at all levels, particularly to other members of CMBES. This ensures continuity and common progress in the Medical and Biological Engineering field, which can have direct impact in our lives and our loved ones.

We wish all our members memorable and positive moments during the holiday season!

Here is the newest participant of our Society, kindly join me in welcoming him:

Ronald Kim Marshall

## Professional Affairs Updates

*From the Desk of the Professional Affairs Committee Chair, Michael Barton*

As previously mentioned, we will be stretching our technology brains a bit out of the mainstream hospital vein with the next webinar. Reserve the date for **Wednesday, 22 January, 2020 from 12-2pm EST**. Dr. Tiago Falk will be getting us to look into the future a bit with “Artificial Intelligence, Signal Processing, and Wearables: Building Blocks for Healthcare Technologies of the Future.” He will be discussing how advances in biosensor tech have enabled the development of new and low cost Wearables. This is a very timely and hot topic given the health devices market over the last few years... BYOD (bring your own device) is only just getting started! Personal area networks (PANs) and associated devices are proliferating at an accelerating rate as more folks vote for more involvement in their own personal health care by opening their wallets. Will they use Zigbee or lowest power Bluetooth (BT Class 3, at 1mW)? Various versions of these have been tried over the years so; it will be good to get an update on where the fields are headed. Dr Falk will also explore how advancements in artificial intelligence (AI) and signal analysis

have improved diagnostic capabilities and other important factors to make health devices ever better. I can't wait for this talk and hope that you will join us; stay tuned to the main website for the registration link.

Don't forget: December is the month! Vanessa's Law for mandatory reporting of drug and medical device issues comes into force this month. Here's an excerpt from Canadian Patient Safety Institute's reminder (with link to the original here: <https://www.patientsafetyinstitute.ca/en/toolsResources/Vanessas-Law/Pages/default.aspx>.)

“The Protecting Canadians from Unsafe Drugs Act, also known as Vanessa's Law, is intended to increase drug and medical device safety in Canada by strengthening Health Canada's ability to collect information and to take quick and appropriate action when a serious health risk is identified. It will be mandatory for hospitals to report serious adverse drug reactions (serious ADRs) and medical device incidents (MDIs) to Health Canada, effective December 16, 2019. “

Here, also, are links to the Health Canada info page (<https://www.canada.ca/en/health-canada/services/drugs-health-products/legislation-guidelines/questions-answers-regarding-law-protecting-canadians-unsafe-drugs-act-vanessa-law.html>) as well as a link to the actual Act ([https://laws-lois.justice.gc.ca/eng/annualstatutes/2014\\_24/](https://laws-lois.justice.gc.ca/eng/annualstatutes/2014_24/)).

We'd love to hear how your hospital is going tackle management of this new reporting requirement. Will your Biomed Department lead the charge? Will it be your Risk Management Department? Let us know and so that I can tabulate the results and report back in a future column.

Do you have a topic or two that you would like to see explored in the webinar series? Or are there issues that you would like to see discussed in this column? Or how about a colleague (or yourself!) that has some significant news that you would like to share? Please contact me at [Michael.Barton@nshealth.ca](mailto:Michael.Barton@nshealth.ca) and I will try to put it in our next newsletter.

**SAVE THE DATE**

The 42nd Annual International Conference of the  
IEEE Engineering in Medicine and Biology Society  
July 21 - 25



"Enabling Innovative Technologies  
for Global Healthcare"



**Palais des congrès de Montreal**

**-SAVE THE DATE-**



The IEEE Engineering in Medicine and Biology Society is pleased to announce the **42<sup>nd</sup> Annual International Conference of the IEEE Engineering in Medicine and Biology Society**, to be held in **Montreal, Quebec, Canada, July 20th - 24th, 2020**. The theme of the meeting is "Enabling Innovative Technologies for Global Healthcare". As the worlds largest international biomedical engineering meeting. A broad array of scientific tracks will cover diverse topics of cutting-edge research and innovation in biomedical engineering, healthcare technology R&D, translational clinical research, technology transfer and entrepreneurship, and biomedical engineering education.

In addition to the high-profile keynotes, the conference program will feature mini symposia, workshops, special sessions, oral and poster sessions, sessions for students and young professions, sessions for clinicians and entrepreneurs, and exhibits from vendors and universities. Themes include:

**Biomedical Signal Processing**

**Biomedical Imaging and Image Processing**

**Micro/Nano-bioengineering**

**Cellular/Tissue Engineering & Biomaterials**

**Computational Systems & Synthetic Biology**

**Multiscale modeling**

**Cardiovascular and Respiratory Systems Engineering**

**Neural and Rehabilitation Engineering**

**Biomedical Sensors and Wearable Systems**

**Biorobotics and Biomechanics**

**Therapeutic & Diagnostic Systems and Technologies**

**Clinical Engineering**

**Biomedical & Health Informatics**

**Biomedical Engineering Education and Society**

**Translational Engineering for Healthcare Innovation and Commercialization**

**Important Dates**

**Sessions Proposals, Mini-Symposia, Workshops, & Special Sessions**

Submission deadline	Nov 22, 2019
Accept/reject notification	Dec 19, 2019
Final submission deadline	Jan 16, 2020

**Full papers**

Submission deadline	Jan 23, 2020
Accept/reject Notification	April 10, 2020
submission deadline	April 30,2020

**1-page papers (Research Poster Papers)**

Submission deadline	April 17, 2020
Accept/reject notification	April 28, 2020
Final submission deadline	May 3, 2020

<http://embc.embs.org/2020/>

**Organizing Committee**

**Conference Chair – Mohamad Sawan**  
Westlake University

**Conference Chair – Carolyn McGregor**  
Ontario Tech University

**Conference Chair – Atam Dhawan**  
New Jersey Institute of Technology (NJIT)

**Finance Chair– Emilio Sacristan**  
Universidad Autónoma Metropolitana Iztapalapa

**Program Chair – Benoit Gosselin**  
Université Laval

**Program Chair – Joaquin Azpiroz Leehan**  
Universidad Autónoma Metropolitana Iztapalapa

**Program Chair – Dominique Durand**  
Case Western Reserve University

**Conference Editorial Board Chair – Riccardo Barbieri**  
Politecnico di Milano

Atlantic Canada Clinical Engineering Society presents...

## Silver Celebration for a Gold Standard Profession

Moncton, New Brunswick  
April 28 - May 1, 2020



### MILESTONE EVENT

Next year will mark the 25th edition of the yearly ACCES Educational Seminars and Trade Expo. Mark your calendars and join us at the **Delta Beauséjour** from **April 28th to May 1st, 2020**, in the city of **Moncton, New Brunswick**, as we host this marvelous milestone event.

- Keynote address by Member of the Canadian Speaking Hall of Fame, **Paul Huschilt**
- 40+ Exhibitors and Sponsors
- Professional Development & Networking Opportunities
- Advanced Technical Stream, Featuring Latest & Greatest Technologies in Healthcare
- Opportunity to write the Certification for Biomedical Equipment Technician Exam (CBET)

### WHERE IT ALL BEGAN

Commonly referred-to as the “*Hub City of the Maritimes*”, Moncton is the birthplace of our signature event. From its humble beginnings at the Georges-L.-Dumont Hospital in 1995, to the event it is today, the ACCES Educational Seminars and Trade Expo continues to bring together biomedical/clinical engineering professionals and healthcare technology partners from across Canada to exchange ideas and information.

### CALL FOR VOLUNTEERS

While you mark these dates in your calendar, consider the opportunity to contribute to this milestone event by volunteering.

### EXHIBITORS AND SPONSORS

Without your support we would have not come this far. Exhibitor registration site will open early December for this milestone event.

Become a sponsor and take advantage of exceptional marketing opportunities:

- Increase your profile and visibility
- Spotlight your products and services
- Enhance your image and marketing strategy
- Demonstrate your commitment in the field of healthcare technology



- Position your company as a leader

Your support is important to us, if you have any suggestions on how we can improve upon previous years, please reach out to Kirby Farris – Exhibitor and Marketing Coordinator at [kirby.farris@snb.ca](mailto:kirby.farris@snb.ca)

**FOR MORE INFORMATION OR TO BECOME INVOLVED CONTACT:**

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**Natalie Boudreau - ACCES25**

**Conference Chair**

**506.850.7148**

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