

ACCE News

Newsletter of the American College of Clinical Engineering

July/August 2019

Volume 29 Issue 4



Special Report- ACCE at AAMI Exchange 2019

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President's Message



Greetings from Washington DC!

ACCE had a very strong presence at the AAMI Exchange in June 2019. The details are available in this newsletter. I would like to thank our sponsors and all those who assisted in making ACCE programs a success.

CCE Task Force

ACCE has established the CCE Task Force to promote clinical engineering certification among clinical engineers. Kim Greenwood and I are the Co-chairs of the Task Force. We are looking for additional members. If you are interested, please reach out to me, Kim or Suly.

ACCE committees had been busy over the summer!

The Education Committee is gearing up for the 2019-2020 webinar series, more details in this issue. The BOK Committee led the CCE Study Guide task force and released the CCE Study Guide V8.0.

New ACCE Board

Thanks to our members for participation in the elections. The new ACCE Board will be taking over governance of ACCE in mid-August. I would like to congratulate Ilir Kullolli, President; Priyanka Upendra, President-elect, Pratyusha Pedaprolu, Vice President and Samantha Herold, Treasurer on their election.

On August 16, 2019, I will be stepping down as President after completing my two terms. The last two years have been a great honor, privilege and a wonderful learning experience for me personally and professionally. Many thanks to the Board, Committees and Task Forces and Suly for supporting me in my role.

I want to thank the ACCE members and my mentors who entrusted me with this once in a lifetime opportunity for leading an organization of devoted members professionals around the globe, who are dedicated to "promoting the safe and effective application of science and technology in patient care."

Arif Subhan
President, ACCE
president@accenet.org

Tales of the Biomed Book

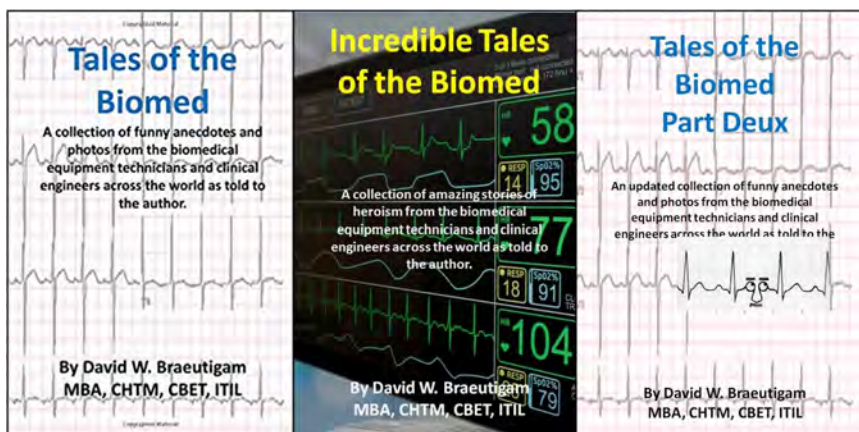
We all have stories we have collected over our career as a BMET or as a CE. Some of those stories are funny and some are just truly amazing. We meet at a conference over a coffee (or something a little stronger) and share those stories among us. I decided a couple of years ago that we needed to collect those stories and share them with everyone.

I reached out to many of my friends in the HTM community to gather their funny stories. I combined those with the stories I already had and decided to publish a book titled 'Tales of the Biomed.' I self published the book on Amazon in December 2017. As I was collecting the stories I ran across a post on LinkedIn about a funny note attached to a piece of medical equipment. The note was very descriptive – 'Ticks like a Bomb.' I soon realized that we have all seen these funny notes attached to a piece of medical equipment that was malfunctioning. I started on a quest to get more of those 'funny notes' from my friends and those posted on other sites. I was able to get around 25 'funny notes' that the person agreed to share and put them in my book.

Self publishing has been an interesting journey. The writing of the book is the easy part. You then have to design the cover, edit the book, layout the book in chapter form, create an index and do all the promoting of the book. I've had help along the way. At the Fall 2018 MDEXpo Conference in Seattle, TechNation did a short interview with me about my book. AAMI also did a short blurb in the AAMI News. Just recently TechNation did a two page layout of my books, my work as an HTM Consultant and some of my future ideas for books. BMES approached me at the MDEXpo in Houston to 'give' away a story in my book as a way of collecting emails of prospective clients. They recently launched this on their website. Another marketing idea I had recently was to give away name badge ribbons at conferences. I will attend NCBA's conference in Minnesota in September and that will be the first conference I can hand the badges out to fans of the book. I also plan to hand them out at MDEXpo in Baltimore and the next AAMI conference.

I knew I needed a simple way for HTM professionals to get their funny stories and photos to me so I created a website – <https://TalesOfTheBiomed.com>. The website has links to purchase the book, examples of funny stories and pictures plus a section for future books. 'Tales of the Biomed' has been a big success so I am working on a new version titled 'Tales of the Biomed Part Deux.' Not wanting to forget about the Amazing things we do in HTM I have started working on another book titled 'Amazing Tales of the Biomed.' This book will highlight the truly amazing things we do in the HTM field every day. A friend reached out to me recently and asked about IT stories. I thought that was a great idea so that will be another book titled 'Tales of the IT Guy.' It will be filled with funny stories and work orders around the IT field. I know we all have several of those stories to share!

All my writing has not just been about the HTM field. I have done my family history for 30 years and had some truly amazing stories to share.



lives of the men of the 408th Bomb Squadron to publish several more books.

If you are interested in publishing a book I will be happy to walk you through the process.

David Braeutigam
dwbraeutigam@tx.rr.com

ACCE News

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Managing Editor

Jim Keller
jkellerjr@verizon.net
(610)825-6000

Co-Editors

Ted Cohen
tedcohen@pacbell.net

Ismael Cordero

ismaelcordero@me.com

Circulation & Address Corrections

Suly Chi, ACCE Secretariat
Secretariat@accenet.org

Advertising

Dave Smith
advertising@accenet.org

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One book I recently published 'Royal Flush and Black Sunday – April 16, 1944' was about my 2nd cousin, SSG Elgin J. Luckenbach, who went missing in action in New Guinea during WWII. Elgin's body along with those of his crew were discovered in the jungle of New Guinea in 2002. After DNA analysis the crew was buried in Arlington National Cemetery in April 2006. This was just a couple of weeks before the annual AAMI Conference in Washington DC. During the research on my cousin, I ran across a diary by a 1st Lieutenant who was a bombardier in the same unit as my cousin. I received permission from the family and published a book using the diary, letters, photographs and bombing mission reports I found during my research. I have collected enough information on the

AAMI Update

AAMI Launches Fellow Program with 14 Honorees

AAMI has launched a Fellow Program to celebrate leaders in the health technology and sterilization fields who have also distinguished themselves through their contributions to the association.

The inaugural class, announced in June at the AAMI Exchange in Cleveland, consists of 14 AAMI members who comes from various backgrounds.

“We are extremely proud of this inaugural class of fellows. These individuals inspire us to contribute more to our professional communities,” said AAMI President and CEO Robert Jensen.

AAMI recognizes fellows for the depth and breadth of their accomplishments in seven core areas: professional experience, education, technical contributions, presentations and publications, professional participation, certification, and awards and honors.



The 14 fellows are:

Matthew Baretich, PE, PhD, president of Baretich Engineering in Fort Collins, CO.

David Braeutigam, MBA, CHTM, CBET, ITIL, president of Braeutigam Enterprises LLC in Arlington, TX.

Tobey Clark, BSBME, MSEE, CCE, CHTM, FACCE, SASHE, engineering supervisor, Instrumentation and Technical Services, University of Vermont in Burlington, VT.

Carol Davis-Smith, CCE, president of Carol Davis-Smith & Associates, LLC, in Phoenix, AZ.

David Dickey, FACHE, CHC, CCE, CHTM, vice president of clinical engineering at McLaren Health Care headquartered in Grand Blanc, MI.

Stephen Grimes, FACCE, FHIMSS, FAIMBE, principal consultant at Strategic Healthcare Technology Associates in Swampscott, MA.

Heidi Horn, vice president of global enablement-healthcare at Nuvolo.

Paul Kelley, CBET, director of biomedical engineering, the Green Initiative, and asset redeployment at Washington Hospital in Fremont, CA.

George Mills, FASHE, CHFM, CEM, CHOP-DNV, director of healthcare technical operations at JLL.

Gerry O'Dell, CISS, president of Gerry O'Dell Consulting in Wesley Chapel, FL.

Michael H. Scholla, PhD, global director of regulatory and standards and Medical Packaging Fellow at Dupont Safety & Construction in Wilmington, DE.

Charles Sidebottom, P. Eng., managing partner at PPO Standards in Minneapolis.

James Wear, CCE, CPC, CHSP, FASHE, FAIMBE, FACCE, FAIC, consultant, educator and healthcare technology management leader (retired) based in North Little Rock, AR.

Axel Wirth, CPHIMS, CISSP, HCISPP, distinguished technical architect at Symantec Corporation in Cambridge, MA, and adjunct professor in the biomedical engineering program at the University of Connecticut.

For more information at the AAMI Fellow Program, please visit www.aami.org/fellow

Calling All 'Bright Ideas'

AAMI is now accepting nominations for its “Bright Ideas” program, which recognizes HTM department that are implementing creative solutions to today’s challenges.

AAMI’s Technology Management Council (TMC) is seeking specific examples of HTM initiatives that have enhanced patient safety, reduced costs, and/or improved hospital processes. The TMC will choose six departments to be profiled in a feature article published in *BI&T* throughout 2020.

For more information, please contact Danielle McGeary, AAMI’s vice president of HTM, at dmcgeary@aami.org.

Rising Stars

AAMI shined a light on seven standouts working in the health technology and sterilization fields with a cover story in a recent edition of *BI&T*.

“HTM is a field that is growing and evolving, which resonates with me and my pursuit to always keep learning,” said Jaspreet Mankoo, one of the individuals profiled. Mankoo, MS, CCE, is supervisor of clinical engineering with the VA Boston Healthcare System.

Mankoo shared this advice for how to advance in an HTM career.

- Find a mentor.
- Do the little things very well to earn bigger responsibilities.
- Develop communication and time-management skills.
- Get involved with AAMI and other professional groups.
- Set professional and personal goals.
- Be open to change and never stop learning.
- Don’t be afraid to take on the challenging projects—and learn from your mistakes.

(Continued on page 6)

Thank You to Our Member Volunteers at AAMI Exchange 2019



Seated (l-r): Nicole Quintal, Suly Chi, Danielle Cowgill. row 2: Frank Painter, Kim Greenwood, Eric Aring

Thank you for taking time from your busy conference scheduling to man the booth, set-up or dismantle/package and ship booth material or take pictures.

Traffic at the ACCE booth was heavy during the two exhibit days, with members from the US and around the world.

Our great appreciation to the following wonderful volunteers as we couldn't have done it without their volunteering time: Eric Aring, Kamecia Bruce, Laquel Brown, Dave Braeutigam, Danielle Cowgill, Hannah Frank, Kim Greenwood, Shasha Graves, Sam Jacques, Avery Newsom, Jim Panella, Frank Painter, Nicole Quintal, Alicia Smith-Freshwater, Arif Subhan, Arleen Thukral, Priya Upendra and Binseng Wang.



l-r: Jim Panella, Yadin David, Priya Upendra



l-r: Ilir Kullolli, Shasha Grave, Avery Newsom, Jennifer Jackson

Healthcare Technology Foundation News



Improve healthcare delivery outcomes by promoting the development, application and support of safe and effective healthcare technologies.

Board Member Recognition

JoAnne Phillips received the AAMI Foundation & Institute for Technology in Health Care's Clinical Solution Award for her work with alarm fatigue and the role nurses play. <https://www.aami.org/awards/ith.html>

Board Members Active at AAMI

HTF board members were active at the recent AAMI Exchange held in Cleveland, Ohio.

Yadin David participated in the Global Exchange Track with a session on Global OEM & HTM/CE Leader Partnerships.

Tobey Clark also participated in the Global Exchange Track with a session on How You Can Contribute to HTM Around the World.

Erin Sparnon and Tobey Clark chaired a session on Balancing Requirements for Infection Control and Reduction of Equipment Damage.

Two board members were recognized as AAMI Fellows: Jim Wear and Tobey Clark.

Congratulations gentlemen!

HTF Future Projects

Have a great idea to share? Please let us know if you have any suggestions on projects for HTF that will meet our mission:

Be sure to visit the HTF website, www.thehtf.org to see our programs and resources. While you are there, feel free to hit the **DONATE NOW** button. We will accept them any time and they are always tax deductible!

Jennifer C. Ott, MSBME, CCE, FACCE
Secretary, HTF
secretary@thehtf.org

Educational Forum: FMDIC FDA 101

The FDA Medical Device Industry Coalition (FMDIC) is offering a unique educational event opportunity intended for individuals with little or no experience with FDA requirements for medical devices. Members of ACCE should consider attending especially if entrepreneurship, start-up, new hire or consideration of career in industry and manufacturing is on their radar. ACCE has maintained representation on the FMDIC and continuously promotes the value of integrating Clinical engineers and HTM methodology into the management of the technology life cycle.

Date: Monday, August 26, 2019

Time: 8am – 5pm

Location: 2101 St. Elmo, Bldg. 1, Ste. 100
Austin, Texas 78744

Price: \$150.00 (refreshments and box lunch included).

To register, [click here](#)

[Event website](#)

Steve Juett & Yadin David
FMDIC Liaison
fmdic-liaison@accenet.org

CCE Promotion Task-Force

A task force was recently formed on the direction of the ACCE Board of Directors to promote clinical engineering certification in an effort to boost CCE certification rates. This new committee will be co-chaired by outgoing ACCE President Arif Subhan and Board Member at Large Kim Greenwood. Members of this task force include Katherine Navarro, Jason Howard, Bhaskar Iduri, Danielle Everhardt, Stephanie Liddle, Parisa Bahrami, Andrew Ibey and Rachel Zhang.

To start off, the committee will review and update the current CCE brochure and plan and develop new strategies to promote the growth of clinical engineering certification. The task force will explore new communication methods such as the ACCE blog where a good cross section of CCEs have recently have been giving their insight into why it is important to obtain certification as a clinical engineer and how it helps the healthcare industry as a whole. A lot of the reluctance on the part of prospective candidates to take the exam is related to not having a good grasp of what the expectations are for the oral and written exams, how to study for both exams, whether or not the exam still really relevant and why obtaining the certification is important. A number of these concerns are dispelled in the blog responses by the experienced CCE authors.

(Continued on page 6)



2019 Members Meeting & Awards Reception
Accomplishments (2018-19)
 2019 awards winners
 2019 student awards
 Fellow & CE-Hall of Fame



Thank you to our Sponsors



AAMI Update

(Continued from page 3)

“Even if it is a tedious task, complete it to the best of your ability and it will open the doors to more opportunities down the road,” Mankoo said.

eSubscription for HTM Standards

AAMI has updated its HTM Collection for the online eSubscription platform, which allows users to access standards and related documents.

The HTM Collection includes standards dealing with medical equipment management programs, maintenance strategies, disinfection and sterilization of equipment, as well as the *Electrical Safety Manual* and the *CHTM Study Guide*.

The eSubscription offers hospitals and HTM departments a fast and easy way to stay on top of standards dealing with healthcare technology management issues.

For more information, visit www.aami.org/esubscription

CCE Promotion Task Force

(Continued from page 5)

Please check out [the blog on the ACCE website](#).

The Task Force will provide everyone with updates on their activities in upcoming newsletters. If you wish volunteer to help please reach out to either Arif Subhan (Arif.Subhan@va.gov) or Kim Greenwood (kgreenwood@cheo.on.ca).

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

Get your **CCE**



Join us to review everything you need to know to become **Certified in Clinical Engineering**

10-week webinar series starts August 14, 2019

[Registration form](#)



Register for the 2019/2020 ACCE Educational Webinar Series

The Education Committee is extremely excited to announce another year of clinical technology focused webinars. Focusing on practical implementation, we will discuss industry hot topics like cybersecurity and legacy equipment as well as fundamentals for any clinical engineering professional.

Session Date	Session Title	Session Date	Session Title
Sept 12, 2019	Clinical Engineering Project Management 101	Feb 13, 2020	Incident Investigation
Oct 10, 2019	Panel Discussion for Supporting and Replacing Out-of-Support OS	Mar 12, 2020	Business Continuity and Disaster Recovery for CE-IT
Nov 14, 2019	Cybersecurity Guidance: HICP and JSP for CE-IT	Apr 9, 2020	Moving towards UDI
Dec 12, 2019	Acquisition of Clinical Technology Equipment – Highlights from new AAMI guide	May 14, 2020	Cybersecurity Tools in CE-IT
Jan 9, 2020	The Joint Commission Update	Jun 11, 2020	Systems Level Analysis, Moving Beyond the Device

More Information on the 2019-2020 series and registration forms can be found [here](#).

Thank You from the Education Committee!

The Education Committee would like to thank the incredible group of speakers that took time from their busy day to educate us all on a wide variety of topics in clinical Technology. From Project Management to AEM implementation we explored the aspects of business and technology that make up the heart of clinical engineering. We expect to see many of these speakers back in the coming years as they continue to lead the industry with their intuition and vision for clinical technology.



Scot Copeland



Katelyn Bittleman



Jonathan Gaev



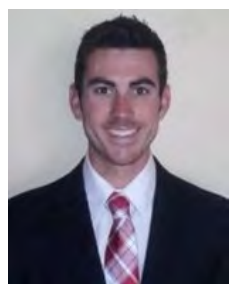
Warren Chandler



Binseng Wang



Herman A. MacKenzie



Robert Patterson



Nick Muhlenbruch



Chris Nowak



Arleen Thukral



D. Courtney Nanney



Carol Davis-Smith

Danielle Cowgill & Eric Aring
Education Committee Co-Chairs

Suly Chi
Webinar coordinator
secretariat@accenet.org

WHO Collaborating Center for HTM-Update

The Technical Services Partnership (TSP) - University of Vermont (UVM) collaborating center led a panel of World Health Organization leaders at the AAMI Exchange Global Track, coordinated by Brad Schoener, PhD, AAMI. Adriana Velazquez, WHO Senior Advisor on Medical Devices was the keynote panelist with three representatives from WHO Collaborating Centers for HTM in the Americas. This included Dr. Renato Garcia, Universidade Federal de Santa Catarina (UFSC), (Brazil); Roberto Ayala, Director – Biomedical Engineering, CENETEC (Mexico); Rossana Rivas, Senior Advisor (Vermont USA); and Tobey Clark, Director (Vermont USA). The session focused on showing examples of HTM successes working with government health systems, universities and NGOs via the WHO network. The panel interacted with the attendees to brainstorm how they can engage globally to improve HTM. Other TSP/UVM staff presenting at the AAMI Exchange in other areas included Mike Lane, Director, Leah Francoeur, Clinical Engineer, and Paige Hamilton, UVM BME student intern.



l-r: Tobey Clark/UVM-CC; Roberto Ayala/CENETEC-CC; Adriana Velazquez/WHO; Renato Garcia/UFSC-CC; Rossana Rivas/UVM-CC & Bradley Schoener/AAMI.

The UVM collaborating center has been an active partner in developing the WHO publication on Decommissioning Medical Devices. A broad range of input has been received from the expert team consisting of global HTA, HTM, and NGO representatives led by Adriana Velazquez.

The Healthcare Technology Planning and Management online course will start with the PAHO Virtual Campus for Public Health beginning on September 9th. The bi-lingual course with Rossana Rivas as the professor of the Spanish course, runs 12 weeks. This is the third offering of the course over the past five years.

The Biomedical Technology Management: Maintenance and Quality Control Workshop was held at Favaloro University in Buenos Aires, Argentina on June 26 and 27. The workshop was coordinated by Sebastián Graf, PhD, Dean – Engineering and Physical Sciences, with 28 biomedical engineering professionals attending including Eduardo Fernández Sardá, the president of the



Faculty Sebastián Graf, Tobey Clark, Rossana Rivas and participants at Favaloro 2019 workshop



l-r: Sebastián Graf, Rossana Rivas and Tobey Clark

Argentina clinical engineering society, and CE department staff from as far away as Cordova (403 miles). The volunteer faculty from the UVM collaborating center included Rossana Rivas and Tobey Clark combined with Dean Graf, with a doctorate in BME, to offer highly interactive sessions on Day 1. Day 2 focused on quality control and maintenance demonstrations and hands-on activities with instructors from Set-Gad and Empresa ETYC – both Fluke Biomedical representatives. Kenichia Charles, St. Vincent and the Grenadines, will start her 14-week internship at UVM in September. She recently graduated with honors from the University of West Indies in biomedical engineering technology.

Tobey Clark
University of Vermont
Tobey.clark@uvm.edu

ACCE Congratulates the 2019 Class of Certified Clinical Engineers (CCE)



Ryan Knight, CCE
Veterans Affairs Cincinnati, OH



Michele Manzoli, CCE
Cedars-Sinai Medical Center, CA



Samantha Herold, CCE
Yale New Haven Health, CT



Jordan A. Keebaugh, CCE
Veteran Health Indiana, IN



Rachel Zhang, CCE
Children's Hospital of Eastern
Ontario



Christopher N. Schabowsky, CCE
ECRI Institute, PA



Hannah M. Frank, MS, CCE
Brigham Women's Hospital, MA



Majdi Samain, CCE
NYU Langone Health System, NY



Danielle M. Everhardt, CCE
Air Force Medical Readiness
Agency, MD



Hosam Elsemany, CBET, CCE
Yale New Haven Health, CT



Jason Howard, CCE
VA Long Beach Healthcare
System, CA



Andrew Moser, CCE
VA Puget Sound Healthcare
System, WA



Jane M. Lacson, CCE
Fayetteville VA Medical Center,
AR



Allison Stockdale, CCE
VA Eastern Colorado Healthcare,
AZ



John S. Moore, Jr., CCE
DeltaStrac LLC, Contractor for Defense
Health Agency, MD

Member Career Transitions

Welcome to our new ACCE News feature celebrating job-related transitions for ACCE members. Please contact Suly Chi, ACCE Secretariat (secretariat@accenet.org), if you would like to be included in an upcoming issue or if you have a suggestion for another member who should be included. Congratulations to Dave, Julio, and Jim on their exciting new roles.



Dave Francoeur, CBET, CHTM

Dave joined Tech Knowledge Associates (TKA) as its Senior Vice President of Marketing and Sales. He is responsible for national business development through networking and education to promote TKA as a premium Healthcare Technology Management (HTM) organization that serves as a professional, cost-effective alternative or supplement to OEMs and HDOs.



Julio Huerta, CHTM

Julio has moved to a new position with JLL Healthcare Solutions as Senior Director of Business Operations. Julio will be supporting JLL's healthcare organization clients with HTM-related operations and medical equipment and transition planning consultation services. JLL's experts drive quality in services ranging from planning, outfitting, and coordination to patient relocation and post occupancy support.



James P. Keller, Jr., FACCE

Jim has been hired by Emergo by UL as a Business Development Director. Jim will be working with Emergo by UL to grow its regulatory-related compliance and innovation services for the medical device and invitro diagnostic industries and other healthcare-related organizations, including HDOs and ISOs. Jim's area of focus will include quality management system consulting, human factors engineering, medical device cybersecurity, regulatory submissions, post-market surveillance, and regulatory-related clinical research.

Just released: CCE Study Guide V8.0 – July 2019

ACCE would like to thank you the volunteers who contributed over the past 23 years (1996-2019) to update the CCE Study Guide. Many new topics had been introduced to the V8.0 and several topics had been brought up to date. [Order your copy here.](#)

Recent and previous contributors include:

V8.0 (July 2019): Katherine Navarro, Lucio Brito, Sarah Brockway, Mark Bruley, Jennifer DeFrancesco, Murat Firat, Dave Gretzinger, Renee Huval, Bhaskar Iduri, Scott Kopp, Nicholas Muhlenbruch, Bhavesh Patel, Sara Salari, Rehman Syed, Binseng Wang, Rachel Zhang.

V7.0 (May 2018): Katherine Navarro; Bhaskar Iduri; Renee Huval; Sarah Brockway; Rehman Syed; Arleen Thukral; Jeanine Maier; Meet Patel; Tony Tai.

V6.0 (August 2016): Matthew Baretich; Tobey Clark.

V5.0 (May 2016): Christopher Falkner, Jennifer DeFrancesco, Austin Hampton

V4.0 (July 2014): Jacob Johnson; Jennifer DeFrancesco

V3.0 (August 2012): Ilir Kullolli; Kindall Druker; Frank Painter

V2.0 (July 2007): Arif Subhan; Ismael Cordero; Evelyn Fan; Robyn Frick; Jennifer Jackson; Jeff May; Frank Painter; Bokang Rapoo

V1.0 (1996): Stephen L. Grimes, Chair; Jerry Anderson; Salil Balar; Ted Cohen; Vinnie DeFrancesco; Izabella Gieras; Frank DeFrancesco; Izabella Gieras; Frank Painter; Christine Ruther; Marv Shepherd



Welcome New Members!

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

Name	Class	Job Title	Organization	Country
John Schafer	Individual	Clinical Engineering Regional Manager	Prisma Health	SC/USA
Ana Paulette Arreygue	Candidate	Graduate Student/CE Intern	UCONN/MGH	MA/USA
Walid Tarawneh	Individual	Senior Medical Equipment Planner	KEO International Consultants	Jordan
Frank Rothe	Individual	Head of Clinical Engineering Management Europe	VAMED Management and Service GmbH Deutschland	Germany
Rachel Zhang, CCE	Institutional/Individual	Clinical Engineer	Children's Hospital of Eastern Ontario	Canada
Megan Friel, CCE	Upgrade to Individual	Associate Director	VHA- Dept. Veterans Affairs	TN/USA
Rahiemin Tawkder	Institutional/Associate	Biomedical Engineer	Department of Veterans Affairs	ID/USA
Devang J. Patel	Institutional/Individual	Chief Biomedical Engineering	VA Houston	TX/USA
Mike Smith	Individual	Clinical Engineering Manager II	Trimedx/St Elizabeth Hospital	WI/USA
Bhavana Karuturi	Individual	Director of Capital Equipment Planning	Mass Technologies	OH/USA
Aditya Chauhan	Institutional/Associate	Associate Director, Clinical Systems Engineering	Cedars-Sinai Medical Center	CA/USA
George Lopez	Institutional/Associate	Clinical Systems Engineer	Cedars Sinai Medical Center	CA/USA
Mohammed Samer Alhassen	Institutional/Associate	Sr. Clinical Systems Engineer	Cedars Sinai Medical Center	CA/USA
Christopher Ecijan	Institutional/Associate	Clinical Systems Engineer	Cedars Sinai Medical Center	CA/USA
Jordan Keebaugh, CCE	Institutional/Individual	Chief Health Technology Management	Richard L. Roudebush VA Medical Center	IN/USA
Justin Marquardt, CCE	Upgrade to Individual	Clinical Systems Engineer	Kaiser Permanente	CA/USA
Hosam Elsemany, CCE	Upgrade to Individual	Clinical Engineer	Yale New Haven Health	CT/USA
Jane Lacson, CCE	Institutional/Individual	Chief Biomedical Engineering	Veterans Health Care System of the Ozarks	AR/USA
Andrew Ibey, CCE	Institutional/Individual	Manager, Clinical Engineering	Children's Hospital of Eastern Ontario	Canada
Parisa Bahraim, CCE	Institutional/Individual	Clinical Engineer	Children's Hospital of Eastern Ontario	Canada
Payal Mandot	Institutional/Associate	Master Program/Clinical Engineer Intern	Children's Hospital of Eastern Ontario	Canada
Abiola Ogungbemile	Institutional/Individual	Business Systems Analyst	Children's Hospital of Eastern Ontario	Canada
Mugdha Manerkar	Institutional/Associate	Clinical Engineer	Children's Hospital of Eastern Ontario	Canada
Benjamin Graham, CCE	Upgrade to Individual	Clinical Systems Engineer	Kaiser Permanente	MD/USA
Christine Vogel	Upgrade to Individual	Clinical System Engineer	Partners Healthcare System/	MA/USA
Yogesh Rajak	Upgrade to Individual	Clinical Systems Engineer	Kaiser Permanente	CA/USA
Maximiliano Velez Mejia	Upgrade to Individual	IT-Biomed Integration Analyst II	Nicklaus Children's Health System	FL/USA

Welcome to our newest Institutional Member: Children's Hospital of Eastern Ontario



2019 ACCE Officer and Board Election

Thank you for participating in the 2019 ACCE Officer and Board Election and casting your important vote. The election for ACCE's new Board for the year 2019 has been finalized and the Board has approved the results.

The election ballot was emailed to 318 eligible members, that include Individual, Fellow and Emeritus members in good standing. Institutional/ Corporate Fellow and Individual members also participate in elections. Of the 318 members, 101 votes were received between July 1 and July 20, 2019, 4 were blank votes.

The new Board of Directors will take office as the governance body for ACCE on August 16, 2019. We are pleased to announce the 2019-2020 team and, as always, we look forward to serving you and your needs.

Title	Name	Votes Received
President	Ilir Kullolli	96
President Elect	Priyanka Upendra	95
Vice President	Pratyusha Pedaprolu	95
Treasurer	Samantha Herold	95

The following Board members will be continuing their terms:

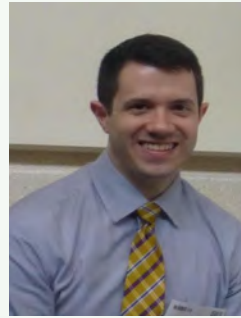
Title	Name
Member at Large	David Braeutigam
Member at Large	James Caporali
Member at Large	Samantha Jacques
Member at Large	Kim Greenwood

The following Board member will automatically become Immediate Past President when the new President takes office:

Title	Name
Immediate Past President	Arif Subhan

Priyanka Upendra
ACCE Secretary
secretary@accenet.org

New Co-Editor



Join us to thank our outgoing ACCE News Co-Editor Jared Ruckman, MS, CCE

In great appreciation to Jared for his dedicated support as ACCE News co-editor March 2011- June 2019.



ACCE welcomes Ismael Cordero as ACCE News Co-Editor

Ismael Cordero is a Senior Project Engineer at ECRI Institute where he conducts evaluations of medical devices and investigates reports of medical device hazards.

Ismael has worked in more than 50 countries for efforts led by ACCE, the World Health Organization (WHO), and many other international organizations.

Ismael was the recipient of the 2008 ACCE Professional Achievement in Management Award and the recipient of the 2014 ACCE Foundation & ACCE Robert L. Morris Humanitarian Award.

If you are interested in contributing please submit your article/ advertising to editor@accenet.org



Report of ACCE events at AAMI Exchange 2019



Presenters (l-r): Mike Busdicker and Perry Kirwan

Monday Education Session –Elevating the CE-HTM Department: Getting Out of the Basement- by Priyanka Upendra

The ACCE Education Session on Monday, June 10, 2019, included expert insights on how to showcase CE-HTM value to the healthcare organization. Mike Busdicker and Perry Kirwan shared a detailed overview of how they have moved from being a bench-repair shop to a department that manages clinical technologies cradle-to-cradle, at Intermountain Healthcare and Banner Health. Both the experts shared their program histories, and success stories of the systemization and standardization methodologies they have implemented at their organizations.

In addition to the programmatic details, Mike and Perry shared the 7 key steps to success that CE-HTM programs can implement that will allow them to showcase their value to the healthcare organization and customers, which is the patient. The education session was well attended with active participation from the audience.

ACCE Seminar Part I – The Ins and Outs of A CE Program: Personnel Management for Clinical Engineering/ Biomedical Engineering Teams – Career development, succession planning, internship program- by Samantha Jacques

ACCE's seminar at AAMI Exchange 2019 brought new insights to area of Personnel Management. Steve Juett partnered with Jeremy Rogers from Intermountain Health to provide not only a high-level review of how HTM departments should be managing staff, but also did a deep dive into how to help staff think about growth and development. As most HTM departments are facing a shortage in workers, tactical plans for succession planning and career development is needed throughout the community. These two presenters did a great job taking high-level concepts and distilling them down to actionable plans that can be implemented in any HTM department across the country.



Presenters (l-r) Jeremy Rogers and Steve Juett



Round table panelists left-right: Mike Busdicker, Robert Jensen, Sue Schade and Ilir Kullolli

ACCE Seminar Part II - Roundtable panel: The Future of Clinical Engineering- by Priyanka Upendra

ACCE's Roundtable panel at AAMI Exchange 2019 brought Rob Jensen (CEO, AAMI), Sue Schade (StarBridge Advisors), Mike Busdicker (System Director, Intermountain Healthcare), and Ilir Kullolli (Director, Stanford Children's Health) together to discuss the future of Clinical Engineering.

Rob and Mike shared their insights on how CE has grown from a profession focused on break-fix to now managing systems and technologies in a more holistic approach. Sue and Mike shed light on what CE departments can do to create dashboards that show their impact on the healthcare business, data, workflow, and patient access. Several members from the audience agreed with the fact that CEs can do better in terms of reporting and dashboards, but also need to report the numbers for regulatory purposes. Ilir did a great job at summarizing the importance of CE reports/ dashboards, involvement in capital planning, and abilities to support clinical technologies. This session was very well attended and had an engaging audience throughout.

ACCE Sunday Education Session: Clinical Engineering Project Management- by F. Mike Busdicker

The ACCE Education Session on Sunday, June 9, 2019, covered HTM/CE Project Management 101.

Ray Laxton and Dave Francoeur shared detailed information on how to utilize basic project management skills and how these tools can help HTM/CE personnel stay on top of department or facility level projects. The session included an overview of IT related project management processes and how these tools could be utilized within the HTM industry. The duo also covered a significant amount of information specifically related to HTM and presented personal examples of successful project management utilization within healthcare systems and service companies. Implementation of the tools and information presented during this session will provide HTM/CE personnel an opportunity to improve project management, department performance, and productivity of personnel.



Presenters: Ray Laxton and Dave Francoeur

ACCE-JACE-JSMI Session on Medical Device Incident Reporting and Investigation at AAMI Exchange- by Binseng Wang, International Committee Chair

In collaboration with the Japanese Association of Clinical Engineers (JACE), ACCE organized a session in the 2019 AAMI Exchange on Saturday, June 8, 9:15-10:15 AM. This time slot was generously provided by the Japanese Society of Medical Instrumentation (JSMI). The session was presided by Jun Yoshioka, professor at Gumma Paz University's School of Clinical Engineering and moderated by Tomokazu Nagasawa of University of Colorado Health, Yashi Osaka of Sakura Seiki Co. Ltd. and Binseng Wang of BSI. The speakers were Dr. Fumika Aoki, Business Director of Japan Association for the Advancement of Medical Equipment (JAAME) and Senior Research Fellow with JACE, and Larry Fennigkoh, Professor of Milwaukee School of Engineering, representing JACE and ACCE, respectively. Dr. Aoki provided a detailed description of the Japanese adverse event reporting regulations, incident investigation process, and examples of safe actions that involved CE professionals. Dr. Fennigkoh discussed lessons learned from investigating numerous incidents that resulted in patient injuries and deaths, and how CE professionals should refrain from blaming



the individuals involved and, instead, seek to distinguish active failures from latent conditions so future incidents can be reduced if not eliminated. This session was well attended and received enthusiastic feedback from the participants afterwards,

Dr. Fumika Aoki presenting at ACCE-JACE/JSMI Session. Seated (l-r) are panelists: Jun Yoshioka, Tomokazu Nagasawa and Larry Fennigkoh.



Dr. Larry Fennigkoh making presentation at ACCE-JACE Session. Seated l-r: Fumika Aoki, Jun Yoshioka and Tomokazu Nagasawa



L-R: facilitators: Binseng Wang, Jun Yoshioka, Tomokazu Nagasawa, co-presenter: Larry Fennigkoh

2019 ACCE members meeting/awards reception by Clarice Holden, Advocacy Committee Chair

ACCE members meeting at the AAMI Exchange 2019 held this year in Cleveland, OH was well attended. It was an evening of coordinated networking and appreciation of the past years' worth of ACCE accomplishments. ACCE President Arif Subhan opened the evening event and passed the torch to President Elect, Ilir Kullolli, and Ilir deftly presented the program for the evening. Even Robert Jensen, AAMI President and George Mills, formerly of the Joint Commission, joined in the celebration and congratulation of the Advocacy Award winners.

2019 was the inaugural year of the ACCE Scholarship, and the first recipient could not have been more worthy. Ms. Ana Paulette Arreygue is a current student of the University of Connecticut Clinical Engineering Master's program. She outshone the competition with a moving personal statement and outstanding commendation letters from mentors. Congratulations to Ms. Arreygue for being the very first winner of the ACCE Scholarship Program!



**AAMI
exchange**
#AAMIExchange2019

CLEVELAND, OH
June 7–10, 2019



Over 250 members/guests attended the 29th meeting/reception.



Suly Chi, Adriana Velazquez and Jennifer Jackson



Friends from AAMI



Young Clinical Engineers



Women in Clinical Engineering



Ray Zambuto and Frank Painter



Delicious food for everyone



President Arif Subhan opening the 29th members meeting/awards ceremony



President-Elect Ilir Kullolli co-hosting the event



Carol-Davis Smith receiving the 2019 ACCE Fellow member plaque



Barbara Maguire receiving her 2019 ACCE Fellow plaque



Ana Paulette receiving from Arif Subhan, the 2019 Student Scholarship certificate and check in the amount of USD 1,500



Kimberly Sekiya receiving her 2019 Professional Achievement in Management Award



Matt Baretich receiving from Arif Subhan his 2019 Lifetime Achievement Award plaque



Samantha Jacques receiving from Arif Subhan, the 2019 Professional Achievement in Technology/Professional Development Award



Katrina Jacobs and Shelly Crisler receiving the 2019 ACCE/HTF Marv Shepherd Patient Safety Award plaque on behalf of the Department of Veterans Affairs - team of Biomedical engineers from CEOSH, NCPS & HTM.



Katelyn Bittleman receiving from Arif Subhan the 2019 ACCE Challenge Award



Elliot Vernet received from Arif Subhan the 2019 Antonio Hernandez International Clinical Engineering Award Plaque



Cooper Schwabe receiving from Arif Subhan, his 2019 Student Paper Competition winning certificate



Steve Grimes inducted to 2019 Class of Clinical Engineering Hall of Fame



The late Dave Harrington was inducted to 2019 Class of Clinical Engineering Hall of Fame (receiving on his behalf, long time friend Ray Laxton)



Yadin David was inducted to 2018 Class of Clinical Engineering Hall of Fame



Jim Wear was inducted to 2018 Class of Clinical Engineering Hall of Fame.



Many Furst, inducted to 2019 Class of Clinical Engineering Hall of Fame



AAMI 2019 Global Track, June 7-10, 2019– by Brad Schoener, Tom Judd, Binseng Wang, Yadin David

For the second year, [AAMI](#), [ACCE](#), and [IFMBE/CE](#) partnered together to produce a Global Track at the AAMI annual meeting. The Track was strategically located and well attended. It was developed with input from Brad Schoener of AAMI, Binseng Wang of ACCE, and Tom Judd & Yadin David of IFMBE/CE. The program grew from three hours in 2018 to nine hours in June 2019 and doubled the number of interna-

tional colleagues involved. Most of the more than 40 Global Track presentations can be viewed on-line at <https://ced.ifmbe.org/blog/day-1-aami-exchange-2019-videos-presentations.html>

Pictures of Day 2 of the Global Session ‘Contributing to CE-HTM Globally Top Down’ and Daily Debriefing: see *Adriana Velazquez’s AAMI Exchange Buzzworthy Moment by 24x7*, can be seen at the [CED Blog](#).

Assessment

The 2019 Global Track was very successful in several ways. The “How you can contribute” sessions reminded all that individual global efforts are important but could be magnified by more joint initiatives between various stakeholders. Part A of this session - Bottom up - focused on how organizations (foundations or companies) or individuals serve whereas Part B - Top down - showed how CE-HTM volunteers can become involved addressing country or region CE-HTM gaps through global government agencies, universities, and WHO collaborating centers. The Global Best Practices sessions shared how long-standing or newly developed national CE professional societies are creating a platform to make a difference in their countries and regions. Also, Japan’s Society for Medical Instrumentation (JSMI) and Japan Association of Clinical Engineers (JACE) in collaboration with ACCE led two significant sessions on device incident reporting and the impending impact of Internet of Medical Things on the CE-HTM professions. Finally, Monday’s Global OEM and CE-HTM leader partnerships demonstrated successful case studies in Africa, Asia, Europe, and North America.



Dr. Yadin David & Assist International team

The discussion during the sessions and daily debriefings afterwards yielded some key desired next steps:

- Developing a cooperative global CE-HTM platform for sharing how our respective CE-HTM communities can volunteer and engage with global opportunities
- Continuing to identify and communicate country-level, regional and global gaps in CE-HTM, so that this partnership can work together to help address the gaps
- Developing solutions for global CE-HTM lifecycle management, e.g., on-line troubleshooting networks connecting estab-



lished centers equipment maintenance centers with those in low resource areas that need support.

Conclusions

The three partnering organizations and other international stakeholders like Japan will continue to look for ways to work together and implement solutions that benefit many around the globe.

Program

Friday June 7	Global Reception – Opening Remarks: Rob Jensen (AAMI), Tom Judd (IFMBE CED), Arif Subhan (ACCE)	AAMI 2019 Global Track organized by: Brad Schoener, PhD, VP Innovation, AAMI Binseng Wang, ScD, Chair ACCE International Committee Tom Judd, MS, Chair, IFMBE Clinical Engr. Division	
Saturday June 8	How You Can Contribute to CE-HTM Around the World – Bottom Up, Part A Ray Dalton, Dalton Foundation, Facilitator, USA Henry Hummel, CEO, TRIMEDX, USA Tom Monaghan, Biomed Support in low resource environ., Haiti David Lamoureux, Avante Health Solutions, USA Roy Morris, Gift of Life International, USA-call from Phillipines Learn how individual volunteer Clinical Engineers, HTM and Corporate Leaders are working to implement practical and proven methods on how equipment is donated, prepared, delivered, installed and serviced in second and third world communities. Hear the panel discuss the do's and don'ts of being involved in the lifecycle management of medical equipment in these global settings.	Global Best Practices in CE-HTM, Part A Bill Gentles, BT Consulting, Canada Herberth Bravo, President, SOMIB, Mexico Mike Capuano, CCE, CBET, President, CMBES, Canada Riad Farah, CHTM, T George Hosp-Univ Medical Center, Lebanon, Ashenafi Hussein, Chair, IFMBE WGAA, Ethiopia Stanley Siu, MS, HKIE, Hong Kong Hiro Igeta, Aso Izuka Hospital, Japan A 2018 World Health Organization survey showed over 800,000 CE-HTM practitioners (CEs & BMETs) globally. These two sessions and 12 presenters will highlight some of our global colleagues' CE-HTM best practices as captured in a 2018 published study showing 400 CE Success Stories from 125 countries.	JSMI/JACE-ACCE: Medical Device Incident Reporting and Investigations in the US and Japan. Tomokazu Nagasawa & Binseng Wang, Facilitators. Jun Yoshioka, session chair Fumika Aoki, Ph.D., MBA, CCE, JSMI Larry Fennigkoh, PhD, PE, CCE, FACCE, Milwaukee, USA This session will provide useful advice on succeeding in clinical and biomedical engineering (BME) competencies and discuss medical device incident reporting and investigations in the US and Japan. A variety of forensic engineering case studies involving device-related patient injuries and deaths will also be presented to support the concepts, processes, and value in doing such incident investigations.
Sunday June 9	Contribute to CE-HTM - Top Down, Part B Tobey Clark, MS, CCE, University Vermont-UVM, WHO Collaborating Center Adriana Velazquez, MSCE, WHO Global Medical Devices Adviser Roberto Ayala, CENETEC, WHO Collaborating Center, Mexico Dr. Renato Garcia, Professor IEB/UFSC, WHO Collaborating Center, Brazil Rossana Rivas, Senior Adviser, UVM, WHO Collaborating Center, Peru	Global Best Practices in CE-HTM, Part B Ilir Kullolli, MS, Stanford, ACCE Pres. Elect, Facilitator Marcello D Bonfim, Hosp Sirio Libanes, Sao Paulo, Brazil Jitendar Sharma PhD, CEO, AMTZ, former MOH, India Lorenzo Leogrande, President, AIIC, Italy Bassam Tabshouri, Amer Univ Hosp., Beirut, Lebanon Mery Vidal, CCE, President, ASPIC, Lima, Peru	Turning On Industry – Country Advancement in Medical Device Development Jitendar Sharma, AMTZ, India Wongwit Senavongse, Thailand, Council of Engineers Chii-Wann Lin, GD BL and VP ITRI, Taiwan Ricardo Silva, USA and Ramon Velez, Venezuela
Monday June 10	Global OEM & CE-HTM Leader Partnerships (2 hours) Yadin David, EdD, CCE, IFMBE CED Board, Facilitator, USA Doug Dreps, Mercy Health & Pierrette O'Brien, GE Medical, USA Jitendar Sharma PhD, MOH & Public-Private Partnerships, India Lorenzo Leogrande, AIIC Italy & Olympus, Italy Ashenafi Hussein, WGAA Africa & GE Foundation/Assist International: Benjin Joshua, USA & Masreshaw Demelash, Ethiopia Bill Gentles, Canada's initiatives for Donations in Ghana	IoMT Impact on CE-HTM (Japan Association of Clinical Engineers-JACE) Tomokazu Nagasawa & Tom Judd, Facilitators Nobuhiro Mori, Kameda Medical Center, Japan Ricardo Silva, Villanova University, USA and Ramon Velez, Bildk Inc., Venezuela Masanori Takashina, Osaka University Hospital, Japan	


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 \$265). You must [login](#) to the ACCE website to view the code. Then visit [LWW.com](#) to enter code.



ACCE Calendar

8/14/2019 -  [CCE Review Webinar Series - Session#1: Technology Management I, by Painter](#)

8/14/2019 - [CEAI 2019](#), Chicago

9/12/2019 -  [2019-2020 Webinar series, session#1: Clinical Engineering Project Management 101](#)


9/23/2019 - [2019 National Health Information and Technology Week #NHITWeek](#)

10/2/2019 - 10/5/2019- [CLAIB 2019](#), Mexico

10/10/2019 -  [2019-2020 Webinar series, session#2: Panel Discussion for Supporting and Replacing Out-of-Support OS](#)

11/2/2019 - [2019 CCE written examination](#)

[ACCE Online Events Calendar](#)

 denotes Webinar

ACCE

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