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# CMBES/SCGB Monthly e-Bulletin

July 2018

## Message From the Vice President

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I'll take the opportunity to write the first message from our new executive team on behalf of our president Mike Capuano, who, as I write this is attending the IUPESM 2018 - World Congress on Medical Physics & Biomedical Engineering in Prague!

First of all, I would like to give a 'tip of my hat' to our past president Martin Poulin. Martin's leadership has brought many attributes to CMBES including 3 successful national conferences Calgary, PEI, Winnipeg, the World Congress on Medical Physics & Biomedical Engineering in Toronto, an [updated CMBES website](#), [Online CMBEC Proceedings](#), amongst many other achievements. Thank you Martin for your service!

Congratulations to our new executive officers, we are excited to see new members on board namely: Gad Acosta, Brendan Gribbons, Michael Barton and Denis Derome. It will also be great to have the 'deck shuffled' for some of our experienced executive as well to give new perspectives in the executive portfolios. I personally look forward to forming, storming, norming and performing with the new team over the next 2 years under Mike Capuano's leadership. We have our first board meeting in July and so it is still early to announce our strategic direction for the next 2 years. We look forward to reporting back to our members once this is done.

Lastly, a bit thank you to the entire organizing committee for the joint ACCES/CMBEC41

## Message du vice-président

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Je profite de l'occasion, alors qu'au moment d'écrire ces lignes notre président, Mike Capuano, assiste au congrès UPESM 2018 – Congrès Mondial de Physique Médicale & d'Ingénierie Biomédicale à Prague, pour écrire, au nom de notre président, le premier message de notre nouvelle équipe de l'exécutif.

Premièrement, je lève mon chapeau à notre ancien président Martin Poulin. Le leadership de Martin a beaucoup apporté au CMBEC, incluant 3 conférences nationales à Calgary, à l'Î.-P.-É. et à Winnipeg, qui furent toutes trois de franc succès, le Congrès Mondial de Physique Médicale & d'Ingénierie Biomédicale à Toronto, la mise à jour du [site web du CMBES](#), les présentations des [CMBEC en ligne](#), parmi de nombreuses autres réalisations. Merci Martin pour ton engagement!

Félicitations à notre nouvel exécutif, nous sommes excités de voir de nouveaux visages à bord : Gad Acosta, Brendan Gribbons, Michael Barton et Denis Derome. Le jeu de chaise musicale parmi certains autres membres d'expérience de l'exécutif sera également génial afin de donner de nouvelles perspectives dans les dossiers à traiter. Je suis personnellement impatient de participer, de prendre d'assaut, de standardiser et de performer avec la nouvelle équipe au cours des deux prochaines années, sous la direction de Mike Capuano. Nous aurons notre première réunion du conseil en juillet alors il est encore trop tôt pour annoncer notre orientation stratégique pour les deux prochaines

conference in Charlestown, PEI. I understand it was a success. Mark your calendars for CMBEC 42 in Ottawa, May 21-24, 2019.

If you have any ideas, comments or concerns, please be sure to contact us!

Andrew Ibey

années. Nous sommes impatients d'en faire part à nos membres une fois que cela sera fait.

Pour terminer, j'aimerais offrir un gros merci à l'ensemble du comité organisateur de la conférence conjointe ACCES / CMBEC41 à Charlottetown, Î.-P.-É. Je comprends que c'était un succès. Ajouter à vos calendriers le CMBEC 42 à Ottawa, du 21 au 24 mai 2019.

Si vous avez des idées, des commentaires ou des préoccupations, s'il vous plaît n'hésitez pas à nous en faire part !

Andrew Ibey

## Message from the CMBES Past President



Dear Friends,

I'm just coming down off a busy week of work and theatre so finally getting a chance to say "Thank You" for honouring me with the Leadership Clock at the conference.

It's been a pleasure to work with such a collaborative group over the past 4 years.

Let's keep the momentum going and continue to strengthen the society as the role of Biomedical Engineering continues to grow in our country.

Cheers,

**Martin Poulin**

## Wrapping up the CMBEC41 Conference!

Thank you so very much for taking the time to participate in the ACCES23-CMBEC41 Joint Conference this year. We sincerely hope you enjoyed your time at the conference and in Charlottetown. The event was a resounding success thanks to the contributions of CMBES and ACCES members, our exhibitor community and our fabulous organizing committee.



## 2018 CMBES Awards at the CMBEC41 Conference

*From the desk of the Awards Committee Chair, Murray Rice*



**Outstanding Research Competition Winner:**  
**Sarah Kelso, Winnipeg Regional Health Authority: “Developing a System to Support Equipment Repair Versus Replacement Decision Making”**

### **The Student Paper Award Winners:**

1st Prize - **Michael Zara**, Ryerson University

2nd Prize - **Jinu Kurian**, Carleton University: "Image Processing and Analysis of Histopathological Images Relating to Hirschsprung's Disease"

3rd Prize - **Gelareh Hajian** - Queens University "Improving Wrist Force Estimation with Surface Emg During Isometric Contractions"

## **Save the Date - CMBEC42 in Ottawa!**

Planning is already underway for next year's conference! CMBEC42 will be held at the Ottawa Conference and Event Centre in Ottawa, Ontario from May 21-24, 2019. Save the date and plan to join us for this educational event in our nation's capital.

## **Thank You To the CMBES Volunteers!**

Thank you to our wonderful and amazing volunteers who support our Society! Listed below are members of various committees who have been contributing many hours of hard work during the year; they are working diligently on a number of projects and truly deserve our commendations and appreciation. We would like to give a special thank you to each and every one of them. Volunteers are truly the backbone of our Society; people we need and value; they immeasurably improve and enhance our Society and our industry. These are the outstanding and remarkable people who have chosen to dedicate their energies to supporting the members of CMBES, today and always, we salute you and thank you so much!

### **Thank-you to Membership Committee Members!**

It is with much gratitude that we want to acknowledge all of the hard work and dedication of the current Membership Committee Members. We have had a very productive year, although there is always much more work to do. We are especially thankful to Gad for agreeing to lead the committee's work going forward as incoming Chairperson.

#### **A very big thank-you to:**

Denis Derome	Mike Capuano
Gad Acosta	Rajeev Yadav
Marie-Ange Janvier	Tiago Falk
Martin Poulin	

## **Call for CMBEC42 Conference Planning Volunteers**

To make the conference a success, we are looking for volunteers. The commitment would involve tele conference meetings to plan things, and then do some work, planning, contacting people, etc. in between these meetings. It is a good opportunity to gain leadership skills, network and get to know your colleagues, contribute to the profession, and have some fun. If you are interested in volunteering for this sub-committee, please contact Sarah Kelso: [sarah.a.kelso@gmail.com](mailto:sarah.a.kelso@gmail.com).

The conference needs volunteers to help in the following areas:

### **Clinical Engineering Program**

Help develop content and coordinate session for the Clinical Engineering Stream. Help organize the program session chairs, or be a program session chair.

### **Academic Program**

Help develop content and coordinate session for the Academic Program. Help organize the academic program, or be a program chair. Help to review the papers that are submitted to the conference. Be a judge for the papers that are presented at the conference.

### **Continuing Education**

Help develop and organize the continuing education courses that will be held at the conference. Come up with good topics that you think people would be interested in and find the appropriate person/group to give the course

### **Exhibits and Sponsorship**

Work with our industry partners to participate in the conference as exhibitors or sponsors. Work on material to send to the vendors, and follow-up with them to see if they have questions.

### **Help Arrange for Keynote Speakers**

Do you know of someone you would really like to hear speak? You could help with the conference by arranging for someone to come speak. Coordinate the details of their coming, put together the information for the talk for the program, and conference publicity, help with an appropriate thank-you gift for the speaker.

### **Local Arrangements**

Help to organize the banquet and social events. Helps to arrange transportation of the conference attendees needed to be bussed somewhere for the banquet. Possibly help with student volunteers, take photos at the conference...

### **Publications**

Help to put together the program for the conference. You may know of a phone application that would work well for people to access to see the program. Help promote the conference by organizing announcements in trade journals, reaching out to colleagues...

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## **Publications Committee Update**

*From the desk of the Publications Committee Chair, Brendan Gribbons*

Dear Colleagues,

I'd like to introduce myself as the new Publications Chair for CMBES. I completed my Master's Degree in Biomedical Engineering from the University of British Columbia, and I am now a Clinical Engineer with Lower Mainland Biomedical Engineering in Vancouver, B.C. I will be continuing on with the hard work that Dr. Tidimogo Gaamangwe has contributed over the last two years as previous Chair of the Publications Committee. Dr. Gaamangwe has graciously

offered to remain as a member of the Committee. On that note, I'm recruiting volunteers to help support the publications related work of CMBES! If you're interested in volunteering your time with the Publications Committee, please contact me at [brendan.gribbons@vch.ca](mailto:brendan.gribbons@vch.ca). More news and information to come!

Thank you,  
Brendan Gribbons

## Professional Affairs Committee Update

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

Well, we've had a rather busy month since the last newsletter. Many of us gathered in PEI to refresh professional acquaintances or perhaps make new ones. It was my pleasure to join the executive and lend my energies to supporting our field of biomedical engineering in all its wonderful and varied forms across this great nation of ours. I've also had several interesting articles from the literature recommended for review in this month's bulletin.

First is an article from the Journal of Clinical Engineering by Nikhil Kanamala and Kritananda Teeluckdharry, entitled: "Improving the Quality Management System of the Biomedical Engineering Department at Niagara Health as per Best Practices Recommended by Canadian Medical and Biological Engineering Society." The authors show how they used the opportunity of a CMBES Peer Review to really delve into their practices and quality systems. This was much more practical than just getting a certificate at the end, since it helped them realign their new system and processes to "better serve the purpose, vision, values, and success factors of Niagara Health." I think that many of us express the feeling that "this is my patient, too" so, the Peer Review process is proven here to live that core biomedical engineering belief. And it has helped them also set sights on a longer-term improvement plan, with the next phase of their peer review coming up in the fall. A fine example of continuing quality improvement.

[Here](#) is the link for the full article:

Next we have an invitation from the World Health Organization. The WHO is asking for participants in their "Medical Device Nomenclature Survey." Participants will be asked to answer a short survey (5-7mins). We encourage CMBES members to volunteer and complete the survey to provide not only your perspective, but more importantly a Canadian perspective for consideration on the world stage. The survey can be complete anonymously, as well, if you prefer.



### Nomenclature of medical devices

This survey is intended to analyze the use cases and support the availability of a global nomenclature and classification system for medical devices, for the final purpose of increasing access to medical devices globally. We would like to hear the opinions and experience of people who manufacture, assess, procure, regulate and manage medical devices.

If you deal with issues related to naming, coding or classifying medical devices please proceed, if not please be free to send the link to this survey to colleagues that deal with these issues. Thank you very much.

(Here is the survey link: <https://extranet.who.int/dataform/788481>)

Finally, the FDA released their report on May 15 regarding their review of third party servicing of medical technology. They concluded that there is insufficient evidence to support the addition of more regulations governing the work done by clinical engineering departments and independent service organizations. Interestingly, they found that most complaints and adverse events associated with “maintenance” were actually due to “remanufacturing” and not ‘servicing’.” This certainly seems proof positive for why we use the proper parts and the proper procedures to do our work. The FDA official finding is also pragmatic, as summarized by: “The continued availability of third party entities to service and repair medical devices is critical to the functioning of the U.S. healthcare system.”

To my mind, the more interesting points coming out of this position paper have to do with the four key actions that the FDA will take in follow-up. These are:

1. “Promote the Adoption of Quality Management Principles;”
2. “Clarify the Difference Between Servicing and Remanufacturing;”
3. “Strengthen Cybersecurity Practices Associated with Servicing of Medical Devices; and”
4. Foster Evidence Development to Assess the Quality, Safety and Effectiveness of Medical Device Servicing.”

Though I’ve provided a few quotes and points from the article, the full report has a wealth of information to review and can be found [here](#)

What did you think of these articles and what did you find most interesting? Or are there other articles of interest that you might like us to mention in next month’s newsletter? Let us know: we’d love to hear from you.

## Membership Publications Spotlight

If you or your organization has published and it would be of interest to our CMBES membership, we’d like to know about it. Please contact the secretariat with a copy of your work so we can showcase in Membership Publications Spotlight!

## National Biomedical Engineering Appreciation Week - May 20 – 26, 2018

Happy National Biomedical Engineering Appreciation Week! To celebrate, Sodexo’s Biomedical Team at Mackenzie Richmond Hill Hospital hosted an open house event. All staff, physicians, volunteers and community members were invited to the Biomedical Lab where a variety of booths were setup to showcase the different medical devices and various lifesaving technologies that are used throughout the



expertise!

hospital. Everyone had the opportunity to ask questions, enjoy snacks, and enter the raffle for prizes.

A special thank you to the Biomedical Team for all of their hard work and for sharing their

## ACCE Body of Knowledge Survey

Dear Colleagues,

We need your help! As a valued CE/HTM, your response to this survey will provide valuable data on how clinical engineering is practiced today. It will take no more than 15 minutes of your time. In exchange for your valuable time, you will be entered into a drawing to win one of 3 prizes:

- One-year complimentary ACCE membership (new or renewal)
- \$30.00 Amazon Gift Certificate
- \$30.00 Amazon Gift Certificate

The results will be compiled and analyzed by ACCE for use by the United States and Canadian Board of Examiners for Certification in Clinical Engineering in designing the Certification in Clinical Engineering exam.

You may also forward this survey to colleagues in your organization/region, so they can also participate in this survey. Please assist ACCE with developing the scope of practice and knowledge used by clinical engineers in their day-to-day work by taking this survey today!

Please [click here](#) to take the 15-minutes survey



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## 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!