



**nchea**  
 nc healthcare engineers association

**65th ANNUAL  
 CONFERENCE & EXHIBITION**

the power behind healthcare  
 education designed for healthcare engineers and healthcare facility support teams

**AUGUST 22-25, 2017**  
 Omni Grove Park Inn Resort  
 Asheville, North Carolina



**KEYNOTE**

Lt. Col Rob "Waldo" Waldman





## William Baird SrHE

Appalachian Regional Healthcare System  
2017 NCHEA PRESIDENT



Dear Colleagues,

It is my pleasure to invite you to the 65th Annual Conference and Exhibition of the North Carolina Healthcare Engineers Association. We are back at the Grove Park Inn, in beautiful Asheville, North Carolina. I can't think of a better place for you to Gain the Edge.

Deon Lewis, our Program Chair has put together a wonderful program that will start with our Keynote Speaker – LT. COL. Rob “Waldo” Waldman. You will not want to miss Waldo’s high energy, “One Team, One Mission” message, philosophy of trusting your Wingmen and becoming Mission Ready.

Terry Fair, our Vendor Chair has put together a great Vendor Show. Over the course of the week you will have many opportunities to interact with our associate members, to see the latest products and services offered.

This year’s community event is “Coats for Kids” and benefits the children of the Asheville area. I know you will dig deep for this worthy cause.

We have another great guest event planned and much more. We are going back in time for our Banquet entertainment with the band “The Business” whether you want to dance or just set back and enjoy the great music you will not want to miss it.

Bill Chapman and his team have organized another great Golf Tournament at the Grove Park Inn Golf course for Tuesday August 22 at 8:00 am. As for the non-golfers we will be shooting sporting clays on the Biltmore grounds. Space is limited for both activities so sign up quickly.

I would like to thank our Sponsors and Associate Members for their support. Because of their support we have high quality educational programs, Keynote Speakers and a wonderful location to hold our conference.

Many Thanks to the Planning Committee for all the hard work and long hours to put the Conference together.

I’m looking forward to seeing everyone in August. Safe travels.

Sincerely,

*William*





# “ONE TEAM ONE MISSION”

## AGENDA at a GLANCE

MONDAY August 21, 2017

8:30-11:00 ..... Planning Committee Pre-Conference

11:00-12:00 ..... Finance Committee Meeting &  
Certification Committee Meeting

1:00-5:00 ..... NCHEA Board Meeting

TUESDAY August 22, 2017

7:00-8:00 ..... Golf Registration

8:00-12:30 ..... Golf (Shotgun Start)

10:00-12:00 ..... Community Event

2:00-5:00 ..... ATTENDEE REGISTRATION

Must have name badge/tickets to attend OPENING RECEPTION

3:00-4:00 ..... Quick Hits #1 OSHA Final Ruling and a Guide to Exterior Building  
Maintenance | Travis Nelson John McGrath Michael MacDonagh

4:00-5:00 ..... Quick Hits #2 How to Incorporate Human Behavior into Facility  
Energy Management to REalize and Maintain Energy Savings | Kady Cowan

WEDNESDAY August 23, 2017

7:00-8:00 ..... Registration & Breakfast

8:00 ..... Welcome – Opening Ceremony  
Keynote Speaker – Lt. Col Rob Waldo” Waldman  
“One Team, One Mission”

10:15-11:15 ..... DNV UPDATE

11:30-2:00 ..... Vendor Show – Lunch in Vendor Area

2:00-3:00 ..... What the “C” Suite is looking for when it comes to Data and  
KPI’s | Matthew Rahe

3:15-4:15 ..... Panel, TJC Follow up. Update from (7) NC TJC Inspections  
Terry Fair Gary Milewski Bret Martin

4:15-5:15 ..... Ignorance is not Bliss: How roofing decisions are costing you-  
money, quality and patient satisfaction Mike Laiever

THURSDAY August 24, 2017

7:00-8:00 ..... Registration & Breakfast

8:00-9:00 ..... NFPA 99 - 2012 Changes | Ken Gregory

9:00-10:00 ..... Preventing and Responding to Patient Elopement | Thomas  
Smith

10:15-11:15 ..... “How I learned to stop Worrying and Love High Performance  
Floorcovering” | Ron Gullege Deborah SMith

11:30-2:00 ..... Vendor Show – Lunch in Vendor Area

2:00-3:00 ..... Design-Assist 202: Mission Health’s Current Best Practices |  
Scott Johnson Toby Kay Steve Russell

3:15-4:15 ..... Generator Testing, How to Stay Compliant with New  
Standards | Dan Chisholm

4:15-5:00 ..... District Meetings

7:00-9:30 ..... Annual Reception and Banquet Gala

FRIDAY August 25, 2017

7:00-9:15 ..... NCHEA Business Meeting & Breakfast

9:15-10:15 ..... What is HRO and What are the 5 Tenets of HRO Culture

10:30-12:00 ..... DHSR Update – DHSR Staff

12:00-12:30 ..... Wrap-up – William Baird



## Lt. Col Rob “Waldo” Waldman

In today’s highly competitive and constantly changing business world, Winners Never Fly Solo®. Winning organizations promote cultures of trust, commitment, and mutual support.

Waldo’s Mission is to help you and your team:

WINGMAN COMMIT TO EXCELLENCE WINGMAN

Excellence leads to growth. It involves building a culture based on the core values of integrity, trust, and courage.

WINGMAN PREPARE FOR CHANGE WINGMAN

Preparation trumps motivation. In order to execute and win, you must plan, train, and relentlessly focus on innovation.

WINGMAN ENGAGE TO WIN WINGMAN

Engagement takes teamwork, mutual support, open communication, and collaborating as a unified team



### KEYNOTE SPONSORS



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nc healthcare engineers association

KADY COWAN

## How to Incorporate Human Behavior into Facility Energy Management to Realize and Maintain Energy Savings

Achieving persistent and long-term energy savings by optimizing facility energy performance makes good economic sense. Energy management professionals seeking a strategic approach to compliment and compound the savings from capital upgrades by integrating human behavior into facility energy management system will value the practical guidance from this presentation. Attendees will learn how to link energy savings directly to specific behavior change initiatives applicable to hospitals of various sizes and corporate cultures. Conservatively, no cost behavioral interventions in energy management can accomplish between 3-10% of total energy reduction. No cost behavioral interventions are also integral to sustaining energy savings across systems which can slip up to 20% after 5 years. Facility managers and building operators who are comfortable with adopting and suggesting energy saving solutions result in large scale energy projects moving forward more smoothly, natural resources conservation and improved staff and patient comfort. Real world examples from over a decade of experience integrating behavior based solutions into health care energy management programs will be shared in this session.

Kady Cowan is an Environmental Scientist and Sustainability Practitioner with a focus on workplace based conservation culture. Her practice of system science includes creating the conditions for staff engagement, positive disruption and simple solutions to emerge and persist for the long-term. Kady's participatory and collaborative techniques result in solutions that protect the environment and human health as well as conserve natural and economic resources. She has worked in this field for 15 years in Canada and the US doing everything from strategic energy management, waste minimization, green building, sustainable food, switching to less toxic products and greening the supply chain. Kady is Acting Assistant Vice President, Sustainability at Carolinas Healthcare System in Charlotte, North Carolina one of the largest public, not-for-profit hospital systems in the U.S.



TRAVIS NELSON | JOHN MCGRATH | MICHAEL MACDONAGH

QUICK HITS

## OSHA Final Ruling and a Guide to Exterior Building Maintenance

Travis Nelson will simplify the most recent OSHA 1910 Subpart D-“Walking-Working Surfaces” final ruling and will explain the main take-a-ways from the in depth document. Taking effect January 1st of this year, this regulation has tiered compliance dates for: training workers on fall and equipment hazards, inspection/certification of permanent building anchorages, fall protection on fixed ladders, etc. John McGrath and Mike MacDonagh will then discuss how best to establish a plan of action to maintain and repair all facets of your building envelope.

Travis Nelson, PE serves as Vice President at Peak Fall Protection, a turnkey fall protection system provider. He has over 15 years of experience in the construction industry and has extensive knowledge of rooftop fall protection and suspended maintenance anchorage systems.

John D McGrath serves as Regional Sales Manager at Scottie's; an exterior building maintenance company specializing in Window Cleaning, Pressure Washing, Parking Deck Cleaning, Exterior Metal Maintenance, High Dusting, and Glass Restoration throughout the Carolinas and Southern Virginia.

Michael MacDonagh started working in the waterproofing and restoration industry while he was attending East Carolina University. Upon graduation, he began managing the operations department of EDS, a family owned and operated company, and obtained an unlimited general contractors license. Later, he transitioned into project development and is now the Vice President of EDS.



TERRY FAIR | GARY MILEWSKI | BRET MARTIN

TERRY FAIR | GARY MILEWSKI | BRET MARTIN

## PANEL DISCUSSION TJC Follow up Update from (7) NC TJC Inspections

An open-forum panel discussion on the regulatory compliant climate in healthcare. The panel will discuss top findings in 2017 to-date and provide insight into what to expect in 2018. With the most recent adoption of NFPA 101-2012 and NFPA 99-2012, there is a new focus during accreditation and validation surveys. In addition, significant survey clarifications were made by Joint Commission and CMS at the recent 2017 NFPA Conference and Exposition. The panel will discuss and answer questions on what Joint Commission and CMS surveyors have been trained to focus on during surveys, the new scoring Safer Matrix, and new requirements.

Terry L. Fair CHFM CHE | Novant Health | Terry serves as the Corporate Director of Life Safety for Novant Health with more than 36 years of experience in healthcare engineering and management. In his role Terry provides regulatory oversight for environment of care and life safety for all Novant facilities which covers 4 states, as well as, consulting to additional healthcare organizations affiliated with Novant Health.

Gary Milewski MS CHFM CHSP CHE SASHE | Novant Health | Gary has 30 years of professional experience in facilities management, safety management, disaster preparedness, and loss prevention. For the past 28 years he has provided safety, life safety, emergency preparedness, hazardous materials, facilities, and biomedical consultations to a wide variety of industry, with a focus for the past 26 years on acute care hospitals.

Bret M. Martin PE CSP CFPS | Carolinas Healthcare System (CHS) | Bret M. Martin is currently the Director of Fire, Life Safety & Utilities for Corporate Operations for Carolinas Healthcare System. CHS is one of the leading healthcare organizations in the Southeast with 34 affiliated hospitals having more than 7,460 licensed beds. Bret uses his expertise in Fire Protection and Life Safety to support a constant state of readiness for regulatory compliance at CHS facilities.



RANDY JULIAN

RANDY JULIAN | KELLY PROCTOR

### DNV Accreditation

Stiftelsen Det Norske Veritas is a free-standing, autonomous and independent foundation whose purpose is to safeguard life, property and the environment.

Randy Julian – Physical Environment/Life Safety Surveyor, DNV-GL Healthcare - Randy resides in Southport North Carolina and has over 30 years of experience in the healthcare field. He is currently employed as a Physical Environment/Life Safety Surveyor for DNV-GL Healthcare. Randy is a Certified Healthcare Engineer, Certified Healthcare Facilities Manager and a Certified Healthcare Safety Professional. He is also a certified Lead Auditor for ISO 9001 and a certified NIAHO Lead Surveyor.



KELLY PROCTOR

Kelly Proctor – Physical Environment Sector Leader, DNV-GL Healthcare - Kelly resides in Acworth Georgia and has over 25 years of experience in the healthcare field. He is currently employed as a Physical Environment Sector Leader and a Lead Surveyor for DNV-GL Healthcare. Kelly has performed over 400 surveys for DNV-GL and has surveyed hospitals all over the United States, South America, Europe and Asia for DNV-GL.

RON GULLEGE | DEBORAH SMITH

## “How I learned to stop Worrying and Love High Performance Floorcovering”

Good,Better,Best - What to look for and how to evaluate Floorcovering | Smart Decisions concerning Slip and Fall | Acoustics, “ Walking the Tightrope” | “ The Moisture Monster” | Maintenance / Best Practice & Do’s and Don’t

Ron has been in the High Performance Floorcovering Industry for 37 years. 20 years as a Subcontractor , 17 years as a Territory Manager for Shaw Contract Group.

Deborah Smith is globally connected as Vice President of Strategic Accounts for Healthcare with Shaw Industries. Deborah uses her LEED AP, ID&C certifications to collaborate and manage some of the largest Healthcare Systems and GPO's in the country. She is currently working on her EDAC certification. Her 12 yrs in the flooring Industry, has allowed her to create teams across the country, to serve clients with a focus on product solutions for complex projects and the ability to work within their required budgets.

## MATTHEW RAHE

### What the “C” Suite is looking for when it comes to Data and KPI’s

This session will focus on the challenges your executive team faces and what matters most to them. You will gain valuable insight helping bridge the communication gap between engineering and executive leadership, what data to present, and the most effective way share your insights. With the increased emphasis on making data driven decisions specific data points will be provided that will impact their understanding of the critical nature of facilities operations helping support your case for funding requests, staffing adjustments, and performance improvement.

Matthew is currently a Senior Account Executive for Dude Solutions | WorxHub, based in Cary, NC. He has made a career consulting on CMMS solutions and plant maintenance in the healthcare industry. Serving all segments of the healthcare industry including Acute, Behavioral, and Senior Care, he is passionate about working with engineering and maintenance departments to help them get the credit they deserve. He has a deep understanding of the needs and challenges engineers face on a daily basis and helping communicate that to the executive team.



MATTHEW RAHE

## Ken Gregory

### NFPA 99-2012 Changes

Effective July 5, 2016 Centers for Medicare and Medicaid adopted the 2012 version of the NFPA 99, Healthcare Facilities Code®. Additionally, all applicable CMS deemed status accreditation firms, such as Joint Commission, DNV-GL, and HFAP, also updated their respective standards to adopt NFPA 99-2012.

Moving from the previous 1999 version to the 2012 include multiple versions in between that incorporate numerous changes affecting healthcare organizations. This presentation will outline the format of NFPA 99-2012, and provide updates on the major changes organizations need to be aware of for continued compliance.

Ken possesses over 28 combined years of healthcare and consulting experience in the areas of general maintenance/engineering, construction management, physical environment management, and regulatory compliance, and is a Certified Healthcare Safety Professional (CHSP). Ken serves as an instructor in numerous subjects including fire codes, building codes, and all healthcare regulatory/accreditation physical environment subject matter.



KEN GREGORY

## MIKE LELIEVER

### Ignorance is not Bliss: How roofing decisions are costing you money, quality and patient satisfaction.

This presentation will focus on roofing related components that are often overlooked or misunderstood during the decision making process. We will cover key concepts to help facility managers and engineers make more informed decisions when navigating the various aspects of roofing services. Concepts include leak sourcing, maintenance and the importance of reroofing design and warranties. With an understanding of these fundamentals, decision makers can reduce costs, improve quality and help deliver a superior patient experience.

Michael LeLiever | President of Services Roof Solutions, Inc (RSI), Registered Roof Consultant (RRC), Registered Roof Observer (RRO), Certified Associate in Project Management (CAPM) With 10 years as a professional roof consultant, Michael provides executive management over the consulting services division of the company while also being direct account manager for dozens of clients.



MIKE LAIEVER

## Thomas Smith

### Preventing and Responding to Patient Elopement

In today’s health care facilities, a missing patient presents the health care organization with a situation requiring a highly focused, multidisciplinary response. Patient elopement and wandering have recently commanded increased regulatory attention, driving health care facility professionals to develop detailed security plans to protect patients from harm and the organization from penalties. In this session, case studies, risk assessment, and sample policies for preventing and responding to patient elopement and wandering situations will be provided.

Thomas A. Smith, CHPA, CPP | Tom has worked in the healthcare field since 1981. During this time, he held a number of positions in a variety of healthcare facilities including a community hospital, inner city medical center, and a large teaching university based health care system. These organizations provided a variety of experiences working with many different healthcare security models including contract security, proprietary security, and an in-house police department.



THOMAS SMITH

## DAN CHISHOLM

### Generator Testing, How to Stay compliant with new Standards

Dan Chisholm, Chairman of the Technical Committee responsible for NFPA 110, Emergency and Standby Power Systems, discusses emergency power operation and management. The focus will be on the new CMS emergency preparedness requirements for the EPSS, EPSS maintenance and testing management, and planning for power failures.

Dan serves as Chairman of the National Fire Protection Association’s Technical Committees responsible for NFPA 110, Emergency and Standby Power Systems. His company, MGI Advisory Services, provides emergency power consulting and commissioning services for healthcare nationwide.



DAN CHISHOLM

## SCOTT JOHNSON | TOBY KAY | STEVE RUSSELL

### Design-Assist 202: Mission Health’s Current Best Practices

Mission Health System (MHS) is embarking on a 600,000 square foot surgical tower expansion on their Memorial Campus in Asheville, North Carolina. MHS has adopted an integrated approach for project delivery; more specifically, a design-assist model with the Construction Manager and key MEP trade contractors. The goal of the design-assist approach is to yield positive and proactive advantages for cost and schedule management, trade coordination, and overall constructibility. Project team members will offer specific examples of how exactly MHS is doing this, along with their candid feedback on the value and benefit of this approach from the perspective of an active project with recently completed construction documents.



SCOTT JOHNSON



TOBY KAY



STEVE RUSSELL

# SPONSORS



**TERRY FAIR CHFM**  
NOVA HEALTH | NCHEA 2017 Vendor Chair  
nchea.vendorchair@gmail.com



**BONNIE SMITH**  
Vendor Chair Assistant  
nchea.vendorchair@gmail.com  
919-470-8160 (after 1:00 PM)



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## GOLF EVENT

**Tuesday, August 22, 2017**

OMNI Grove Park Inn Course

Registration: 7:00 AM

Tee Time: 8:00 AM - Format: Captain's Choice

Full Engineers go online and register, we will find you a team. Vendors - go online and register your team, add your players or request players. Bill Chapman will set teams.

PLEASE REGISTER ONLINE

[www.nchea.com](http://www.nchea.com)

FOR GOLF INFORMATION: [nchea.golf@gmail.com](mailto:nchea.golf@gmail.com)

Bill Chapman, NCHEA GOLF CHAIR | 828-429-5652

Rick Holmes, NCHEA GOLF CO-CHAIR | 252-903-0733

Wilma Joyner, NCHEA GOLF SPONSOR CHAIR

[nchea.golf@gmail.com](mailto:nchea.golf@gmail.com) or 919-885-2861

## GUEST EVENT

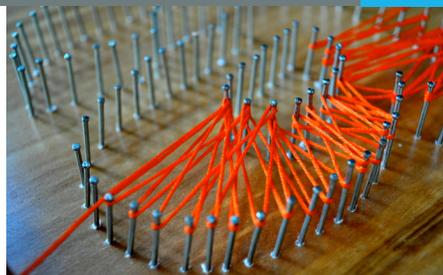
**Join us for Brunch and a Crafty Fun Time!**

**Wednesday, August 23, 2017 - 11:00 AM**

Country Club Ballroom OMNI Grove Park Inn

*(near golf course, take shuttle from Main Hotel Entrance)*

Remember String Art when you were kid? Well, this is Grown Up String Art. A Craft everyone can enjoy. We supply everything you need to go home with a handmade String Art Masterpiece! ENJOY meeting new people, catching up with old friends, a little food, a little wine, a little craft, and TONS of fun!!



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## OMNI GROVE PARK INN

RATE CUTOFF DATE: JULY 9, 2015

Reservations received after this date are subject to prevailing rates and availability.

RATES: \$ 210.00\*\* Single/Double, \$40.00 extra adult. + taxes  
\*\*Tiered Rates are available for your guests to guarantee views:

\$230.00 for Resort View | \$250.00 for Mountain View

GROUP NAME: NC Healthcare Engineers Association

RESERVATION CALL CENTER: 800-438-5800



NCHCA 65th ANNUAL BANQUET ENTERTAINMENT LIKE NO OTHER!!  
Short on Ceremony, Long on FUN! Sit back, jump up, or just enjoy!

*Banquet  
Gala!*

# THE BUSINESS

## REGISTER ONLINE [www.nchea.com](http://www.nchea.com)

EXISTING MEMBERS - FULL & ASSOCIATE

Conference Fee & Membership Renewal for 2018

\$265 Early Bird June 1 - June 19, 2017

\$315 NORMAL Begins June 20, 2017

\$365 LATE Begins July 16, 2017

**JOIN NCHCA TODAY! \$75.00**

NON-MEMBER

\$600 June 19, 2017 - August 25, 2017

ONE-DAY ATTENDANCE

\$225.00 June 19, 2017 - August 25, 2017

- Available for Wednesday, Thursday, and Friday
- Admittance to all events on day selected except Banquet Reception/Banquet on Thursday night

FULL Conference fee includes:

- NCHCA Yearly Membership Dues
- National Keynote Speakers
- Affordable CEU credits
- Valuable educational opportunities
- Admittance to the Vendor Show featuring 135 booths
- Vendor Show Luncheons on Wednesday and Thursday
- One spouse/guest event ticket
- Annual banquet tickets and Reception
- Friday Morning Business Meeting with buffet breakfast



For assistance with Registration, please contact:

**ANNETTE SHERLIN**

MISSION HEALTH | NCHCA 2017 Secretary  
[nchea.secretary@gmail.com](mailto:nchea.secretary@gmail.com)



## SPORTING CLAYS EVENT

### SPORTING CLAYS at BILTMORE ESTATE

TUESDAY, AUGUST 22, 2017 9:00 AM

Not into Golf? Join us at the Biltmore Sporting Clays Club.

Limited spots, so register early! Once limit is met, we will start a waiting list in case we have members that drop out. Because the limited space, this event is offered to FULL HEALTHCARE MEMBERS only.

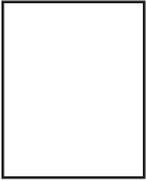
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