

The New England Healthcare Engineers' Society Presents

Autumn in the Mountains



NEHES 2010 Fall Conference

October 3-6, 2010

Omni Mount Washington Resort

Bretton Woods, NH



NEW HAMPSHIRE
SOCIETY OF
HEALTHCARE
ENGINEERS
PLANNING - EDUCATION - SUPPORT



Our Mission

The New England Healthcare Engineers' Society is a professional organization whose traditions and continued success are based upon the following goals:

- To promote better patient care by taking advantage of the latest developments in healthcare facility management, design, operation and maintenance techniques.
- To promote the mutual exchange of technical assistance, ideas and experiences among members and other healthcare engineering professionals.
- To promote the professional development of healthcare engineers through continuous education.

New Hampshire Society of Healthcare Engineers

The New Hampshire Society of Healthcare Engineers Fall Conference Planning committee invites you to attend the 2010 Fall Conference and Technical Exhibition at the Omni Mount Washington Resort, Bretton Woods, New Hampshire. We promise a superlative program in an extraordinary facility. Come join us for the educational and social event of the year!

General Information

CEU Credit

CEU's Certificates of attendance with Continuing Education Units (CEU's), will be awarded for educational programming at the close of the conference.

Conference Attire

Dress for the conference is casual. Meeting rooms can vary in temperature, so dress accordingly. Men are required to wear jackets in the Main Dining Room and Sun Dining Room after 6:00pm.

NEHES Chapters:

Maine Healthcare Engineers Society
New Hampshire Society of Healthcare Engineers
Vermont Healthcare Engineering Society
Middlemac Hospital Facility Managers Group
Boston Hospital Plant Engineers Club
Western Mass Society of Healthcare Engineers
South Shore Healthcare Engineers Society
Connecticut Healthcare Engineers Society
Rhode Island Healthcare Engineers Society

Hotel Registration

Conference attendees are responsible for making their own hotel reservations. The hotel will confirm directly to the registrants. To receive the special conference rate, attendees must use the enclosed registration form (or use the registration form provided on the NEHES web site: www.nehes.org) and fax the completed form to the hotel (fax: 603-278-8838). For further information regarding registration, contact Martha Fetko at 603-278-8877.

A \$100 rebate off the regularly room rate of \$249 per night will be given to any Active or Honorary member in good standing (Dues must be paid!). Associate or Supporting members are not eligible. Rebates will be applied at check-out.

Upon receiving hotel confirmation, attendees must make changes in hotel accommodations directly with the hotel. **Reservations must be received by September 3, 2010.** Reservations received after September 3, 2010 will be accepted on a space and rate availability basis only.

Cancellation Policies

At the Omni Mount Washington Resort, a full refund, minus a \$25.00 processing fee of the guest deposit will be made if notification of cancellation is received at least 30-days prior to arrival. A 50% refund of the guest deposit will be made if notification of cancellation is received 7-30 days prior to arrival. Any change within 0-6 days of arrival to your original reservation, including no-shows, cancellations, or changes in arrival or departure dates, may result in a

charged room rate in full for all nights of the original reservation. (Please add an 9% state room and meals tax to the cancellation fee)

Travel Directions

From Boston, MA and Manchester, NH

Take I-93 North through Franconia Notch to Exit 35, Route 3N.

Take Route 3N to Twin Mountain, NH.

Follow Route 302E to Bretton Woods, NH.

From NH Seacoast/Portsmouth, NH

From I-95 or Route 101 or Route 4: exit onto Route 16N/Spaulding Turnpike to North Conway/Glen, NH.

Follow Route 302W to Bretton Woods, NH.

From Portland, ME

Take Route 302W to Bretton Woods, NH.

From New York, NY and Hartford, CT

Take I-95 North to I-91 North.

Take I-91 North to I-93 South, Exit 40.

Follow Route 302E to Bretton Woods, NH.

Estimated Driving Times

Boston, MA 2 1/2 hours, 165 miles

Portland, ME 2 hours, 90 miles

Hartford, CT 4 1/2 hours, 220 miles

Schedule (Education Schedule Subject to Change)

Sunday, October 3, 2010

9:30 – 4:30 NEHES 2010 Golf Outing

Daily – Bretton Woods Canopy Tour

5:00 – 7:00 Conference Registration/
Welcome Reception

7:00 – Dinner on your own

Dinner Options:

You will need to make your own dinner reservations for Sunday and Monday night. Contact Activities Concierge Desk 603-278-8989 to make reservations

The Dining Room

Dress Code: Jackets are required for men; women and children should dress appropriately. Jeans and tennis shoes are not allowed during dinner hours.

The Bretton Arms Dining Room
Casual Dress

Stickney's Restaurant
Casual Dress

Other dinner options:

The Rosebrook Bar
Fabyan's Station
reservations not required

Monday, October 4, 2010

Registration All Day – Hotel Lobby

7:00 – 8:00 Board Meeting

8:00 – 9:00 Welcome/ Keynote Speaker
Steve Nelson

9:00 – 9:30 Break

9:30 – 10:15 Session 1A
Data and Evidence Driven Risk Assessment and
Performance Improvement

9:30 – 10:15 Session 1B
Best Practices in Healthcare Construction
Estimating

10:30 – 11:15 Session 2A
Ventilation Management for Improved
Infection Control

10:30 – 11:15 Session 2B
BIM Contractual mechanisms and
responsibilities for each.

11:30 – 12:00 ASHE Update

12:00 – 1:00 Lunch

1:00 – 4:00 Technology Show

4:00 – 5:00 Annual Meeting

5:30 – 6:30 Social Reception

7:00 – Dinner on your own

Tuesday, October 5, 2010

7:00 – 8:00 Past President's Breakfast

8:00 – 9:00 Session 3, NFPA 99 Update

9:00 – 9:30 Break

9:30 – 10:15 Session 4A
Guide to Inspecting and Maintaining
Various Roofing Systems

9:30 – 10:15 Session 4B
How CAFM and IWMS can help the
Healthcare Facility Manager

10:30 – 11:15 Session 5A
Creating a virtual Surgical Department:
Utilizing Process Simulation to determine
optimal space needs

10:30 – 11:15 Session 5B
Perspectives on Growing a Healthcare
Institution: Diverse trends in Facility Planning
and Development

11:30 – 1:00 Lunch

1:00 – 1:45 Session 6
What about day 2? Transitioning
from Construction to Operations and
Regulatory Compliance

1:45 – 2:30 Session 7A
A practical Approach to Building
Envelope Management

1:45 – 2:30 Session 7B
NFPA Update for the 2012 Edition of NFPA
101® - Changes, Revisions, Concepts

2:30 – 3:00 Break

3:00 – 3:45 Session 8A
Efficiently Manage Risks and Compliance at
(Many) Offsite Facilities as part of your Safety
Management Program

3:00 – 3:45 Session 8B
HITF Activities-Current Issues

4:00 – 4:45 Session 9
What Every healthcare Engineer should know
about Automatic Transfer Switches

5:30 – 6:30 Social Reception

6:30 – 9:00 Annual Dinner/Entertainment

Wednesday, October 6, 2010

8:00 – 9:00 Session 10
The Authority Having Jurisdiction and
How to Handle Unreasonable Findings

9:00 – 9:15 Break

9:15 – 10:00 Session 11
Utility System Condition Assessment
and Capital Planning

10:15 – 11:00 Session 12
How Architects/Engineers and Contractors
Can Support Hospitals in Joint Commission
Compliance

11:15 – 12:00 Session 13
To be determined



Sunday, October 3

NEHES 2010 Golf Outing

9:30 am – 4:30 pm

The Omni Mount Washington Course
A Donald Ross Masterpiece
Route 302, Bretton Woods, New Hampshire

- Registration begins at 9:30 am
- Shotgun Start at 10:00 am
- Scramble Format
- Proper golf attire must be worn
- Followed by Golf Reception & Awards at Clubhouse

Bretton Woods Canopy Tour

Tour takes 3.5 hrs., includes 2 guides, 8 participants,
10 ziplines, 2 suspension bridges, and 3 rappels.

- Time slots available for Sunday tour: 9:00 am, 9:30 am, 10:00 am, 1:00 pm, 1:30 pm, 2:00 pm
- All participants must be min. 12 years old; min. 4 ft. 6 inches tall; min. 90 lbs.; maximum 250 lbs.
- Dress appropriately as tours go rain or shine (see website www.brettonwoods.com for video/details)
- Space is limited and it's peak foliage season so book early - reservations on first come, first serve basis
- Confirmation sent upon payment/reservation for this event, with your assigned time slot
- Be on time - late arrivals not accommodated. Take shuttle from hotel 15 minutes prior to tour time
- Cancellation by participant within 48 hours of scheduled tour result in forfeiture of full reservation amount

To register, fill out the form in this brochure and mail it back to the address indicated.

Day 1

Data and Evidence Driven Risk Assessment and Performance Improvement

Steven Spaanbroek, MBA, SASHE, CHC, CHFM, Managing Director

MSL Healthcare Consulting

- How to effectively bring statistical techniques into performance measurement and improvement
- A Myriad of easy to use tools can dramatically change the way decisions are made within organizations

Best Practices in Healthcare Construction Estimating

Andrew Martin, Vice President

Eve Norris, Senior Project Manager

Pizzagalli Construction Co. Inc., So. Burlington, VT

- The importance of conceptual estimating and evaluating project costs by program and service line to assist hospitals in obtaining regulatory approvals and funding
- Understanding the benefit of value engineering processes
- Estimating various construction methodologies from an ROI perspective (e.g. Integrated Project Delivery, LEED Accreditation, Infrastructure Upgrades)

Ventilation Management for Improved Infection Control

Andrew Streifel, MPH

Hospital Environment Specialist Dept. of Environmental Health and safety

University of Minnesota Medical Center

- Discuss infection clusters and how the lack of appropriate infection control leads to patient disease
- Identify pertinent ASHRAE standards and their application to infection control

Bim-Contractual Mechanisms and legal responsibilities

Ronald D. Ciotti, Esq.

HINCKLEY, ALLEN & SNYDER LLP

Construction and Public Contracts Law Group

- Educate attendees on BIM contractual mechanisms and the legal responsibilities associated with each.
- Educate attendees on the breakdown of responsibilities in the use of BIM.
- Assist attendees in recognizing the key difference between BIM forms.

ASHE Update

Skip Smith, ASHE President-Elect.

Meet the ASHE President-elect and learn about his goals for his Presidency in 2011!

Day 2

NFPA 99 Update and other Regulatory Updates

Dave Dagenais, SASHE, CHFM, CHSP, Director of Plant Operations and Security

Wentworth-Douglas Hospital, Dover, New Hampshire

- Review existing NFPA 99 Codes and Standards
- Identify Proposed changes to the codes and standards and how they affect the Healthcare industry.
- Describe the Steps in the code change process and how individuals can participate.

A Guide to inspecting and Maintaining Roofing Systems

Edward Stewart, RRC, Gale Assoc. Inc.

- Understanding fundamentals of developing a roof maintenance program
- Understanding various generic types of roof systems (pros/cons)
- Conducting emergency repairs
- Protecting your asset (warranty)

How CAFM (Computer Aided Facility Management) and IWMS (Integrated Workplace management Systems) can help you.

Rich Peacock, Managing Director

FM Innovations, Hartford, CT.

- Maximize your Medicare/Medicaid reimbursements through accurate square footage reporting
- Provide on-demand access to critical life safety information during TJC surveys
- Perform planned maintenance and track required testing schedules for life safety and hospital equipment
- Efficiently track all aspects of your campus and satellite facilities including medical office buildings and dialysis and acute care centers

Creating a Virtual Surgical Department: Utilizing Process Simulation to determine optimal space needs of a Surgical Department from design through construction

Stephen Clayman, AIA, ACHA, Vice President

Lavallee Brensinger Architects, Manchester, NH

Kathy Cowette, Director of Planning, St Joseph Hospital, Nashua, NH

- Understand the basics of process simulation and its application to healthcare design and planning.
- Learn how to assess program needs based upon existing data and usage patterns, rather than by intuition and guesswork. Methods of data gathering and analysis will be reviewed.
- Testing utilization of a surgical department during multiple scenarios including construction phasing.

Perspectives on Growing a Healthcare Institution: Diverse trends in Facility Planning and Development

Robert J. Smedberg PE, VHB Inc. Providence, RI

- How an organization's structure (i.e. system or independent) impacts decision-making concerning capital improvements
- How to facilitate the input of internal stakeholders and end-users throughout the planning-design-construction cycle
- Identification of typical design/construction challenges, and solutions to address them.

What About Day 2? Transitioning from Construction to Operations

David Stymiest, P.E., FASHE, CHFM, Senior Consultant – Compliance and Facilities Management, Smith Seckman Reid, Inc., Nashville, TN

- This paper is intended to bridge the gap between construction and operations, providing an overview of the facility operations, management, and environment of care (EC) compliance issues and needs for Day 2 – the day after a facility opens.

A Practical Approach to Building Envelope Management

**Russell M. Sanders, AIA, VP/ Director of Technical Services
Hoffmann Architects, Inc.**

**Chris Burney, CHFM, CPE, Administrative Director of Facilities Management
Bridgeport Hospital, Bridgeport, CT.**

- Identify the extent, severity, and types of building envelope problems at your health care facility.
- Formulate appropriate corrective approaches.
- Maintain building envelope components to maximize serviceability and extend component lifespan.

NFPA Update for the 2012 Edition of NFPA 101® - Changes, Revisions, Concepts

**Robert Solomon, PE, Building and Life Safety Code Dept. Manager
National Fire Protection Association, Quincy, MA**

- This session will discuss changes that have been proposed for the 2012 edition of NFPA 101 that may impact hospitals. NFPA Technical Committees met in the fall of 2009 to review proposed changes at the ROP (Report on Proposals) stage for the new edition. In October of 2010, the committees will be meeting to review and finalize their ROC (Report on Comments) actions leading up to a vote by the NFPA membership in June of 2011.
- Attendees will be made aware of efforts to update the NFPA Life Safety Code for the 2012 edition. A review of the schedule, substantive changes being considered and the possible impact of peripheral events including an NFPA sponsored Inspection, Testing and Maintenance Summit being held in May of 2010 and an NFPA sponsored Healthcare Summit being held in July of 2010 will be provided in order to provide users of the code with a preview of coming attractions.

What every healthcare Engineer should know about Automatic Transfer Switches

J. Richard Hanna, Application Engineer Eaton Corp.

- Provide an understanding of UL 1008 testing requirements as pertaining to any breaker, specific breaker and short time tests
- Transfer Switches with short time ratings in selectively coordinated systems

Efficiently Manage Risks and Compliance at (many) Offsite Facilities as part of your Safety Management Program.

**Sandra DeMars MS, CHSP, HEM, VP Healthcare Business Development,
EBI Consulting**

- Understand the Reasons/Benefits of incorporating off-sites into your EOC Safety Management processes
- Identify strategies do this efficiently at multiple (and growing number of) sites without adding FTE's
- How this approach will make meeting regulations and other requirements easier while reducing risks (Site specific Hazard Vulnerability assessments, etc)

HITF Activities-Current Issues

**Robert Solomon, PE, Building and Life Safety Code Dept. Manager
National Fire Protection Association, Quincy, MA**

- This session will discuss recent interpretations and actions that have been discussed by the Healthcare Interpretations Task Force-the HITF. Created in 1998, the HITF serves as a vehicle to reconcile competing or contradictory interpretations among and between the entities that are subject to the requirements of the code and the entities that enforce the code. The HITF typically holds two meetings per year to address such issues. HITF actions help resolve these issues.
- Attendees will be made aware of HITF positions that have been discussed in the last few years to address various issues that have caused concern in healthcare facilities. In some cases, HITF positions have resulted in changes to NFPA codes and standards, changes in agency policies or both. A review of the HITF website will also be discussed in order to ensure that NEHES members know how to gain access to the HITF information.

The Authority Having Jurisdiction and How to Handle Unreasonable Findings

Eugene A. Cable, P.E.

- Who is the AHJ and what authority do they really have
- How to recognize when an AHJ decision conflicts enough with engineering and economic principles to warrant an appeal or dispute.
- What are the available options to attempt correction?
- What would be a good step by step procedure for an appeal?

After dinner entertainment:

Comedian Paul D'Angelo

Plan to laugh until you cry with Comedian Paul D'Angelo immediately following the Annual dinner on Tuesday night. Paul's performance is brought to NEHES by William A. Berry and Son Inc. one of the oldest construction companies in the country. With a focus on healthcare, life sciences and education markets, Berry's clients span many of the nation's most respected institutions.

Day 3

Utility System Condition Assessment and Capital Planning

Kevin Lemon, P.Eng, Project Manager

Robert D. Smith, P.E. Vice President

RMF Engineering, Inc., Baltimore, MD

Learning Objectives:

- Organizing campus utility assessments
- Building a database for documentation
- Using the database to prioritize repairs and replacements, and plan capital expenditures

How Architects / Engineers and Contractors Can Support Hospitals in Joint Commission Compliance

Edmund L. Lydon,

Director of Support Services, Northeast Health System, Beverly, MA

- TJC standards that impact design
- Risk Assessments
- Infection Control
- Interim Life Safety Measurements
- Impact of a project on Utility Management Standard
- Project management
- Contractor Performance Accountability

Keynote Speaker: Steve Nelson

Steve Nelson's career as a Patriot is legendary and earned him induction into the Patriots Hall of Fame in 1993. He also had his No. 57 jersey retired, one of only seven Patriots to be given that honor. In addition, Steve was named to the 35th Anniversary team in 1994 and the Team of the Century in 2000.

Be sure to be with us as Steve talks about Teamwork and working relationships and how they are an important component of success in whatever we do.



Guest Program

While Society members attend educational sessions, spouses and guest are invited to enjoy the natural beauty and special activities of the Mount Washington Hotel & Resort area. **Guest that register for this program, will receive a \$50 Gift Certificate for the Omni Mount Washington Resort. (Can be used towards the SPA)**

Monday features time at the SPA, followed by lunch. Guests will finish the day with Wine Tasting at the Omni Mount Washington Resort.

On Tuesday, participants will have the opportunity to shop in North Conway at the Settlers Green Factory Outlet Village followed by lunch. Guests will return to the hotel and will have the opportunity to attend a Chef Demonstration

Monday, October 4th

10:00 - 12:00 pm
SPA (on your own)

12:00 pm - 1:00 pm
Lunch

1:00 pm - 3:30 pm
SPA (on your own)

3:30 pm - 4:30 pm
Wine Tasting

5:30 pm - 6:30 pm
Social Reception

7:00 pm
Dinner on your own

Tuesday, October 5th

9:30 am
Guest will leave the hotel aboard a charter bus

10:00 am - 12:00 pm
Shopping in North Conway at the Settlers' Green Outlet

12:30 pm - 1:30 pm
Lunch in North Conway

1:30 pm
Guests reboard charter bus for return to the hotel

3:30 pm - 4:30 pm
Chef Demonstration

5:30 pm - 6:30 pm
Social Reception

6:30 pm - 9:00 pm
Annual Dinner/Entertainment



The Spa

The Spa will open your mind, rejuvenate your body and soothe your spirit. Inspired by the plethora of White Mountain flora and fauna, they created a 25,000 square foot spa as extraordinary as its surroundings. Treatment rooms feature endless views of the Presidential Range. Custom-made Mountain Mist products are used in their Signature treatments.

*For reservations call: 877-278-2920
Make your reservations early*

ROOM RESERVATION FORM

NEW ENGLAND HEALTHCARE ENGINEERS SOCIETY

OCTOBER 3 – 6, 2010

The staff and management of Omni Mount Washington Resort look forward to having you with us. To be assured of accommodations, please complete this form and return it to our Reservations Department by September 3, 2010. Rooms will be assigned on a first-come, first-served basis. Your special group rate will not be available after this cut-off date.

A confirmation letter will be mailed to you approximately (10) days after the reservation has been processed. Individual guest reservations require a deposit of a one-night stay. The deposit will be applied to the last night of the schedule stay.

At the Omni Mount Washington Resort, a full refund, minus a \$25.00 processing fee of the guest deposit will be made if notification of cancellation is received at least 30-days prior to arrival. A 50% refund of the guest deposit will be made if notification of cancellation is received 7-30 days prior to arrival. Any change within 0-6 days of arrival to your original reservation, including no-shows, cancellations, or changes in arrival or departure dates, may result in a charged room rate in full for all nights of the original reservation. (Please add an 9% state room and meals tax to the cancellation fee)

Check-in time is after 3:00 pm. Guests arriving before check-in time will be accommodated as rooms become available. Check out time is before 11:00 am. We require that guests attending a function on their departure day check out prior to 11:00 am. Arrangements can be made for luggage storage through Guest Services. Jackets are required of gentlemen in the Dining Room and Sun Dining Room at the Omni Mount Washington Resort after 6:00 pm.

Name(s) _____ Home Phone _____
Address _____ Business Phone _____
_____ Email Address _____
Number of Guests _____ Arrival Date _____ Departure Date _____
MasterCard, Discover, Visa or Amex# _____ Expiration Date _____
Card Holder Name _____ Signature _____ Date _____

**REMINDER: October 3-6 is peak foliage weekend for New Hampshire.
PLEASE BE SURE TO MAKE YOUR RESERVATIONS AS SOON AS POSSIBLE .**

Please reserve the following accommodations:
Omni Mount Washington Resort
Rates Listed are per room per night:
EP: European Plan includes accommodations only
Single/Double \$249.00

The above rates are subject to the 9% New Hampshire Rooms and Meals Tax.

Please return the completed form with deposit amount to:
Omni Mount Washington Resort
Attention: Group Reservations Department
Route 302, Bretton Woods, NH 03575
Group Reservations (800) 258-0330 ~ Fax (603) 278-8838
www.brettonwoods.com

CONFERENCE REGISTRATION FORMS

2010 NEHES Fall Conference Registration Form

Name: _____ Title: _____

Affiliation: _____ Address: _____

City/Town: _____ State: _____ Zip Code: _____

Fee: **\$225.00 Member \$250.00 Non-member** Email: _____

Check No. _____ **Make Payable to NHSHE**

Credit Card: _____ AMEX _____ Mastercard _____ Visa Card No: _____ Exp. Date: _____

Signature: _____

Mail to:
New England Healthcare
Engineers Society, Inc.
c/o Phil Chaput
LRGHealthcare
80 Highland St.
Laconia, NH 03246

Non-member Fee includes 1 year NEHES membership, if approved, no refunds

Please check any of the memberships that you belong to: _____ Chapter President _____ CHFM _____ NEHES Board _____ Supporting Member _____ Vendor

Unless you notify us, your name will be made available to the vendors attending the NEHES event.

2010 NEHES Fall Conference Guest Program

Guest: _____ Address: _____

City/Town: _____ State: _____ Zip Code: _____

Fee: **\$125.00 per person** Email: _____

Check No. _____ **Make Payable to NHSHE**

Credit Card: _____ AMEX _____ Mastercard _____ Visa Card No: _____ Exp. Date: _____

Signature: _____

Mail to:
New England Healthcare
Engineers Society, Inc.
c/o Phil Chaput
LRGHealthcare
80 Highland St.
Laconia, NH 03246

2010 NEHES Fall Conference - Sunday Activity: Golf Outing or Canopy Tour

Name: _____ Title: _____

Affiliation: _____ Address: _____

City/Town: _____ State: _____ Zip Code: _____

Canopy Tour Fee: \$99 per person Golf Fee: \$125 per person Email: _____

Number of participants for the Canopy Tour: _____

Circle Time Slot you are interested in for the Canopy Tour: 9:00 am 9:30 am 10:00 am 1:00 pm 1:30 pm 2:00 pm

Others in 4-Some for Golf: If yes, names: _____

Check No. _____ **Make Payable to NHSHE**

Credit Card: _____ AMEX _____ Mastercard _____ Visa Card No: _____ Exp. Date: _____

Signature: _____

Mail to:
New England Healthcare
Engineers' Society, Inc.
c/o Tom Humphrey
Monadnock Community Hospital
452 Old Street Road
Peterborough, NH 03458