Join ACCE at AAMI Exchange, Cleveland

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President’s Message

Greetings from sunny California!

ACCE will have yet another strong presence at the AAMI Exchange in June 2019. ACCE sponsored sessions include the Global Track, Clinical Engineering Symposium, and two educational sessions (CE track). Many ACCE members are also doing important AAMI presentations on their own. Don’t forget to stop by the ACCE Booth in the exhibit hall (booth#1135) and join us for the ACCE Awards/Members reception.

We appreciate the Clinical Engineering Symposium task force for their efforts in organizing the CE Symposium and the two education sessions at AAMI Exchange. The members of the task force were: Danielle Cowgill, Carol Davis-Smith, Jim Caporali, Mike Busdicker, Eric Aring, Priyanka Upendra, Ilir Kullolli, Micah Brown, Dave Braeutigam, and Suly Chi.

In April 2019, many ACCE members presented key sessions at the Houston MD Expo. The ACCE Body of Knowledge (BOK) Committee had a great presentation where they unveiled the results of the 2018 ACCE BOK Survey.

The International Committee has been busy setting up collaborations with international clinical engineering organizations. The details of all these and other activities are in this newsletter and on the ACCE website.

CCE Study Guide V8.0

The BOK committee has set up a task force to update the CCE Study Guide. This guide will be available in July 2019 and will have 26 revised sections. Many thanks to the members of the task force that include Lúcio Brito, Mark Bruley, Ismael Cordero, Megan Friel, Firat Murat, Dave Gretzinger, Katherine Navarro, Bhavesh Patel, Syed Rehman, Sara Salari, and Binseng Wang.

Certification

ACCE is starting a Certification Task Force to encourage and promote certification among clinical engineers. Interested certified clinical engineers are strongly encouraged to send their intention to join this task force by emailing Suly Chi (secretariat@accenet.org). The application deadlines for the November 2019 CCE exam dates are fast approaching. See the Certification tab on the ACCE website for more details. Contact Sandy Allen at certification@accenet.org if you have questions.

Over 20 candidates are taking 2019 CCE oral exams in Cleveland.

Board Elections

In July 2019 you will be receiving a notification about the new ACCE Board elections. Make sure to check your inbox.

See you in Cleveland!

Arif Subhan, President, ACCE
president@accenet.org
Help Wanted: ACCE News Co-Editor

The ACCE News team is recruiting for a co-editor to join our team. Primary responsibilities of this volunteer position is to edit three editions of the newsletter per year. Editing includes coordinating article submissions, newsletter layout, writing headlines and editing articles. Assisting with final edit review of the other three issues, as well as occasional other ACCE News-related tasks are also part of this job.

Many thanks to Jared Ruckman for his editing and help over the last eight years.

If you are interested or would like additional information, please contact Ted Cohen, Co-editor, or Jim Keller, Managing Editor at their e-mail addresses below.

Ted Cohen, Co-editor, ACCE News
tedcohen@pacbell.net

Jim Keller, Managing Editor, ACCE News
jpkellerjr@verizon.net
June Educational Webinar
Best Practices for Capital Equipment Planning
Presenter: Carol Davis-Smith, CCE, FACCE

Date/Time: Thursday, June 13, 2019: 12:00 pm - 1:00 pm (ET)
Register today! complete registration form

Please complete this short survey about ACCE News

The ACCE News editorial team is seeking your input on ways we can improve the newsletter and the information we provide to our membership. Please scan the QR code or click the link below, and complete the survey questions.

https://www.surveymonkey.com/r/ACCE-News
Prepare to get certified in Clinical Engineering!

ACCE 2019 CCE written exam review webinar series

Date: Wednesdays – August 14 through October 16, 2019
Time: 12:00PM – 1:00PM (Eastern Time)

Faculty: Matthew Baretich, Tobey Clark, Ted Cohen, Frank Painter.

Registration Deadline: August 5, 2019

This 10-session series will be presented by an elite team of ACCE Faculty who are CCEs. The class will outline and present the material in each of the main subject areas covered on the exam. The course will help you identify areas in which you need further review and help in preparing for the CCE examination. Attendees will receive a copy of the CCE Study Guide and a copy of the presentation material.

Email your registration form to secretariat@accenet.org
Rates are pro-rated according to this World Bank classification table

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Disclaimer: This course is prepared and offered by individuals who are not involved in the preparation of the CCE Exam.
ACCE is a Contributing Organization for AAMI Exchange 2019. ACCE current members are eligible to register for the conference at discounts off the non-member registration fees.

**Clinical Engineering Symposium: (presented by ACCE)**
The In’s and Out’s of a Clinical Engineering Program

**Date:** Saturday, Jun 08, 2019, 8:00 am-10:30 am

**Location:** Huntington Convention Center, Ballroom A

ACCE would like to thank our Coffee Break Sponsor.

In the ever-changing landscape of healthcare, the field of clinical engineering must change just as rapidly. This symposium will begin with a discussion around personnel management including career development, succession planning, and examples of successful programs for all levels of personnel. This will be especially focused on frontline and entry-level staff.

The second half of the symposium will be a round table discussion on the future of clinical engineering. Various topics that may be discussed include the role of Clinical Engineering/HTM in cybersecurity, home diagnostics, virtual reality, clinical informatics and clinical decision support, robotics/3D printing, and more!
ACCE at AAMI continued

Education Sessions by ACCE

Date/Time: Sunday, June 9, 2019, 8am – 9am
Location: Convention Center, room#22

Topic: “Clinical Engineering Project Management 101”
Speakers: Ray Laxton/Sutter Health & David Francoeur/TKA-Tech Knowledge Associates

Description: Technical project management is traditionally taught with IT projects. As Clinical Engineering merges with IT, the scope of project management expands especially when involving clinical settings and medical departments. Principles and fundamentals of clinical engineering project management can be scaled to larger and more complex projects as the environment shifts.

Date/Time: Monday, June 10, 2019, 8am – 9am
Location: Convention Center, room#22

Topic: “Elevating the CE-HTM Department: Getting Out of the Basement”
Speakers: Mike Busdicker/Intermountain Health & Perry Kirwan/Banner Health

Description: Clinical technology departments are notorious for being found in the basement of the hospital. But just because you’re underground doesn’t mean that you’re unnoticed or unimportant at your organization. Frontline staff can learn how to ‘get out of the basement’ and elevate yourself at your organization by aligning with organizational goals, developing KPIs, and making yourself a more valuable asset.

Global Track (Organized by ACCE, in association with AAMI and IFMBE/CED)

On Friday, June 7, 2019: 4-5pm, join Arif Subhan, ACCE President at the Global Reception

Saturday-Monday sessions global track samples:

Saturday, June 8, 8am – 9:10am, CC room#6
Global Best Practices in HTM/CE, Part A
Saturday, June 8, 9:15-10:15am, CC room#6
Medical Device Incident Reporting and Investigations in the US and Japan: (JSMI/JCE/ACCE)
  Presenters:
  Fumika Aoki, Japan Association for the Advancement of Medical Equipment/JACE
  Larry Fennigkoh, Milwaukee School of Engineering/ACCE

Sunday, June 9, 8:00 am – 10:15 am, CC room#6
Global Best Practices in HTM/CE, Part B

For the complete global track program visit:
https://www.aami.org/AAMIExchange/content.aspx?ItemNumber=7361&navItemNumber=7362
ACCE at AAMI continued

29th ACCE Annual Members meeting and Award Reception
RSVP: [Click Here]

Location: Hilton Cleveland Downtown, Hope ABC, 100 Lakeside Avenue East, adjacent to the convention center.
Date: Saturday, June 8, 2019, 7:30PM – 10PM

♦ Accomplishments (2018-2019)
♦ Awards Ceremony: congratulations to the 2019 Advocacy Awards recipients
♦ New fellow members - 2019
♦ Hall of Fame inductees – class of 2019
♦ Reception/networking

ACCE would like to thank our annual meeting sponsors:

![Sponsors Logos]

Visit the ACCE Booth at the AAMI Exhibit Hall

ACCE at Huntington Cleveland Convention Center Exhibit Floor, Booth# 1135

- Learn about
  - The new teleconference series
  - Certification in Clinical Engineering
  - Membership programs
  - Volunteering opportunities
  - The mentoring program
  - ACCE International activities
- Connect with old and new friends
- Check/update your membership status
- Purchase your ACCE memorabilia
Congratulations to the 2019 Student Paper Competition Winner!

Cooper Schwabe
Graduate student at University of Connecticut

**Paper:** “Understanding the electromagnetic interference associated with Clinical Mobile Computers and Oscillatory Ventilators”

Congratulations to the 2019 Student Scholarship Winner

Ana Paulette Arreygue Chavez
Graduate student at University of Connecticut
Clinical Engineering intern at Massachusetts General Hospital

The 2019 ACCE scholarship ($1,500) will be presented to Ana Paulette Arreygue Chavez at the 2019 ACCE members meeting and awards reception on June 8, 2019 in Cleveland, Ohio.

The following is a clip of her essay showing her dedication to the Clinical Engineering profession:

“As soon as I started my undergraduate program, I knew I wanted to be in the clinical engineering field. I believe hospitals are where the real needs are to help people. While I was doing my undergraduate studies, I did internships in general hospitals where I could never stop thinking about the many processes in technology management could be improved. The area I worked in was medical IT. Once I graduated, I worked for Hova Health, a third-party company that offers biomedical engineering services to general hospitals.

I was accepted to the clinical engineering graduate program at the University of Connecticut, I stopped working and dedicated those few months to help a low resource-community called “Lagunillas” in Mexico. With a coworker we reestablished their rehab unit that was flooded during the rainy season and was left with numerous equipment failures.”

Congratulations to Ana Paulette!

**Join us at the 2019 ACCE Awards Reception, June 8, 2019 @7:30pm, Hilton Cleveland Downtown**
Collaborative Community on Servicing Medical Devices Established

A cross disciplinary group of industry, independent service organization, and hospital representatives have begun working to develop a collaborative community as a result of the December 2018 FDA Meeting on Medical Device Servicing and Remanufacturing. A collaborative community is a continuing forum in which private and public sector members, including the FDA, work together on challenges to achieve common objectives and outcomes.

How did We Get Here?

In May 2018, FDA published a report titled “FDA Report on the Quality, Safety, and Effectiveness of Servicing of Medical Devices”. This report and the follow-up summit in December of 2018 indicated that:

- Available evidence is not sufficient to determine if there is a widespread health concern that would justify additional regulation for medical device servicers.
- Third party servicers provide high quality service and are critical to US healthcare.
- Reports of inadequate servicing were more remanufacturing issues and not directly related to servicing issues.

However, the report proposed ongoing activities that might warrant the creation of a Medical Device Servicing Collaborative Community. These activities include:

- Clarifying the difference between servicing and remanufacturing (2019 draft guidance coming before September by FDA).
- Promoting the adoption of a Quality Management System with an emphasis on documentation.
- Strengthening cybersecurity associated with servicing.
- Fostering evidence development to assess quality and effectiveness of medical device servicing which needs to be a multi-stakeholder event.

A cross disciplinary team of industry OEM representatives, healthcare delivery organizations, and third part service organizations have begun meeting to discuss the possible creation of this collaborative community.

Where are We Now?

A first meeting was held at AAMI headquarters on April 26th, 2019 to discuss the official creation of this collaborative community. Topics discussed included the community structure, fair representation, and the purpose/mission for this community. The outcome of the meeting was that each stakeholder group (Healthcare Delivery Organizations (HDO), Independent Servicing Organizations (ISO), OEM/Manufacturers, and Government/Regulatory agencies) was to identify 5-6 representatives for their stakeholder group that may be appointed to the steering team. The steering team will then develop a charter, mission for the community, and possible topics for working groups to address.

ACCE has designated a member as one of the HDO representatives to represent all ACCE members. Your current representative to this group is Samantha Jacques, PhD, FACHE, Director of Clinical Engineering at Penn State Health. Other HDO representatives are:

- F. Mike Busdicker, CHTM, FACHE, System Director of Clinical Engineering at Intermountain Continuum of Care

Mike Powers, MBA, CDP, Clinical Engineering Supervisor at Christiana Care Health System,

Kristina Jacobs, MS, CCE, Biomedical Engineering at the US Department of Veterans Affairs

D. Courtney Nanney, BSBME, CCE, CLSGB, National Quality Manager, Clinical Engineering at Catholic Health Initiatives

Christopher Nowak, CBET, CHP, CSCS, Senior Director Information Services Health Technology Management at UHS

Next Steps

For those attending the AAMI Exchange in June, storyboards of the discussion are available for viewing. Additionally, a meeting of healthcare delivery organizations will occur at AAMI on Sunday June 9 at the Hilton in Cleveland. Education and information will be provided to those who attend and feedback on topics the collaborative can work will be gathered. This information will go back to the steering team at their next scheduled meeting.

If you have interest in this collaborative community or want to provide your ideas, please contact Samantha Jacques.

Samantha Jacques, PhD, FACHE
sjacques1@pennstatehealth.psu.edu

Become a Mentor, Volunteer!

If you are interested in serving as a mentor, please complete the ACCE mentor form: http://accenet.org/Membership/Downloads/ACCE%20Mentor%20Form_f.pdf or contact Larry Fennigkoh.

Larry Fennigkoh, PhD, CCE, FACCE
Mentoring Committee Chair
mentoring.chair@accenet.org
AAMI Offers Three New HTM Resources

AAMI has published three new resources for healthcare technology management (HTM) professionals to help enhance their careers and bring greater value to their organizations.

The BMET Study Guide is an indispensable resource for professionals preparing for the certified biomedical equipment technician (CBET) exam. The newly revised version features more than 100 additional questions that address new topics included in the latest version of the test.

The BMET Study Guide has evolved, said author Ethan Hertz, a clinical engineer at Duke University Health System, who has participated in the revision of the guide since the 1980s, and led the team that wrote the last two revisions. Today’s study guide is much more than a quiz with questions and right answers. “Instead,” Hertz said, “it has become a true learning resource to help those preparing for the CBET exam—and a demonstration of AAMI’s continuing commitment both to maintaining a relevant CBET certification process and helping those interested in becoming certified by developing study materials that provide a good basis for reviewing material likely to be on the exam.” Hertz emphasized that a large team of question writers is responsible for the guide’s success. The study guide also has become much more comprehensive over the years. It started with about 150 questions in the early 1980s and now has more than 950 questions—almost six times as many questions as are on the exam.

The recently published Healthcare Technology Management Manual is the successor to the Medical Equipment Management Manual. Although previous editions, which were published under a different title, focused on regulatory compliance, the eighth edition covers “all aspects of running a successful HTM department,” from accreditation and standards to HTM operations, personnel, and services, according to author Al Gresch, vice president of client success at Accruent. “Financial pressures in healthcare today require greater business acumen and good people management concepts to be successful and bring maximum value to your organization,” Gresch said. “In addition to information about regulatory compliance, this edition also provides guidance on department operations and lays the foundation to achieve a higher level of financial and operational performance.”

In the not-too-distant past, acquisition decisions and processes rested with a limited group of participants, and the processes varied widely across healthcare organizations. Today, there is a better understanding that technological systems interact within a larger, diverse ecosystem of people, practices, environments, and organizations, causing a shift in acquisition processes and strategies. AAMI’s new Acquisition Guide for Clinical Technology Equipment lays out seven stages and a set of concentrated activities in the acquisition process. It is intended to help organizations make optimum decisions that will serve them well throughout the equipment’s life cycle by taking a wide variety of stakeholders into consideration.

“The guide was written inclusive of all perspectives to encourage greater levels of collaboration,” said author and AAMI Board member Carol Davis-Smith, president of Carol Davis-Smith & Associates. “As such, the guide will support experienced clinicians along with HTM, facilities, IT, supply chain, and finance professionals to enhance support of their organization’s effort to acquire medical devices and systems more strategically and effectively. Additionally, new professionals will find the guide to be a comprehensive introduction to the acquisition process regardless of their position or organizational size.”

AAMI intends for the guide to serve as a baseline document for a future voluntary national standard on the acquisition of healthcare technology and would like to receive feedback on its content.

For more information about these resources, please visit the online AAMI Store at www.aami.org/store.

New Members Selected for HTM Leadership Groups

AAMI has appointed new members to its Technology Management Council (TMC) and Healthcare Technology Leadership Committee (HTLC). The TMC represents thousands of biomedical equipment technicians (BMETs), clinical engineers, and other professionals who manage and service medical technology around the world. The new members are:

• Wesley Reid, CHTM, CBET, SEC, healthcare technology manager and Army service lead for the Department of Defense BMET Training Program at the Medical Education and Training Campus in San Antonio, TX.

• Jojo Gonzales, CBET, CHTM, lead BMET at Kaiser Permanente San Diego Medical Center and the AAMI and GE Healthcare 2019 BMET of the Year.

• Mark Manning, division chair of healthcare technology management at the Mayo Clinic in Rochester, MN.

• Joseph Deater, CBET, BMET III at Munson Healthcare in Traverse City, MI, and adjunct instructor in biomedical engineering technologies at Northwestern Michigan College.

• Blake Collins, director of clinical engineering at Christiana Care Health System in Newark, DE, and adjunct lecturer at Indiana University-Purdue University Indianapolis (IUPUI) School of Engineering.

• Nader Hammoud, biomedical engineering manager at John Muir Health in Walnut Creek, CA.

• Lucas Marsh, chief of healthcare tech-

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Perspectives from ECRI Institute: Is CE Ready for AI?

Hello Cleveland!

I’m packing up for the AAMI conference this week and am looking forward to seeing what’s hot this year. Based solely on things I’ve triaged for Health Devices members and lectures I’m joining, I’ll probably be seeing a lot of:

Cleaning and disinfecting equipment, hopefully without breaking it in the process. I know, cleaning damage pops its head up about every other column I write. ECRI has included it in our Top Ten Hazards list for the last two years, and we continue to process problem reports and device alerts related to improper or inadequate cleaning and disinfection. I’m hoping that I can hear from AAMI attendees about how they’ve tackled this problem, and see if any suppliers have good suggestions for simplifying and consolidating the methods and materials needed for the job.

AI: yeah we can use it for that. Is it just me, or is AI now being proposed for pretty much everything? AI for searching through CMMS PM records to spot problem devices. AI for searching through images to lead a radiologist to anatomical features or problems. AI for searching through EHR data to identify patients at risk for deterioration, or sepsis, or a public health threat. If only there were a team within the hospital who specializes in thinking through the risk/benefit of new applications and new technologies, ensuring their safe and thoughtful implementation and use… That’s right, biomed and clinical engineers, it’s probably time to make sure you’re on the right committees and task forces as your facilities start considering and adopting AI and machine learning applications.

More Data, More Problems. Along with the rise of AI and machine learning, a much-less-sexy issue is popping up: how can you be sure the data that feeds all these systems and algorithms is there and ready to go? Is your medical device inventory up to date, does it use standardized terminology (I’m looking at you, LifePack/Life Pack/Life-Pack), and does it have the model, software version, networking, and security information you need to make use of all these new systems that want to scan your inventory for recalls, alerts, problems, or cybersecurity threats? I’m looking forward to hearing what’s working for AAMI attendees and what still needs to be figured out.

I hope I’ll see you in Cleveland. As always, keep in touch, especially when things are failing unexpectedly,

Erin Sparnon
ESParnon@ECRI.org

IFMBE/CED: A New Website for Global CE

The International Federation of Medical and Biological Engineering Clinical Engineering Division (CED) is the global organization for clinical engineering and allied professionals who are dedicated to the advancement of safe and effective medical technology design, deployment, and management programs. Their new website provides exciting information and resources about CED activities and projects. The site features include:

Home Page:
- What does the World Health Organization say about Clinical Engineers?;
- Information about the Global Clinical Engineering Journal, [https://globalce.org/index.php/GlobalCE/about](https://globalce.org/index.php/GlobalCE/about);
- An interactive forum about CE-HTM around the world, [https://ced.ifmbe.org/forum/](https://ced.ifmbe.org/forum/).

What is CE Page: A short video explaining Clinical Engineering, and an intro in 11 languages.

About Us Page: Listing CED Board/Advisors (12), and our collaborators (93 from 40+ countries), our vision, and mission statements, and links to CE Success Stories (400 from 125 countries from 2007-2018).

Projects Page: Listing 12 projects including project goals, team members, and activities, and information on how to join us!

Resources Page: Links to definitions, global training and education opportunities and scientific papers.

Events Page: CED has participated in, and will continue to participate in many programs. Examples include:
- Arab Hospital Federation in Kuwait in April;
- CMEF China in Shanghai in May, where Yadin David, Li Bin, and Zheng Kun trained young CEs in how to write Journal articles;
- AIIC in Italy in May; 2000 CE attendees and 80 exhibitors. Upcoming conference in Rome in October;
- CMBEBIH in Bosnia & Herzegovina (B&H) in May, attended by that country’s President;

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IFMBE CED continued

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- Hospitalar in Brazil in May; supported by our national society partner in Brazil, ABECLIN;
- JACE in Japan in May: 2 days in Iwate Prefecture and 2,900 participants;
- CMBES in Ottawa in May;
- WHO’s World Health Assembly (WHA) in Geneva in May; B&H CED Board member Almir Badnjevic selected by his Minister of Health (MOH) to represent B&H at the WHA;
- Africa Health Conference: CED partner, IFMBE Working Group on Africa Activities, has informal membership of 17 Africa countries;
- AAMI Global Track in Cleveland in June; CED is partnering with AAMI and ACCE; 20 CED global participant speakers from 15 countries.


Please visit our new website.

Tom Judd
IFMBE CED Board Chair
judd.tom@gmail.com
International Committee Report: New Proposal for Collaboration with International CEs

Late last year, the International Committee (IC) proposed that ACCE’s Board change its strategy of engagement with clinical engineering (CE) professionals outside of USA and Canada. Instead of focusing on Advanced CE Workshops (ACEWs), ACCE would seek direct collaborations with CE associations in foreign countries to assist them according to their individual, unique needs, desires, and local reality.

The rationale behind this proposal is that the ACEWs have not been requested for over 5 years. This is apparently due to a combination of leadership change at PAHO and WHO, as well as the increasing maturity of CE in developing and low-resource countries. After the over 50 ACEWs conducted by ACCE since 1990, many countries have managed to create a critical mass of CE professionals to the point of being able to train their own people and even to establish their national associations. Therefore, it is clear that no longer promoting ACEWs will allow ACCE to help advance CE worldwide.

After internal discussion among IC members and listening to former IC members and some foreign CE leaders, IC proposed to establish mutual collaboration and assistance agreement directly with individual foreign CE associations with the following objectives consistent with ACCE’s mission:

- Enhance ACCE’s image worldwide as a leading CE organization, not only in terms of experience and history but also in terms of innovative collaborative initiatives;
- Assist local professionals in creating or growing similar national CE organizations in their countries, so they can obtain and secure better recognition from their health authorities, administrators, and clinical colleagues;
- Substantially increase ACCE membership by including members of foreign associations, thus enhancing fund raising opportunities with companies that offer products and services worldwide. While a precise estimate is not available, the IC estimates that it is reasonable to expect an increase in member count from ~1,000 to over 25,000, considering some large national associations from Japan, Italy, and China.

The proposed agreements would offer the following mutual benefits and rights at no cost to the members of both associations:

- Except for voting, the members of both associations will have the same rights and benefits (e.g., discounts to conferences and publications, use of the other association’s name for fund raising, complimentary promotion of each other’s events on websites and newsletters, etc.);
- Both associations can include members of the other association in its documents and marketing campaigns;
- Each association can request and provide assistance for organizing events, program evaluations, advocacy with government agencies, consulting projects, education, training, etc.;
- Except for the complimentary services and support specified in the agreement as complimentary, each associ-
Each association shall retain rights to its intellectual property (IP), such as white papers, guidelines, newsletters, presentation material, etc.

The proposed strategy has some risks that have been analyzed and presented to the Board as summarized below:

Currently, ACCE has some “international members” (not formally defined in the By-laws but who have been enjoying lower membership dues for being residents of countries classified by the World Bank as having lower income than industrialized nations). These members could give up their membership and gain access to ACCE benefits through their own national association. The loss of these members is unlikely to reduce ACCE membership income significantly for two reasons:

The number of these “international members” is small and their dues are low;

Many of these “international members” probably want to keep their ACCE membership due to the prestige of being a member of a prominent international organization that has high admission standards.

The additional membership will increase administrative workload. However, this could be minimized by not adding the new foreign members (proposed to be called “collaborating members”) to the membership roster individually.

Some current Canadian members may want to leave ACCE and join CMBES and seek benefits through a collaboration agreement. This risk is not likely to be high because most of the current Canadian members have their dues reimbursed or paid for by their respective employers, so they are not likely to be concerned about the savings. Furthermore, the discounts and other benefits provided by ACCE membership more than compensate the membership dues.

After obtaining the Board approval of this new strategy, IC has been diligently making contacts with foreign associations worldwide. On May 15, an agreement with the Chinese Society of Clinical Engineering (CSCE) of the Chinese Medical Association was signed during the Fourth China International Clinical Engineering Forum (ICEF) in Shanghai, China. ACCE was represented by Binseng Wang, IC Chair (Arif Subhan was unable to attend), while CSCE was represented by its Chair, Li Bin (Medical Equipment Director, Shanghai Health Bureau), Director of Foreign Affair Division, Zheng Kun (Director, Support Services, Zhejiang University Children’s Hospital), Immediately Past Chair, Gao Guanxin, Past Chair, Zhang Qiang, and Chair Elect, Qian Yin. Also present were two other ACCE members, Yadin David and Jean Ngoie, and former AAMI Board Chair, Bob Stiefel. [Note:: the Chinese tradition is to put the family name before the given name so to avoid confusion I am using caps for their family names.]

In June, agreements will be signed with the CE associations of Argentina, Japan, Lebanon, Peru, and Taiwan. Negotiations with several other countries are also in progress.

IC is seeking comments and suggestions from all ACCE members regarding this new approach and, above all, contact information for foreign organizations that ACCE should be communicating for mutual collaboration and assistance.

Binseng Wang, ScD, CCE, fAIMBE, fACCE
International Committee chair
International.chair@accenet.org

CCE Certification at the CMBEC42 Conference

The Canadian Medical and Biological Engineering Conference (CMBEC) was held from May 21 to 24, 2019 in Ottawa, Ontario. CMBEC is the annual conference for the Canadian Medical and Biological Engineering Society that has been held continuously since 1966.

This year as usual the Canadian Board of Examiners for Clinical Engineering conducted the Canadian oral CCE examination at the CMBEC42 conference. Typically one to three candidates take both the written and oral CCE examinations annually in Canada. This year one candidate completed the oral exam at the conference. If CCE oral candidates cannot attend the annual CMBEC conference then other arrangements for the oral examination have and can be made to accommodate these individuals. Nearly ten percent of the active CCEs have the Canadian CCE certification designation at present.

The CMBEC42 conference includes several sessions chaired by ACCE members including “Clinical Informatics & Patient Safety” – Mario Ramirez, “Project Management in Clinical Engineering” – Timothy Zakutney – “Clinical Engineering Topics” – Dave Gretzinger and “Improving the Effectiveness of Medical Donations” – Dr. William Gentles.

There were four Certified Clinical Engineers on this year’s conference organizing committee including Kim Greenwood, Marie Ange Janvier, Andrew Ibey, and Parisa Bahrami. Next year’s CMBES Conference will be held in Montreal in conjunction with the International IEEE Engineering in Medicine and Biology Society Conference from July 21 to 25, 2020.

Kim Greenwood
ACCE Board Member at Large
kgreenwood@cheo.on.ca

AAMI Foundation and ACCE’s 2019 Robert L. Morris Humanitarian Award winner Dr. William Gentles (right) and Kim Greenwood ACCE Board Director and CMBEC42 Conference Chair at CMBEC42 I Ottawa, Canada.

AAMI continued

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nology management service at the Department of Veterans Affairs (VA) Charleston (SC) Medical Center (young professional).

• Colleen Haugen-Ortiz, CBET, site lead and client service technician at GE Healthcare for Sharp Memorial Hospital in San Diego.

HTLC members play a vital role in advancing the professional interests of clinical engineers, promoting the importance of the field, and serving as an important resource to AAMI staff. The new members are:

• Larry Hertzler, CCE, vice president of technical operations at Healthcare Technologies, a TRIMEDX company.

• Samantha Jacques, PhD, FACHE, director of clinical engineering at Penn State Health.

• Shelly Crisler, CCE, biomedical engineer for the VA Center for Engineering & Occupational Safety and Health in St. Louis.

• Angela Ferguson-Bennett, director of clinical engineering at TRIMEDX for Ascension Borgess Hospital in Kalamazoo, MI.

Cory Blacketer, HCIISSP, CISSP, CAHIMS, medical device security consultant at CynergisTek.

AAMI Staff
ACCE Challenge Award Recipient Promotes ACCE at Arab Hospitals Federation Forum

ACCE member Riad FARAH, CHTM, was awarded the 2018 ACCE Challenge Award for his extraordinary work in promoting Clinical Engineering (CE) in Lebanon, the Middle East, and Africa. He continued his CE promotional work with a presentation at the Technology Management and Assessment panel at the Arab Hospital Federation 21st Forum, held in Kuwait in April 2019.

The Arab Hospitals Federation, “AHDAF Kuwait 2019”, was under the High Patronage of H.E. Sheikh Dr. Basel Al-Sabah - Minister of Health in Kuwait, with the support and presence of several Arab Ministries of Health.

The Arab Hospitals Federation (http://ahfonline.net/about-ahf/) is a nonprofit organization representing more than 500 public and private hospitals in 22 Arab countries.

More than 256 delegates from 12 countries attended this forum, which offered an ideal platform for Health Ministers, key decision makers, CEOs, and top-level executives of Arab hospitals and healthcare organizations to discuss key drivers of healthcare policy, latest management tools, and technology management and assessment.

The scientific conference included interactive sessions, plenary lectures, panel discussions delivered by top notch speakers and experts in the various fields in addition to a specialized medical exhibition.

Riad introduced the importance and savings that can be achieved by proper health technology management and assessment. The role of HTM, clinical engineers, and biomedical engineers was briefed to the audience.

The presentation included a discussion of the Clinical Engineering Certification program sponsored by the American College of Clinical Engineering (ACCE). Certified clinical engineers solve the need by hospital executives to assess the skills readiness of biomedical engineers working in the Arab area. Clinical engineering certification establishes a standard qualification reference internationally.

Further promoting clinical engineering in the Arab world, Riad participated in the Middle East and North Africa Health Policy Forum in Sep 2018 in Dubai. His presentation was on best practices in achieving Health Technology Assessment. The forum calls for Arab governments to scale up efforts to strengthen health systems in order to move towards achieving universal health coverage (UHC). Achieving UHC depends on fair priority-setting processes that ensure countries allocate scarce resources efficiently. Best practices in HTA supports informed decision-making on national health technology investments. HTA as a policy tool has been widely recognized in high income countries, yet in the Middle East and North African (MENA) region, the link between evidence and policy is still lacking. The audience was primarily governmental agencies and policy makers in the Arab world. It was a platform to showcase the importance of HTM, HTA, and Clinical Engineering, as well as ACCE and its certification program. See http://menahpf.org/second-regional-health-technology-assessment HTA-policy-forum-step-forward-moving/

Riad also presented cybersecurity tools to Arab Biomedical Engineers during the Bioclinic (http://bioclinic.net/en/) conference in Nov 2018 in Cairo Egypt. That audience included biomedical engineers, professors, students, and engineers working at hospitals, ministries of health, manufacturers, and suppliers.

Riad Farah, CHTM
Saint George Hospital/University Medical Center
rffarah@stgeorgehospital.org

Riad Farah presents ACCE’s Clinical Engineering Certification program (CCE) at the Arab Healthcare Development Annual Forum, Kuwait Edition, the largest healthcare conference in the Arab world.
HTM/Clinical Engineering Week Celebrated
Beth Israel Deaconess Medical Center

Beth Israel Deaconess Medical Center (BIDMC) is located in Boston, MA and is part of Beth Israel Lahey Health, a 13 hospital system. Our team at BIDMC consists of 25 HTM professionals including a Director, CE Managers, Clinical Engineers, a Project Resource Specialist, a Technology Coordinator, and Biomedical Equipment Technicians. We are primarily located on the East and West BIDMC campuses, but also oversee other offsite clinics and hospitals.

As our department grows, we celebrated HTM week to increase awareness of our role in maintaining and managing the healthcare technology among the clinical end users.

During the week, we displayed the inner electronics of multiple portable medical devices, showing hospital staff members how these devices function. Clinicians were curious to learn more about the engineering behind the devices they use day to day. We also displayed multiple posters throughout BIDMC to highlight the work we do as HTM professionals. We culminated the celebration by enjoying a CE leadership sponsored luncheon and souvenirs, showing appreciation of the team’s work.

This year’s celebration, considering it was our first, was a major success in terms of gaining visibility and appreciation from our leadership and clinicians. We are looking forward to next year’s HTM week.

HTM/Clinical Engineering Week
Beth Israel Deaconess Medical Center

Dallas Veterans Affairs Medical Center

HTM Week 2019 was the most anticipated event of the quarter at the Dallas Veterans Affairs Medical Center. The Biomedical Engineering shop there looked forward to a week of team-building activities and exercises, as well as participating in the national Department of Veterans Affairs events. Besides more lighthearted challenges such as completing a complex table puzzle during lunch and a paper airplane flying competition, the team had an off-site meal to discuss challenges in the department and spent time appreciating everyone’s efforts in the past year towards improving the HTM section.

The Department of Veterans Affairs, Veterans Health Administration is one of the largest networks of hospitals in the world, and employees over 1,300 technicians and engineers to manage over $7 billion of medical equipment and technology. The men and women of the VHA Healthcare Technology Management enterprise support patient safety, medical equipment availability, cost containment, cyber security, and technology interoperability, among other varied duties. The various biomedical engineering departments kept in touch virtually through a different national competition each day: including name medical devices from only pictures, nominate another staff member to recognize his or her efforts, answer trivia questions about different departments, and more (points were assigned per regional area). Staff members enjoyed the camaraderie fostered through the friendly competition (winners will be announced in the coming weeks). Hopefully, national HTM week was a treat to all who participated!

Clarice Holden
Dallas Veterans Affairs Medical Center
Clarice.Holden@va.gov

HTM week was a treat to all who participated!
The Shanghai Medical Equipment Fair

I recently had the opportunity to attend the CMEF meeting in Shanghai China. The China Medical Equipment Fair is offered twice a year and I have been attending off and on for more than 20 years. China is an amazing country, the people are wonderful, and to an American who thinks something that is 250 years old is history, China is a land full of history going back thousands of years. Plus the exhibits halls are good.

The CMEF meeting represents everything you need to turn an idea of a hospital, tele-medicine practice or whatever healthcare facility you imagine into reality. Everything from furnaces, generators, telecommunication equipment, any type of monitoring equipment and all the parts in between are present in multiple iterations. The exhibit halls are set up with multiple rows, products grouped by type (to some degree) and we averaged 6+ miles a day for just two halls. (Eight halls in total, but many halls had multiple rooms, so it goes on forever.) We spent three days and only got to about half of the halls.

Over the years I have watched the technology presented at the show progress from copies of other products to genuine innovation. There are many devices that are “me too” and represent iterations of other company products and the prices are stunning in how little they sell for. As a person who works in the medical device market, I wonder how they can support these products at these prices. In the US it would cost more to ship the items than their sales price.

On the other hand, there is real innovation to be found. Several of the monitoring companies had truly neat products with clever ways to present data and to support decision making. Smarter, easier to use, body worn sensors and many wrist worn units that offer a variety of measurements are everywhere. The influence of our Apple watches, Garmin sensors and the like are influencing medical products quite profoundly.

While in Shanghai I watched a TED talk in my hotel room. The focus was on the innovation and rapid turnover of products in China and how industries were expanding their technologies and creating new solutions. This seemed to bear out on the show floor with the amazing number of new products. Their appetite for new products seems endless.

China is putting huge resources into their healthcare market. It is a huge country with vast distances to travel and varying amounts of people to provide for with varying available resources. With a growing middle class and all their associated disease states, a country of smokers, and an aging population, the challenge to deliver care is enormous. Some of the solutions seen at CMEF may help a great deal. It was quite interesting talking to vendors and to see how they were approaching problems that are common to both China and the US.

Look for more of these products and similar ones from US manufacturers and health care providers in both countries as they try to bring technology to bear to help better manage care.

Paul Coss
President, The HTF
president@thehtf.org

ACCE at MD Expo Houston

ACCE had a presence at the recent Spring 2019 MD Expo in Houston, TX. ACCE had a booth set up in the education foyer of the Expo, and the booth received many visitors in the mornings and in-between education sessions with several people interested in certification.

Additionally, the ACCE Body of Knowledge (BOK) Committee chair, Katherine Navarro, and three committee members: Bhaskar Iduri, Rehman Syed, and Sarah Brockway, presented the education session titled “2018 ACCE Body of Knowledge (BOK) Survey Results,” which received great feedback from the attendees.

The presentation covered the survey process, the results and data analysis, and some key take-aways on where the Clinical Engineering field is headed based on the results. This presentation was the first to use live polling from the MD Expo app, and the presenters received excellent audience participation! It was interesting to compare the live results to some of the survey questions to the official data received from the BOK survey.

Overall ACCE’s presence at MD Expo with the presentation and booth was a success, and it will hopefully bring more people to ACCE and more awareness to the benefits of the BOK survey.

Katherine Navarro
ACCE BOK Committee Chair
BOKchair@accenet.org

Katherine Navarro, Bhaskar Iduri, Sarah Brockway and Rehman Syed at MD Expo Houston
Welcome New Members

We welcome our newest members, approved by Membership Committee and supported by the Board of Directors:

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>Job Title</th>
<th>Organization</th>
<th>State/Country</th>
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</thead>
<tbody>
<tr>
<td>Salim Kai</td>
<td>Institutional/Individual</td>
<td>Senior Director</td>
<td>The Children’s Hospital of Philadelphia</td>
<td>PA/USA</td>
</tr>
<tr>
<td>Jayme Batcher</td>
<td>Institutional/Associate</td>
<td>Clinical Engineer</td>
<td>The Children’s Hospital of Philadelphia</td>
<td>PA/USA</td>
</tr>
<tr>
<td>David J. McLaughlin</td>
<td>Institutional/Associate</td>
<td>Clinical Engineer</td>
<td>The Children’s Hospital of Philadelphia</td>
<td>PA/USA</td>
</tr>
<tr>
<td>Jeff Mendoza</td>
<td>Institutional/Associate</td>
<td>System Engineer II</td>
<td>Stanford Children’s Health</td>
<td>CA/USA</td>
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<tr>
<td>Laquel R. Brown</td>
<td>Institutional/Associate</td>
<td>TCF Biomedical Engineer</td>
<td>West Palm Beach VA Medical Center</td>
<td>FL/USA</td>
</tr>
<tr>
<td>Peter Galley</td>
<td>Corporate/Associate</td>
<td>System Director, HTM</td>
<td>ABM Healthcare Support Services</td>
<td>FL/USA</td>
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<tr>
<td>James Malvesti</td>
<td>Corporate/Associate</td>
<td>Supervisor</td>
<td>ABM Healthcare Support Services</td>
<td>MI/USA</td>
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<tr>
<td>Ankita Ranjee</td>
<td>Corporate/Associate</td>
<td>Clinical Engineer</td>
<td>ABM Healthcare Support Services</td>
<td>MI/USA</td>
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<tr>
<td>Kumar Ghosh</td>
<td>Corporate/Associate</td>
<td>Head of Marketing</td>
<td>Ordr</td>
<td>CA/USA</td>
</tr>
<tr>
<td>Brad Day</td>
<td>Corporate/Associate</td>
<td>Director of Business Development</td>
<td>Medical Equipment Dynamics Inc.</td>
<td>MA/USA</td>
</tr>
<tr>
<td>Michael Keefe</td>
<td>Candidate</td>
<td>Clinical Engineer</td>
<td>Houston Methodist Hospital</td>
<td>TX/USA</td>
</tr>
</tbody>
</table>

Welcome to our newest Institutional Member:

CHOP - The Children’s Hospital of Philadelphia

ACCE 2019 Membership Renewal

Thank you for being an ACCE member! ACCE.
Membership Renewal for January through December 2019 is due now.

To renew your 2019 membership online with PayPal, please [click here](https://accenet.org/Members/Pages/default.aspx?from=login) or go to https://accenet.org/Members/Pages/default.aspx?from=login.

To renew by postal mail, please remit your renewal check to:

ACCE
5200 Butler Pike,
Plymouth Meeting, PA 19462

If you need an e-invoice, please contact ACCE Secretariat at [secretariat@accenet.org](mailto:secretariat@accenet.org)

[Membership benefits](#)
Are you **completely confident** that all of your medical devices are **totally secure**? Or does every day bring **new discoveries** and **unwelcomed surprises**?

**Sometimes, what you don’t know can hurt you.**

Getting a handle on the hyper-connected healthcare system can be daunting. Every day, vast quantities of new devices and systems need network connectivity to deliver an ever-advancing quality of healthcare. Traditional IT and security resources and practices, however, simply can’t scale to meet the demand.

It’s ok. We have you covered. Ordr gives you the power to take control.

Learn how advanced machine learning and actionable artificial intelligence – designed specifically for this new hyper-connected healthcare system – can automatically identify, classify, regulate and secure every device connected to your network today…and far into the future.

Visit https://www.ordr.net for more information or to schedule a 30 minute demo.
Journal of Clinical Engineering Subscriptions for ACCE Members

The Journal of Clinical Engineering is a compilation of articles, papers, and extensive manuscripts relevant to clinical/biomedical engineering or biomedical technology. Subject matter directly relates to the engineering or technology involved in patient care and treatment or technology in the broad field of health care delivery.

ACCE members receive a discounted subscription to the Journal of Clinical Engineering for only $99! (Originally $313). You must login to the ACCE website to view the code. Then visit LWW.com to enter code.

ACCE Calendar

June 7-10, 2019
AAMI Exchange 2019
Cleveland OH
Details

June 8, 2019, 7:00AM
Clinical Engineering Symposium by ACCE
AAMI Exchange 2019
Cleveland Huntington Convention Center
Details

June 8, 2019, 7:30PM
ACCE Members Meeting and Awards Reception
Hilton Cleveland Downtown
Details

June 13, 2019
Educational webinar
Best Practices for Capital Equipment Planning
Details

June 14, 2019
Deadline to send in renewal for CCE for those whose CCE expires in 2019
Details

June 22, 2019
Deadline to submit application for 2019 CCE Examination outside the US/Canada
Details

July 19, 2019
Deadline to submit application for 2019 CCE Examination in the US or Canada
Details

August 14—October 16, 2019
CCE Prep webinar series
Details

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