2017
NORTHEASTERN HEALTHCARE TECHNOLOGY SYMPOSIUM
NEW ENGLAND SOCIETY OF CLINICAL ENGINEERING

OCTOBER 24th-26th

Mystic Marriot Hotel and Spa
625 North Road (Route 117)
Groton, Connecticut 06430
Dear Symposium speakers, attendees, vendors, and sponsors,

We extend our sincerest thanks to you for making this year’s Symposium possible. We appreciate your dedication to the Clinical Engineering community and your investment in its advancement.

We have worked tirelessly over the past year to coordinate knowledgeable speakers to present on topics chosen by you, our passionate members. We hope that the presentations engage you even further and renew your enthusiasm for the healthcare technology field. These presentations will provide you with the information necessary to make real changes that affect your personal career goals, your departments, and your healthcare organizations.

We also extend our gratitude to the members of the planning committee who spent many hours on conference calls, coordinating speakers, designing artwork, emailing vendors, and providing much needed support.

Thank you and enjoy the Symposium!

2017 Northeastern Healthcare Technology Symposium co-chairs
Samantha Herold, Secretary
Jillyan Morano
Frank Painter, Treasurer

Special thanks to our committee members and executive board
Vinnie DeFrancesco, President
Dave Florence
Dillon Florence
Barrett Franklin
Erin Koser
Scot Mackeil
Carolyn Mahoney
Danielle McGeary
Ashley O’Mara, Vice President
John Walls
Rachel Wilk

TUESDAY, OCTOBER 24th

Branford House Dinner
1084 Shennecossett Rd, Groton, CT 06340

Shuttle departs from Mystic Marriott at 5:45 PM

Cocktail Hour: 6:00 PM
Dinner: 7:00 PM

Keynote Speaker – Mark Bruley, Vice President, Accident and Forensic Investigation, ECRI Institute

“The Magic of Clinical Engineering”
Few professions provide the opportunity to have an immediate and demonstrable positive impact on society. Ours in Clinical Engineering does related to patient care and medical device safety. Mark Bruley will speak on this topic from his experience of more than four decades in the field.

WEDNESDAY, OCTOBER 25th

Vendor Wine & Cheese Event
Expo Hall

4:30 PM – 6:30 PM

Mingle with your favorite vendors and enjoy some delicious food and drink!

RAFFLE DRAWING!
(Additional rules apply)
<table>
<thead>
<tr>
<th>Time</th>
<th>CE/IT</th>
<th>HTM Program Management</th>
<th>Risk Management &amp; Compliance</th>
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<tr>
<td></td>
<td>Axel Wirth</td>
<td>Jillyan Moran and Samantha Herold</td>
<td>Shelly Crisler</td>
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**BMET**

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### Clinical Engineering

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| 8:30 AM - 9:30 AM | Real Time Location Systems  
Cheryl Shaw  
Salon A |
| 9:30 AM - 10:15 AM | Equipment Planning: An In-House Clinical Engineering Approach  
Bokang Rapoo  
Salon B |
| 10:30 AM - 11:30 AM | Risk Management & Compliance  
Salon C |
| 11:30 AM - 1:00 PM | Keynote Speaker – Jim Piepenbrink (Salons D, E, and F)  
Lunch in the exhibit area |
| 1:00 PM - 2:00 PM | Patient Monitoring Network Planning Part 1  
Robb Egan |
| 2:00 PM - 2:45 PM | Coffee break in the exhibit area                                        |
| 3:00 PM - 4:00 PM | Patient Monitoring Network Planning Part 2  
Robb Egan |
| 4:30 PM - 6:30 PM | Wine and Cheese in the exhibit area                                     |

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Salon C |
| 9:30 AM - 10:15 AM | Imaging–Radiology/PACS Basics  
RSTI |
| 10:30 AM - 11:30 AM | Lasers Part 1  
Kent Williams  
Conference Room 2 |
| 11:30 AM - 1:00 PM | Lasers Part 2  
Kent Williams |
| 1:00 PM - 2:00 PM | AEM Workshop Part 1  
Frank Painter  
Salon D |
| 2:00 PM - 2:45 PM | AEM Workshop Part 2  
Frank Painter |
| 3:00 PM - 4:00 PM | Imaging–Radiology/PACS Basics  
RSTI |
| 4:30 PM - 6:30 PM | Coffee break in the exhibit area |
| 6:30 PM - 8:30 PM | Wine and Cheese in the exhibit area |

### Keynote Speaker – Jim Piepenbrink (Salons D, E, and F)
## Thrusday, October 26th

### Clinical Engineering

**Salon A**
- **CE/IT**
  - **8:30 AM - 9:30 AM**
    - Embracing Telehealth
      - Cheng Zhang
  - **9:30 AM - 10:15 AM**
    - EMR Integration
      - Joe Ouellette
    - Justify a Clinical Engineering Program to C-Suite
      - Terri Crofts
    - Improving Patient Safety by Optimizing Medical Device Safety
      - Shelly Cristler
      - Katrina Jacobs
  - **10:30 AM - 11:30 AM**
    - Bridging the Gap between CE and IT
      - David Pilittiere
      - Daniel Tichon
  - **11:30 AM - 1:00 PM**
    - Clinical Engineering Departments Efforts on Retention
      - Michael Fraai
    - Wireless Technologies
      - Asad Khan
  - **1:00 PM - 2:00 PM**
    - Future of Clinical Engineering Round Table
      - Chris Gutmann, Michael Fraai, Ashley O’Mara
  - **2:00 PM - 2:45 PM**
    - Coffee break in the exhibit area
  - **3:00 PM - 4:00 PM**
    - Future of Clinical Engineering Round Table
      - Chris Gutmann, Michael Fraai, Ashley O’Mara

**Salon B**
- **Risk Management & Compliance**
  - **8:30 AM - 9:30 AM**
    - Keys to Success: Communication and Engagement
      - Barrett Franklin
  - **9:30 AM - 10:15 AM**
    - Electrical Safety Inspections – The End of an Era
      - Frank Painter
  - **3:00 PM - 4:00 PM**
    - Coffee break in the exhibit area

**Salon C**
- **Imaging**
  - **8:30 AM - 9:30 AM**
    - Imaging -- Radiology / Video Integration
      - Jamie Fair
  - **9:30 AM - 10:15 AM**
    - Imaging -- Radiology / Video Integration
      - Jamie Fair
  - **10:30 AM - 11:30 AM**
    - OR Video Tower / Video Integration
      - Jamie Fair
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    - OR Video Tower / Video Integration
      - Jamie Fair
  - **3:00 PM - 4:00 PM**
    - OR Video Tower / Video Integration
      - Jamie Fair

**Salon D**
- **HTM Program Management**
  - **8:30 AM - 9:30 AM**
    - Keys to Success: Communication and Engagement
      - Barrett Franklin
  - **9:30 AM - 10:15 AM**
    - Electrical Safety Inspections – The End of an Era
      - Frank Painter
  - **10:30 AM - 11:30 AM**
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      - Shelly Cristler
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    - Wireless Technologies
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**Salon C**
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  - **3:00 PM - 4:00 PM**
    - Wireless Technologies
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### BMET Review

**Conference Room 1**
- **General**
  - **8:30 AM - 9:30 AM**
    - Clinical Engineering's Role in Managing Flexible Endoscopes and Maintaining TJC Compliance
      - Brian McLaughlin
  - **9:30 AM - 10:15 AM**
    - Theory, Operation, and Troubleshooting of Pacemakers, Nerve Simulators, and Other Pulse Generators
      - Brian McLaughlin
  - **10:30 AM - 11:30 AM**
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    - Clinical Engineering’s Role in Managing Flexible Endoscopes and Maintaining TJC Compliance
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**Conference Room 2**
- **Imaging**
  - **8:30 AM - 9:30 AM**
    - Imaging -- Radiology / Video Integration
      - Jamie Fair
  - **9:30 AM - 10:15 AM**
    - Imaging -- Radiology / Video Integration
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  - **3:00 PM - 4:00 PM**
    - OR Video Tower / Video Integration
      - Jamie Fair

**Conference Room 3**
- **General**
  - **8:30 AM - 9:30 AM**
    - Clinical Engineering’s Role in Managing Flexible Endoscopes and Maintaining TJC Compliance
      - Brian McLaughlin
  - **9:30 AM - 10:15 AM**
    - Theory, Operation, and Troubleshooting of Pacemakers, Nerve Simulators, and Other Pulse Generators
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  - **3:00 PM - 4:00 PM**
    - Clinical Engineering’s Role in Managing Flexible Endoscopes and Maintaining TJC Compliance
      - Brian McLaughlin
and benchmarks.

A discussion of appropriate metrics and LifeSpan, a review of how to manage vendor activities and expenses.


The purpose of this session is to provide attendees with a comprehensive strategy for how to effectively manage medical equipment recalls within healthcare organizations.

Managing Medical Equipment Recalls, Shelly Crisler, Biomedical Engineer, VA Center engineering and Occupational Safety and Health (CEOSH), The purpose of this session is to provide attendees with a comprehensive strategy for how to effectively manage medical equipment recalls within healthcare organizations.

Cybersecurity Workshop, Stephen Grimes, cybersecurity consultant, Strategic Health Care Technology Consultants and Axel Wirth, Distinguished Technical Architect, Symantec, all day Tuesday, Securing medical devices against cyberattacks and safeguarding protected health information stored on devices is a growing concern and challenge for HTM/CE services. Prepare your team and your infrastructure to safely and securely operate in an increasingly hostile environment. Learn the skills to detect medical device cybersecurity risks and best practices for implementing an effective medical device cybersecurity strategy.

TUESDAY, OCTOBER 24th

ALL-DAY TRACK

Cybersecurity Workshop, Stephen Grimes, cybersecurity consultant, Strategic Health Care Technology Consultants and Axel Wirth, Distinguished Technical Architect, Symantec, all day Tuesday, Securing medical devices against cyberattacks and safeguarding protected health information stored on devices is a growing concern and challenge for HTM/CE services. Prepare your team and your infrastructure to safely and securely operate in an increasingly hostile environment. Learn the skills to detect medical device cybersecurity risks and best practices for implementing an effective medical device cybersecurity strategy.

Service Contract Management, Jillyan Morano, Director of Clinical Engineering, Care New England ABM, and Samantha Herold, Clinical Systems Engineer, Yale New Haven Hospital, An efficient contracts management process allows Clinical Engineering Departments to reduce operating costs, mitigate risks, and assure adherence to compliance requirement. In this session, we will present best practices in healthcare contracts management and help you identify ways to streamline the process in your organization.

Managing Medical Equipment Recalls, Shelly Crisler, Biomedical Engineer, VA Center engineering and Occupational Safety and Health (CEOSH), The purpose of this session is to provide attendees with a comprehensive strategy for how to effectively manage medical equipment recalls within healthcare organizations.


Wireless Technologies and the State of Telemetry, Rich Swenson, Manager of Technical Applications, Kevin Standen, Director of Customer Advocacy, Nihon Kohden, How do you know you are ready for 802.11?

COSR and other HTM performance metrics, Matthew Bareitch, Clinical Engineering Consultant, Colorado, AAMI continues to work on standardizing metrics for HTM performance monitoring. One of the key metrics is the Cost of Service Ratio (COSR). Metrics are useful for internal performance improvement and for benchmarking against other HTM programs. This presentation reviews the status of the AAMI effort and how performance metrics can help you run your HTM program.

FDA and the Battle for the Right to Repair, Stephen L. Grimes, President Strategic Healthcare Technology Associates and Robert Kerwin, General Counsel, IAMERS, Understanding the current battle for the right to repair and the FDA’s proposed legislation to limit who repairs a medical device.

Anesthesia Part 1, Biomed Basics, Scot Mackeil, CBET, MGH, An overview and interactive discussion of the medical devices an Anesthesia Biomed may be called on to support, Repair or PM in the O.R. along with practical "how to" hints, tips, and tricks: Vaporizers.


Anesthesia Part 2, The Drager Apollo, Scot Mackeil, CBET, MGH, A discussion and demonstration of doing the PM of the Drager Apollo Anesthesia machine in the OR environment. The presentation will be interactive and feature a hands on demonstration of the Test Equipment, and sub-assemblies in the Drager Apollo and practical "how to" hints, tips and tricks for doing the PM in the O.R.
ALL-DAY TRACK

AEM Workshop, Frank Painter, Clinical Engineering Program Director, UCONN, all day Wednesday. A review of the standards and current methodology used to implement an AEM program. This will include a how-to practice session to go through the process of evaluating several types of medical devices.

8:30-9:30 AM

Real Time Location Systems, Cheryl Shaw, MS, PMP, VA VISN 1 RTLS Program Manager, Lessons learned - presentation on a site specific installation, asset tracking/location accuracy, VA install of 3 applications under the RTLS umbrella.

Equipment Planning - An In-house Clinical Engineering Approach, Bokang Rapoo, Clinical Engineering Manager, Beth Israel Deaconess Medical Center, Boston, This presentation will go over some of the Best Practices & Lessons Learned as we over the years developed and matured an in-house program from what was originally a Consultant based equipment Planning Program.

10:30-11:30 AM

Keynote Address: Jim Piepenbrink, Executive Director, AAMI Foundation, Thoughts on the evolution of the profession and what the challenges and opportunities are to help us grow.

1:00-2:00 PM

Planning Patient Monitoring Part 1, Robb Egan, Spacelabs, Best practices for both managing existing monitoring networks and planning for the future of complete patient monitor connectivity. We will also explain common, and often misunderstood, hospital infrastructure terms and devices, including enterprise database servers, VLANs, VMware, Citrix servers, etc.

The Clinical Engineer and Patient Safety: Looking Beyond Device Design, Mark Bruley, Vice President, Accident and Forensic Investigation, ECRI Institute, Addressing the broadening role of the clinical engineer in setting public health policy on the development and safe use of medical technology. An overview of the medical device accident investigation process related to determining which medical errors can be prevented by the application of engineering controls.

Ventilation Basics, Anthony Achey, Technical Products Manager, Ventilation, Draeger, Ventilation Basics from the Biomed Perspective; common problems, alarms, and resolutions.

Lasers, Kent Williams, President, K R Williams Group, LLC, General first look of various lasers, to include alignment and power overview; measuring laser output with a laser power meter.

3:00-4:00 PM

Planning Patient Monitoring Part 2, Robb Egan, Spacelabs, Best practices for both managing existing monitoring networks and planning for the future of complete patient monitor connectivity. We will also explain common, and often misunderstood, hospital infrastructure terms and devices, including enterprise database servers, VLANs, VMware, Citrix servers, etc.

Alarms Management, Jim Piepenbrink, Executive Director, AAMI Foundation, Jim will review the methodology and findings of the award-winning alarms management program at Boston Medical Center. Also will discuss what the AAMI Foundation is currently working on as part of the National Coalition for Alarm Management Safety and what the impact is for organizations.

Cleaning & Disinfecting Medical Equipment, Tobey Clark, University of Vermont, Cleaning and disinfecting medical equipment requires a balance between insuring patient safety from infection, reducing damage to medical equipment, and supporting staff safety and work efficiencies. Case studies and best practices will be presented in the session with adequate time for Q&A and discussion.

Lasers, Kent Williams, President, K R Williams Group, LLC, General first look of various lasers, to include alignment and power overview; measuring laser output with a laser power meter.
Embracing Telehealth, Cheng Zhang, Telehealth Program Manager, Spaulding Rehabilitation Network. This presentation will explore some of the fundamental drivers behind virtual health initiatives across the country. It will touch on key elements of developing and operating a Telehealth program such as clinical utilization, technology infrastructure, workforce development, reimbursement, regulatory considerations, and marketing.

Keys to Success: Communication and Engagement, Barrett Franklin, MS CCE Deputy Network Director, VA New England Healthcare System. The presenter will discuss two key aspects to running a successful clinical engineering program: communication and employee engagement. Key highlights will be centered around communicating with senior leadership and ways to further engage one’s staff.

Electrical Safety-The End of an Era, Frank Painter, Clinical Engineering Program Director, UCONN. Recent changes in NFPA 99 have now made scheduled electrical safety inspections a thing of the past. Learn how CMS and TJC are now endorsing a policy of no more electrical safety inspections.

OR Video Tower Integration, Jamie Fair, Account Executive, Stryker Communications & Matt Roland, Account Executive, Stryker Endoscopy. Integrated OR’s - Benefits, trends, service, and troubleshooting. Advanced imaging and how the video tower industry and technology is changing.

EMR Integration, Joe Ouellette, MSE, MSHI, Clinical Systems Engineer, Yale New Haven Hospital. Medical device integration and its role in merging Clinical Engineering with Information Technologies.

Justifying a Clinical Engineering Program to the C-Suite, Terri Crofts, Regional Director of Operations, Crothall. The value proposition- having clear visibility and understanding of ongoing operating expenses and future capital investments, having a team who has the breadth and depth of knowledge and resources to always be able to offer support and advice, anticipating issues, increasing machine uptime and extending the life of the devices, all underpinned by robust and accessible data analysis, make a clinical engineering program valuable to administrations.

Improving Patient Safety by Optimizing Medical Device Safety, Shelly Crisler and Katrina Jacobs, VA CEOSH & VA NCPS. The purpose of this session is to inform attendees of the patient safety improvement efforts to close the loop on medical device recalls and conduct thorough medical device incident investigations.

OR Video Tower Integration, Jamie Fair, Account Executive, Stryker Communications & Matt Roland, Account Executive, Stryker Endoscopy. Integrated OR’s - Benefits, trends, service, and troubleshooting. Advanced imaging and how the video tower industry and technology is changing.

Bridging the Gap between CE and IT, Daniel Tichon and David Pilittere, Managers of Clinical Engineering, Yale New Haven Health. A presentation of an approach to enable clinical engineering to collaborate with IT.

Clinical Engineering Staff Retention, Michael Fraai, Director of Clinical Engineering, Brigham and Women’s Hospital. What you can do to keep CE staff on the team.

Wireless Technologies, Asad Khan, Clinical Engineering Director, Information System Securities, Aramark. A discussion of wireless technology in a healthcare organization. The presentation will also include examples of issues experienced with hospital wireless systems.

PACS / DICOM, Karen Maynard, Imaging Technical Analyst and Jonathan Siriano, Clinical Systems Engineer, Yale New Haven Hospital. Introduction to PACS, DICOM, and HL7 and PACS/DICOM Modality configuration and troubleshooting.


The Future of Clinical Engineering, Michael Fraai, Brigham and Women’s Hospital, Christopher Gutmann, Yale New Haven Health, Ashley O’Mara, Chief Clinical Engineer, VA New England Healthcare System. Round Table Discussion.

PACS / DICOM, Karen Maynard, Imaging Technical Analyst and Jonathan Siriano, Clinical Systems Engineer, Yale New Haven Hospital. This session will provide the knowledge needed to plan for various PACS, DICOM, and medical device integrations as well as how to troubleshoot those integrations when issues arise.

Wireless Technologies, Asad Khan, Clinical Engineering Director, Information System Securities, Aramark. A discussion of wireless technology in a healthcare organization. The presentation will also include examples of issues experienced with hospital wireless systems.