



Symposium 2019

December 6 –8

At Disney's Coronado Springs Resort

**Continuing Education,
Networking and Support
for Florida's Healthcare
Technology Management
Professionals**





2019

[Register for FBS 2019](#)

Symposium Schedule

Thursday 12/05: Evening arrival and Tyler's Hope Event

Friday 12/06: 7:00am to noon - Golf Tournament at Disney's Magnolia Golf Course (Trans. provided)

7:00am – Registration Desk Open

7:15am – 8:00am Fast Track Breakfast in Convention Center

8:00am to 5:00pm – Educational Tracks

Coffee breaks & Lunch provided

Noon to 4:00pm – Exhibit Hall Vendor Setup

4:30pm to 6:30pm – Exhibit Hall Grand Opening

7:00pm to 8:30pm – Vendor Reception (La Mesa Patio)

9:00pm to 11pm – TBA

Saturday 12/07: 7:00am to 7:30am – Morning Reception / Continental Breakfast

7:30am to 7:45am – President's Address

7:45am to 8:15am – Keynote Speaker—Larry Hertzler

8:15am to 8:45am – FBS Awards

8:45am to 9:15am – Transition to Education

9:15am to 12:30pm – Education Tracks

12:15pm to 3:30pm – Exhibit Hall Open (Lunch with Vendors)

3:30pm to 4:30pm - Vendor Exhibit Hall Breakdown

6:15pm to 7:00pm – Travel from CSR to Epcot (Epcot Event registration required)

7:00pm to 8:30pm - Epcot's America Pavilion Reception (Epcot Event Registration required)

8:30pm to 9:30pm – Epcot's Illuminations –Epcot France (Epcot Event registration required)

Sunday 12/08: 9:00am to TBD - FBS Board Meeting

800am to TBA - ACI CBET Exam

Education Schedule - Friday, December 6

Friday December 6, 2019 - 8:00am to 5:00pm

Time	Class Duration	Classroom	Class Name	Instructor	Presented by
8:00 am - 12:00pm OR 1:00pm - 5:00pm	4 hours	Coronado A	Zoll R series Defibrillator Maintenance and Service	Bruce Hallowell	Zoll
8:00 am - 5:00pm	8 hours	Coronado B,C	Networking Basics and Networking Security	Garret Seeley	Garrett Seeley
8:00 am -12:00pm OR 1:00pm - 5:00pm	4 hours	Coronado D	Philips Epiq 5&7 Maintenance and Repair	Kyle Grozelle	Summit Imaging
8:00am - 5:00pm	8 hours	Coronado F,G	Intro to Diagnostic Imaging Equipment Service	Dale Cover	RSTI
1:00pm –5:00pm	4 hours	Coronado E	Helping HTM Departments Navigate the Ever Changing Landscape	Jeff Fetterolf, Brian Bennetti, Dennis Carr and Andrey Tsupruk	Steris

Education Schedule - Saturday, December 7

Session 1 - 9:15am to 10:45am

Saturday December 7 - Session 1 9:15am to 10:45am

Classroom	Class Name	Instructor	Presented by
Coronado A	Philips MX40 Telemetry Monitors	Sajeed Salam	USOC
Coronado B	The Principles of Operation of Anesthetic Vaporizers	William Narey	GAS
Coronado C	Principles of Electrosurgery	Dale Munson	BC Group
Coronado D	Ins and Outs of ACI Certification	Sherrie Schulte	AAMI
Coronado E	What Why and How of Continuous Improvement	Jeff Ross	Trimedx
Coronado F	Get Out of your Own Way! Be the Best You to your Customers	Chyrill Sandrini	Multi Medical Systems
Coronado G	Elevating the HTM Department	Mike Busdicker	Mike Busdicker
Monterrey 2	Bladder Scan Prime Plus Overview	Frank Gant	Verathon
Monterrey 3	CBET Review –Part 1 (also register for part 2, session 2)	Lou Katchis	Lou Katchis

Education Schedule - Saturday, December 7

Session 2 - 11:00 am to 12:30pm

Saturday December 7 - Session 2 11:00am to 12:30pm

Classroom	Class Name	Instructor	Presented by
Coronado A	Philips MMS Module Service	Andrew Sycip	USOC
Coronado B	Injector Support—Stellant and Solaris Error Troubleshooting	Ryan Clarke	ISS
Coronado C	Quality and Regulatory Toolbox	Denisa Lambert	Trimedx
Coronado D	What's in the Pipeline Affecting HTM and You?	Danielle McGearry	AAMI
Coronado E	Data Analytics and Real-time Intelligence in HTM	Mike Kintner	Trimedx
Coronado F	Surgical Services for the Biomed	Chyrill Sandrini	Multi Medical Systems
Coronado G	HTM and Cybersecurity	Mike Busdicker	Mike Busdicker
Monterrey 2	DICOM Basics	Garrett Seeley	Garrett Seeley
Monterrey 3	CBET Review –Part 2 (also register for part 1, session 1)	Lou Katchis	Lou Katchis

4 hour classes

Choose 1st presentation 8:00am to 12:00pm

OR second presentation 1:00pm to 5:00pm



Philips Epiq 5&7 Maintenance and Repair

Presented by: **Kyle Grozelle, Manager of Global Education and Training at Summit Imaging**

This course will contain content and hands on experience with the two major types of Philips Epiq equipment in the field today, with the same trouble shooting and hands on experience as our in house courses. Leverage new tools and ideas efficient in the troubleshooting process. Th use of PCs and our patent pending software



Zoll R series Defibrillator Maintenance and Repair

Presented by: **Bruce Hallowell, Service and Quality Manager with ZOLL Medical.**

Course topics: Introduction and Review of ZOLL Service, Device Overview and PM requirements, Functional description of the R Series and monitoring parameters, Automated Readiness Testing, Overview of daily self-checks, Accessing self-test history, Overview of Defib Dashboard, Device Disassembly Overview, Review of the internal components of the device and how to disassemble.



1:00pm to 5:00pm only

Helping HTM Departments Navigate the Ever Changing Landscape

Presented by: **Steris**

The world around continues to change with many changes beginning to all of us – hospitals, ASC's and even OEMs. This session will provide a market overview, practical tips and some ways STERIS is navigating these major changes. We will cover changes in the regulatory environment, labor shortages, AI & IoT, and Customer Expectations. Join us to learn practical ways you can begin to navigate these major changes successfully and even get ahead of them.

Session Topics: The Current Environment, Navigating Regulatory Changes and Preventive Maintenance, Navigating AI and IoT in An Environment of Increasing Data, Navigating a Changing Workforce, Navigating Increasing Customer Expectations

8 hour classes

8:00am to 5:00pm



Networking Basics and Network Security

Presented by: **Garrett Seeley, Associate Professor of Biomedical Equipment Technology at Texas State Technical College**

Networking basics addressing the basics of networking as well as the terms and the hard skills needed for a BET1 in the field. The first half will illustrate a walkthrough of WINS settings and permissions used in basic file sharing - including the basics of active directory and the basics of TCP/IP and wireless networking including troubleshooting of a network using the command line access in Windows 10. The wireless lecture will include settings used in a wireless access point and a demonstration of laptop wireless site scanners. The Network Security presentation will provide a brief history of recent attacks, a definition of ransomware and how it is different from other viruses, a run-through of the effects of cryptolockers on hospital equipment and suggestions for a course of action for minimizing security risks.



Intro to Diagnostic Imaging Equipment

Presented by: **Dale Cover, Senior Technical Instructor, RSTI**

This presentation will introduce the basic principles of X-ray systems, safety and physics related to medical imaging systems. This course is designed to help today's biomedical engineers and managers develop a better technical understanding of today's imaging modalities. A basic technical understanding can help any biomedical engineer or manager responsible for imaging departments. Course topics include: Introduction to radiography; Radiology Modality Basics ; X-rays: an overview; Modality Operational Procedures; QA & QC, Functions of basic elements, Proper usage, PACS Overview.



Education Sessions - Saturday, December 7

Session 1 - 9:15am to 10:45am



Philips MX40 Telemetry Monitors

Presented by: **Sajeed Salam, Senior Engineer (Telemetry Department) USOC**

Basic overview of troubleshooting and servicing Philips MX40 Telemetry monitors. Course topics include: Introduction and troubleshooting, Telemetry Monitor Introductions, Philips MX40 Versions & Identifying them, IntelliVue Support Tool Mark2 Software, Common Issues & Solutions, OEM Compatible Replacement parts.



The Principles of Operation of Anesthetic Vaporizers

Presented by: **William "Bill" Narey, CEO and owner of General Anesthetic Services, Inc.**

Course topics: Principles of operation, What is Vapor, Why preventative Maintenance makes sense, Indications that service is required, Consequences of not Maintaining vaporizers, Patient safety, How to efficacy test vaporizers



Principles of Electrosurgery

Presented by: **Dale Munson, Owner of Biomed Support Services, LLC**

If you're new to electrosurgical principles and applications or perhaps a little rusty on key terminology and concepts, this brief overview will provide foundational information that applies to any "bovie" in use today.

Course topics: History of cautery and advent of electrosurgery, Key events in electrosurgery, Pioneers in electrosurgery: Galvani, Morton, DeForest, Bovie and Cushing, Electrosurgery basics, Foundational terminology, Monopolar vs. bipolar, Four primary electrosurgical procedures, Ablation, Vessel sealing & tissue fusion, Patient Return Electrodes (PRE), Types and construction materials, Pad placement, Causes of patient burns, REM & CQMS



Ins & Outs of ACI Certification

Presented by: **Sherrie Schulte, CAE, Vice President of Education at AAMI**

Earning ACI certifications can give professionals a way to demonstrate their accomplishments, their experience in core competencies and highlight a professionals' ability to provides quality service. This session will cover all aspects of the certification process, how to maximize the benefits of certification within your organization and how to become involved in different aspects of the ACI certification program.



Education Sessions - Saturday, December 7

Session 1 - 9:15am to 10:45am



Why, What and How of Continuous Improvement

Presented by: **Jeff Ross, Vice President of Continuous Improvement at TRIMEDX**

Many times, we are asked “Why do we do continuous improvement?” The goal of continuous improvement is to surface and solve problems in order to make the right work easier to do. It is about solving problems and putting wins “on the board”. Finally, CI is deeply rooted in respect for all associates by listening to their ideas, implementing the improvements and celebrating success as a team. This course will explore ways to achieve each of these topics and how they connect with the Toyota Way.



Elevating the HTM Department

Presented by: **Mike Busdicker, System Director of Clinical Engineering Support Services at Intermountain Healthcare**

This session will help attendees understand how the HTM department at Intermountain Healthcare has become a go-to source in helping achieve the organization’s mission and vision. Course topics include: Introduction to Intermountain Healthcare, Initial Evaluation and Findings of the HTM Department, Systemization and Standardization – Pitch to Leadership, Seven Key Steps to Success, Where Do We Stand Today, HTM Organizational Transparency, Questions. 1. Provide data and information on the initial scope, program coverage, and organizational impact the HTM Department had at Intermountain Healthcare. 2. Outline the business plan presented to system level leadership allowing the HTM Department to provide significant contributions in helping the organization to meet its Mission and Vision 3. Provide information around seven steps to elevate the HTM Department and where the Intermountain HTM Program sits within the healthcare system today.



Bladder Scan Prime Plus Overview

Presented by: **Frank Gant, Service Partner Trainer, Verathon**

Course topics include: Introduction, Overview of the Service Partner program, ImageSense Video, Features and Operation of the System, Certifying the System Demo, Hands-on Opportunity, Q&A, Presentation of Certificates of Attendance



Get Out of your Own Way! Be the Best You to your Customers

Presented by: **Chyrril Sandrini, Director of Surgical Services & BioMedical Solutions, MMS**

Behavior becomes habit, and habits become our reality. Overcome your obstacles and be your best YOU to your customers and your colleagues. Find your self confidence and learn how verbal judo can be your best friend. An engaging participation encouraged class full of laughs and self-introspect.



BMET Review -Part 1 (also sign up for part 2, session 2)

Presented by: **Louis Katchis, a founding member of the Florida Biomed Society who has been active in the Biomedical Engineering Field for over 45 years. He served on both of the AAMI- BMET and CCE certification boards and the TMC board.**

The brief 2 session course will cover the reasons for you to consider undertaking the BMET Exam, the value of Certification to your career, application technique, best methods to study for the test, reference materials, joining with a group. Special training materials will be supplied by the instructor. As time allows, we will actually take a trial test from the AAMI study materials. It will give you insight to how and what to study and take the test efficiently. A copy of the application will be provided. A special door prize will be awarded at the end of the course.

Education Sessions - Saturday, December 7

Session 2 - 11:00am to 12:30pm



Philips MMS Module Service

Presented by: **Andrew Sycip, Biomedical Technician, Module specialist, USOC**

Basic overview of troubleshooting and service of Philips MMS modules. Course topics include: What are MMS's, The "Brain" of a Monitor, differences between models and Old Style vs New Style, Parameters and options ECG SPO2 NIBP IBP/Temp CO2, Setting Up, Troubleshooting, Testing, Disassembly and Repair, Calibration



Quality and Regulatory Toolbox

Presented by: **Denisa Lambert, VP, Quality & Regulatory Compliance TRIMEDX**

Course topics include: Regulatory Compliance; Accreditation; Crosswalk of DNV, HFAP; DNV, Local, State, Federal Regulations; Potential Equipment/Patient Incidents; Process; Close the loop. Preventive Maintenance; PM Requirements; AEM vs OEM PM Program; PM Procedures. Service Documentation; Corrective Maintenance Documentation, Parts Traceability OEM Alerts & Recalls, How to manage, Working with OEMs Annual Requirements – Compliance, MEMP, Policies and Procedures, Annual Assessment Accreditation and Regulatory Survey Success, Pre-Survey Preparation, Surveyor Focus Areas, What to Do and Not to Do During Survey, Post Survey



Injector Support—Stellant and Solaris Error Troubleshooting

Presented by: **Ryan Clarke, Founder Injector Support and Service**

Injector Type: Medrad® Stellant, Medrad® Solaris® EP injectors. The purpose of this course is to train in-house staff to provide 1st response troubleshooting to better identify the necessary service level required. Quickly determining the need for an on-site response vs loaner with depot repair vs parts order will save money and significantly reduce equipment downtime and as a natural byproduct increase patient centered excellence. This course is designed to provide level 1 technical troubleshooting information. The Instructor will cover most frequent errors experienced and best troubleshooting methods to identify most likely failure. After completing this 1.5 hour course, participants will have received the necessary information to perform basic troubleshooting, to determine the next possible level of service escalation, and to recognize failed parts and order as needed.



What's in the Pipeline Affecting HTM and You?

Presented by: **Danielle McGeary, Vice President of Healthcare Technology Management. AAMI**

Learn all that AAMI is doing to help bolster the HTM field, how this works affects you, and how you can help! AAMI is working hard to help combat the HTM personnel pipeline deficit, increase the real and perceived value of HTM to hospital leadership, advance the professionalism of the field, and expand knowledge of the HTM profession to relevant partners. The future of HTM is so bright, you are going to need sunglasses! Come hear about all AAMI has done for HTM over the past year!



Education Sessions - Saturday, December 7

Session 2 - 11:00am to 12:30pm



Data Analytics and Real-time Intelligence in HTM

Presented by: **Mke Kintner, Director of Service Operations Programs, Trimedx**

Data analytics and Real time Intelligence in HTM



DICOM Basics

Presented by: **Garrett Seeley, Associate Professor of Biomedical Equipment Technology at Texas State Technical College**

This overview is intended to cover the basics of DICOM setup and configurations used by an entry level imaging support technician. This is ideal for technicians looking to move into an imaging support role or for experienced technicians who are unfamiliar with DICOM networking support and applications. We will discuss the basics of a DICOM communication: the purpose, scope, setup, usage and conformance statements will be covered.



Surgical Services for the Biomed

Presented by: **Chyrrill Sandrini, Director of Surgical Services & BioMedical Solutions, MMS**

Topics include: Laparoscopic instrumentation – how it directly relates to the usage of surgical scopes in procedures and connection to ESU equipment, Rigid scopes and flexible scopes– care / maintenance and parts of the scope, Trouble shooting and equipment, Handling of the instrument. Attendees get to touch hold and see the scopes and interior exposed for reference. Handouts for attendees to learn the main scope components fill out and be interactive throughout the presentation. Regulatory compliance - industry best practice guidelines. Interaction with attendees and encourages participation through raffle prize tickets. Videos and short power point highlights and images use during the class. There is humor, competition and engagement of attendees – we want them to learn!



HTM and Cybersecurity

Presented by: **Mike Busdicker, System Director of Clinical Engineering Support Services at Intermountain Healthcare**

Course topics include: About Intermountain Healthcare, Why are we talking about Medical Device Cybersecurity (again)? , Role of HTM in Medical Device Cybersecurity, Medical Device Cybersecurity Program, Building a business plan to address the gaps, Governance and level of maturity, Maintaining security while building the program, Business Continuity and disaster recovery, Update of the Program at Intermountain Healthcare, Internal Collaboration and External Collaboration, Securing Devices on the Network, Emerging Risks, Challenges, US Gov. Cyber & Information Security Engineering References.



BMET Review -Part 2 (also sign up for part 1, session 1)

Presented by: **Louis Katchis, a founding member of the Florida Biomed Society who has been active in the Biomedical Engineering Field for over 45 years. He served on both of the AAMI- BMET and CCE certification boards and the TMC board.**

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Morning Reception - Saturday, December 7

President's Award: FBS's President may select an outstanding vendor OEM or ISO to receive the special recognition of the FBS Presidents Award. The FBS President's award was created to recognize a vendor, OEM or ISO that has distinguished themselves in the Florida Biomedical Community by providing outstanding service, supporting of Biomedical societies, educational outreach and humanitarian aid and support to communities in need. The FBS presidents award was established in 2013. Previous years winners are: [AIV](#) in 2013, [Southeastern Biomedical](#) in 2014, [USOC](#) in 2015, [CE-TECH](#) in 2016, [SonoDepot](#) in 2017, and [Trimedx](#) in 2018



Scholarships: Each year FBS awards up to three scholarships to deserving students. The **Bob White & Kevin Joyce** Memorial Scholarship Fund is dedicated to the memory of Bob White & Kevin Joyce, long time members of the FBS Board of Directors. The **Bruce McGuire** Memorial Scholarship Fund is dedicated to the memory of Bruce McGuire as a tribute to his passion for our profession. The **Bill Yandell** Memorial Scholarship Fund is dedicated to the memory of Bill Yandell, life time champion for the Biomedical Community and the Florida Biomedical Society. This year, FBS will also offer a scholarship in honor of **George Hyrshchuk** of AUE, a great supporter of FBS and the HTM community who passed away this year.



2018 Bill Yandell Scholarship winner with FBS President and Scholarship Sponsors

The purpose of these funds is to provide scholarship assistances to qualified applicants for continuing academic pursuit in the field of biomedical engineering. The beneficiaries of the program shall be people who are studying to start, or further a career in the biomedical profession. Preference will be given to FBS members, relatives of FBS members or U.S. Veterans. These scholarship funds have been established and will serve to assist our members as they continue to advance their professional education.

BMET of the Year: The society also recognizes nominees for BMET of the year from the individual chapters and selects one of them as the FBS BMET of the Year. The FBS BMET of the Year was established as a way to recognize those biomedical professionals that distinguish themselves during the course of each calendar year. Each chapter may submit a nominee as their BMET of the Year. The FBS BMET of the year is then selected from the nominees. The FBS BMET of the year is someone who embraces and works to achieve the goals and values of the FBS Society and works for the betterment of the Biomedical Profession. For information about Scholarship applications or BMET of the year nominations, please contact [your local society's](#) FBS Representative.



FBS BMET of the year 2018

Keynote - Saturday December 7, 7:45 am



Precarious Benchmarking

Presented by: **Larry Hertzler, Senior Vice President, Trimedx**

During this talk, we will explore benchmarking and how it can help, or potentially hurt your HTM program as well as your organization. The general concept of benchmarks in any industry is to improve, but is it truly working in the HTM space or is it simply window dressing?

The Google Dictionary definition of benchmark is to evaluate or check (something) by comparison with a standard, as in "we are benchmarking our performance against external criteria."

The Wikipedia definition notes "Benchmarking is the practice of comparing business processes and performance metrics to industry bests and best practices from other companies. Dimensions typically measured are quality, time and cost."

Both definitions reference comparison against a standard, but has a true standard ever been set? Do we need one? Do we even know what the "best" is? And are we sure that the comparisons are realistic, or are we being misled by spurious correlations?

Benchmarks have the promise of making you great. But the key is to understand the risk so you don't find yourself, your program, or your organization in a precarious position.

CBET Exam - Sunday December 8, 7:45 am

The Florida Biomedical Society is happy to announce that once again we have partnered with AAMI/ACI to offer the CBET exam at this year's FBS Symposium (December 5th – 8th 2019 at Disney's Coronado Springs Resort). The exam will be administered by ACI on Sunday, December 8th at 8:00 A.M.

In addition, FBS will show support for HTM professionals participating in the exam. FBS will reimburse \$100.00 of the exam fee for the first 10 applicants whose applications are approved by ACI when they take the CBET exam at the 2019 FBS Symposium. Applicants must have submitted their application to ACI by November 21st and be scheduled for the exam on December 8th, 2019. FBS will also reimburse \$100.00 for those who pass the test taken at the 2019 FBS Symposium for up to 15 new CBET's. Proof of passing the test will be required to receive \$100.00. But wait there's more. FBS is offering a CBET Review class at the symposium to help brush up on your skills prior to the exam. Class space is limited so register quickly. There is no charge for 2019 symposium educational sessions for FBS members and HTM professionals

FBS members can also get a 5% discount on [AAMI's online CBET study course](#) use code CBSCFL19

Find out more about ACI certification: <https://www.aami.org/professionaldevelopment/content.aspx?itemnumber=1134&navItemNumber=577>

[Download The CBET Exam application Form for the test offered at the 2019 FBS Symposium](#) deadline to submit to AAMI is November 21, 2019

See all the details at FBS's 2019 certification page: <https://fbsonline.net/page50.html>