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CMBES/SCGB Monthly e-Bulletin

November 2016

Message From the President

From the desk of the CMBES President, Martin Poulin

Greetings Biomedical Engineering Community,

Listed below are the proposed goals of the organization for the next couple years. If you have feedback on initiatives you would like to also see included, please drop me an email or call me.

- Increase membership to greater than 320 members.
- Update and improve the website with marketing input to improve access for members
- Finish the setup of a structured portal for academia to access previous conference papers.
- Create French translation of website
- Translate CESOP to French (draft 2015)
- Define a better structure to manage CCE and CBET certification processes in Canada
- Complete policy and procedure manual

Regards,

Martin

Message du président

Du bureau du président de SCGB, Martin Poulin

Salutations Communauté du Génie biomédical,

La liste suivante présente les objectifs de l'organisation pour les prochaines années, si vous avez des suggestions, ou d'autres initiatives que vous aimeriez ajouter, contactez-moi par courriel ou téléphone.

- Augmenter le nombre de membres au delà de 320
- Mettre à jour et améliorer le site Internet avec une équipe de Marketing pour améliorer l'accès et les services pour les membres
- Finir la mise en place d'un portail structuré pour que l'on puisse accéder aux articles scientifiques des précédentes conférences pour le volet académique
- Créer la version francophone du site Internet
- Traduire le CESOP en français en continuant les travaux amorcés avec la version préliminaire de 2015
- Définir une meilleure structure pour gérer les certifications CCE et CBET au Canada
- Compléter le manuel de politiques et procédures interne

Cordialement,

Message from the Vice President

From the Desk of the CMBES Vice President, Mike Capuano

September was an important month for the Medical Engineering Department at Hospital for Sick Children (HSC). They were informed that the CMBES granted successful completion of the peer review conducted last June. This was accompanied by a full report and the pending issue of display certificates indicating a 3 year expiration. The initiative was led by Mario Ramirez, Director of Medical Engineering and championed by Vice President, Sarah Muttitt VP/CIO at HSC. The Medical Engineering team at HSC deserves high praise for the extensive effort put into this endeavor. Preparations and improvements were conducted well over a year prior to the on-site visit. On behalf of the CMBES, I congratulate all involved in the review including the outstanding review team. These are volunteers from our CMBES Peer Review Committee: Fern Lebron, Jean Ngoie, David Gretzinger (Team Intern), and myself. Watch out for an in-depth report on this in the next CMBES Newsletter!



Mike Capuano (right centre) and Jean Ngoie (far left) pose with the Medical Engineering team at HSC.



Mike Capuano, Fernando Lebron, David Gretzinger and Jean Ngoie interview with an important customer of Medical Engineering at HSC.

Also, as mentioned in a previous E-Bulletin, I was dispatched to Minneapolis to participate in a recent Biomedical Engineering Society (BMES) Annual Meeting (conference). In this I presented society, biomedical engineering, and industry information from both CMBES and Canadian perspectives. It was great to rub shoulders with presidents of other biomedical engineering societies (e.g. USA, China, Korea, and Australia/New Zealand). The panel discussed various ways we can attract more interest abroad and how to exchange and share in important research activities. Dr. Damir Khismatullin (3rd from right in photo), Associate Professor of Biomedical Engineering at Tulane University (New Orleans), led the forum and has visions of increased collaboration amongst societies in different countries. I attended their International Affairs Sub-committee meeting the following day. There it was discussed that we should embark on setting up an international symposium to occur jointly with the annual BMES meeting. I will continue to report on this initiative as it progresses.



The international contingent at BMES in Minneapolis, Minnesota.

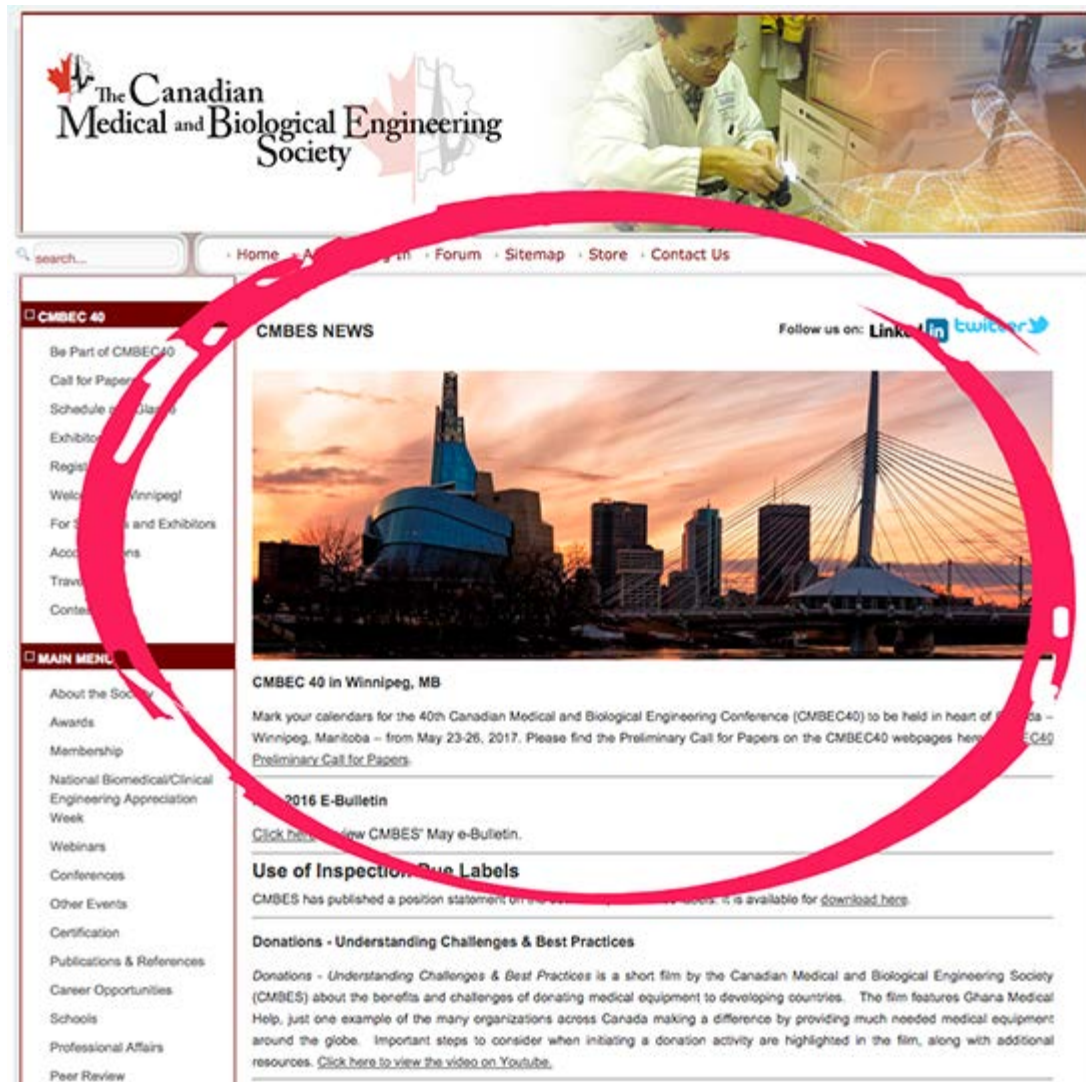
CMBEC40 Website is Online!

From the desk of the CMBEC40 Publicity Co-Chairs, Sarah Kelso and Rebecca Austman

CMBES annual conference, CMBEC40, will be held in Winnipeg, MB from May 23-26, 2017.

For all information on the conference, go to www.cmbes.ca and click on the CMBEC40 menu

on the top left of the webpage. Details on the Call for Papers, Preliminary Program, Special Events, Travel and Accommodations, and other important topics will be collected here. Resources are growing fast and the information will be updated weekly, so check back often.



If you have any questions about CMBEC40 that aren't answered on the webpage, please don't hesitate to contact the CMBES Secretariat at secretariat@cmbes.ca.

Want to win a free registration to CMBEC40? Enter our Twitter contest!

Be one of the first **500 people** to Follow **@CMBESociety** on Twitter to stay up to date on Society and Conference news AND be entered in a draw to win a free registration to CMBEC40!

It's free! It's EASY! Follow **@CMBESociety** today!

Additional details at www.cmbes.ca.

Update from the Publications Committee

From the desk of the CMBES Publications Committee Chair, Tidimogo Gaamangwe

This is another friendly reminder to submit articles for the upcoming CMBES Newsletter. The newsletter publication has been delayed and will be coming out early November. Please submit your articles by November 7. As always, short stories in any subject of your interest or pictures are welcome.

If you have any comments or questions, please feel free to contact the [Secretariat](#).

We look forward to hearing from you!

CMBES Member Publication Spotlight

From the desk of the Professional Affairs Chair, Andrew Ibey

The current issue and full text archive of this journal is available on Emerald Insight at
www.emeraldinsight.com/1754-2731.htm

Application of the IEC80001 standard towards integration of a real time alarm communication and management system

Application of
the IEC80001
standard

397

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Accepted 21 March 2015

A case study

Kyle Eckhardt
Winnipeg Regional Health Authority, Winnipeg, Canada
Andrew Hayes
Manitoba eHealth, Winnipeg, Canada, and
Michael Hamilton and Tidimogo Gaamangwe
Winnipeg Regional Health Authority, Winnipeg, Canada

Abstract

Purpose – The purpose of this paper is to report on use of the IEC80001 standard, Application of Risk Management for Information Technology (IT) Networks Incorporating Medical Devices, to deploy a wireless alarm management solution in a long-term care home facility.

Design/methodology/approach – The standard suggests the use of a unique responsibility matrix and a continuous quality improvement approach for analysis, evaluation and control of risks. A unique leadership committee and workgroup were formed to develop processes and procedures for integrating medical devices with IT systems; as well as execution of the project itself. The leadership committee oversaw the phased approach of assessing the technology, the clinical environment, proponent technology-based solutions and a specified risk management file. The project expanded its scope beyond the standard to include a risk focussed analysis of clinical workflow to evaluate the usability of the solution.

Findings – The standard focussed approach identified numerous risks associated with the technical and network solution and the future state workflow. Medical devices proved to be the most limiting technology needing to be incorporated into the solution. Although faced with a daunting list of network related risks, it was concluded that all residual risks would have been acceptable. The analysis of the future state workflow identified various risks related to usability (human factors), battery management and the absence of additional operating dollars for supplementary staffing duties and new operational expenses.

Originality/value – To the best of the authors knowledge, this paper is the first one to detail the process of following the IEC80001 standard in Canada. It offers insight into building an organizational framework around the standard and identifies areas that should be considered for execution and project

Who: Winnipeg Regional Health Authority – Clinical Engineering Program

Overview

Emerging environments of care, which are increasingly integrating medical devices with information technology networks, have raised particularly complex security and patient safety issues for healthcare delivery organizations. The Winnipeg Regional Health Authority has established initiatives to address complex and system wide quality and patient safety concerns. It has chosen to take a standards based approach to approach risks emanating from medical device integration. The standard focuses on minimizing harm in three categories, safety, effectiveness and security. Its focus is geared towards networks and information systems carrying real-time patient information (e.g. Clinical alarms and notifications). The standard outlines roles and responsibilities for those involved in evaluating technical options, clinical requirements, vendor supplied solutions, deployment and ongoing operation.

Highlights

- The is the first paper to describe the process of following the standard in Canada
- Offers insights into building and organizational framework to support the ongoing use of the standard
- Identifies gaps in approaching technology evaluation that are not mentioned in the standard

Scope

The paper describes how the IEC80001 standard was integrated into a project and procurement framework, from defining technology specifications, gathering clinical requirements, equipment tenders, evaluation of clinical requirements against the clinical requirement and the standard, and project conclusion. It also discusses how to establish and work within the organizational structured defined by the standard.

Intended Audience

Professionals involved in managing or directing a clinical engineering department – Medical equipment and information technology integrations, risk management, biomedical engineering, clinical engineering, healthcare technology management

<http://dx.doi.org/10.1108/TQM-01-2015-0017>

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!

CMBES Forum Update

From the Desk of the CMBES Secretary, Kelly Kobe

Have you been keeping up with the CMBES Forum? To join in, simply sign into your [CMBES Network account](#) and select "Forum" from the drop down box. Outlook users can also receive CMBES posts in their inbox by following some simple [instructions](#). If you haven't logged in recently, here's some of what you've been missing:

[Documentation of service activities](#)

October 4, 2016 – by Bud Haycock

We are starting to discuss the topic of standardized documentation here at AHS. There are several current documentation practices which differ across the province. I have been looking for a "standard" that would.....

[Procedures for Disinfecting Central RO/loop](#)

September 16, 2016 – by Manno

I am looking for Procedures How to Disinfect Central RO system/Loop in a Dialysis Clinic and what...

[11th International Conference on Clinical Pediatrics](#)

September 7, 2016 – by Amy Jones

Conference series LLC is privileged to announce **11th International conference on Clinical Pediatrics** which is to be held during June 29–July 1, 2017 in London, UK. We cordially welcome all....

UPCOMING EVENTS

May 23 – 26, 2017

CMBEC40, May 23 – 26, 2017
Winnipeg, MB



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