




ncHEEA

nc healthcare engineers association

ANNUAL CONFERENCE & EXHIBITION

NCHEA 70th ANNUAL CONFERENCE & EXHIBITION
AUGUST 9-12, 2022

WILMINGTON CONVENTION CENTER | Wilmington, North Carolina





MIKE COOKE CHE CHFM
ConeHealth
NCHEA 2022 President



June 10, 2022

Greetings NCHEA Members & Associates,

I have had the opportunity this week to spend time in one of my hospital facilities here in Greensboro to receive a replacement hip. Many of you have been aware of my long overdue surgery & have supported me in the journey to have this done. The procedure went well despite the patient.

During the stay in "my hospital" it became even more apparent how many teams and disciplines come together to provide seamless service for the patient. My entire stay was one of utmost awe as I watched each teammate care for me in a way that I didn't fully imagine. It was as if I were the only patient who needed anything. I know that the patient experience is supposed be that way and our organizations seek this with every patient. I thought about how our teams provide service behind the scenes while procedures are going on and patients are cared for.

For most of us the facilities we provide service for are extremely old with decades of renovations and outdated infrastructure, however each day we provide a safe, comfortable & reliable environment for the clinicians to perform their life restoring services to many patients. I have never felt more proud to be cared for by the same team of people who I strive to care for daily. I know that many of you feel the same way as I do within your respective organizations. I also know that NCHEA has prepared me for this time in my career to be educated and kept up to date on current regulatory standards, industry best practice & leadership development. NCHEA has been instrumental in many of our NC Healthcare industry leaders progression and contributions to the finest of facilities in the nation.

I would like to take this opportunity to extend my personal invitation for each of you to join us on our 70th anniversary. This will be a time of celebrating the hard "behind the scenes" work our teams do daily to support those who care for others in our community. We will also provide exciting educational opportunities to keep us abreast of the ever-changing landscape of healthcare. Your planning committee has put together an amazing keynote speaker, educational sessions & vendor exhibit. We will also have our annual golf outing as well as a ½ day fishing trip planned. There will be many opportunities to network and fellowship with colleagues from across the state.

Register for the Annual Conference today & book your hotel. Visit www.nchea.com and follow the links to register.

I look forward to seeing you all in Wilmington!

Mike

NCHEA 2022 COMMUNITY & SCHOLARSHIP DONATIONS



AGENDA

Scheduled at time of printing

MONDAY, AUGUST 8

- 8:00 AM..... Planning Committee Pre-Con with WCC Staff
- 11:30 AM..... Planning Committee Lunch
- 1:00 PM..... Board Meeting

Tuesday, August 9

- 8:00 AM..... GOLF REGISTRATION
- 7:00 AM..... FISHING TRIP 1/2 day, Vonda Kay, Carolina Beach Marina
- 3:00 PM..... EDUCATION ATTENDEE REGISTRATION
- 5:00 PM - 6:30 PM.... OPENING RECEPTION - WCC Vendor Exhibit Hall

WEDNESDAY, AUGUST 10

- 7:00 AM..... Registration and breakfast
- 8:00 AM..... OPENING CEREMONY | MIKE COOKE, NCHES President
KEYNOTE COLETTE CARLSON
- 9:45 AM..... **Healthcare Facilities Management - How did I get here**
Shay Rankhorn, ASHE President
- 10:30 AM..... **Growing Trust Capital, Managing Facilities Like a Boss** | Mark Kennedy
- 11:15 AM..... Scholarship Robeson Community College
- 11:30 District Meetings
- 12:00 PM - 2:00 PM.. **Vendor Show** | Lunch in Vendor area
- 2:00 PM..... **Tale of Two Training Programs**
Chip Phifer, Michelle Vargas, Lindsay Brackett
- 2:30 PM - 4:30 PM.... **Guest/Spouse Event** | Embassy Suites (concurrent session)
- 3:15 PM..... **Evolution of the Surgical Platform and Hybrid OR Technology**
Jerry Merritt | Rebecca McKenzie
- 4:15 PM..... **Advanced Microgrid Controls for Enhanced Hospital Backup Power Systems** | Michael Doggett

THURSDAY, AUGUST 11

- 7:00 AM..... Registration and Continental Breakfast
- 8:00 AM..... Welcome Back | Mike Cooke, Matt Olson
- 8:15 AM..... **Preparing for & Implementing Successful DHSR Inspections**
Alex Harwell | Bill Payne
- 9:30 AM..... **Solving the Complexity and Risk of Elevators and Escalators**
Dennis Ford | Andy Kohl
- 10:00 AM..... **Associate Forum** | Nancy Padgett, Wilma Joyner (concurrent session)
- 10:30 AM..... **ASHE Region 3 update** | Dennis Ford
- 11:00 AM..... **Moving a Large Healthcare System to Energy Excellence**
Michael D. Roberts
- 12:00 PM - 2:00 PM.. **Vendor Show** | Lunch | VENDOR AWARDS in Vendor Area
- 2:00 PM..... **Joint Commission** | Herman McKenzie
- 3:15 PM..... **Feeling Vulnerable? Assess your Facility for Disaster-Preparedness**
Mike Lawless | Ryan Searles
- 6:00 PM..... **Annual Banquet Reception**
- 7:00 PM..... **Annual Banquet Gala** | Dinner & Entertainment

FRIDAY, AUGUST 12

- 7:00 AM..... Business Meeting
- 9:00 AM..... **Code Knowledge Test** | Bill Koffel
- 10:15 AM..... **DHSR Update** | DHSR Team
- 11:45 AM..... Closing Remarks | Mike Cooke



KEYNOTE



Professional Speaker & Human Behavior Expert

The Connected Leader

Successful, effective leaders recognize the need to authentically connect on a human level, whether virtually or in-person, to create influence and impact. Connected leaders model courageous behaviors that create a culture of clarity, transparency, inclusion, and accountability, even in the most challenging times. In this engaging, uplifting, and research-based program, attendees will master their ability to communicate and connect on deeper levels, creating an environment where people thrive.

KEYNOTE SPONSORS



EDUCATION

Preparing for & Implementing Successful DHSR Inspections | Alex Harwell PE CHFM CHC, Bill Payne



Alex Harwell
Dewberry Engineers, Inc.

A general guide for hospital facilities and construction staff, designers, and contractors to prepare for and implement successful DHSR project inspections. This session will cover good practices, tips, and processes towards passing DHSR inspections from early construction phase to the final walk-through along with review of the NCHCA sponsored DHSR Preparation Guide and System Checklist documents.

Learning Objectives:

- Understanding of DHSR success goalposts
- How to prepare for DHSR during the construction phase
- Best practices for pre-DHSR inspections, testing, and documentation preparation.
- Best practices for inspection day and post-inspection follow up
- Introduction to NCHCA DHSR Preparation Guide & System Checklist.

Growing Trust Capital, Managing Facilities Like a Boss | Mark Kennedy



Mark Kennedy
Texas Children's Hospital

Developing trusting relationships with senior leadership is vital to securing support and funding for ongoing facilities stewardship needs. Often facilities' leaders and the C-Suite speak different languages. Successful facility executives have learned to deploy data skillfully and use professional quality presentations to gain support for their initiatives. However, there are still plenty in the facilities realm who find it uncomfortable to articulate their needs. Leveraging business acumen is an art and a science. Selecting the right data, using the right tools and telling a compelling story are learned skills, and the development of those skills often involves trial and error.

The Evolution of the Surgical Platform and Hybrid OR Technology

Rebeca McKenzie & Jerry Merritt

This presentation will explore the ever-evolving technology of the Surgical Platform, in particular the most intensive surgical environment, the Hybrid Operating Room. Talking points will include a review of equipment requirements, their spatial, flow, and infrastructure impact and how we may need to plan for future evolutions within the Surgical environment.

Learning objectives:

- High impact areas to focus on in order to allow for future accommodations to the OR with lower impact
- Trends in procedure types that should be considered for future planning
- Infrastructure impacts and considerations to keep in mind for future flexibility
- Lessons learned and common mistakes made in the Surgical Platform



Rebeca McKenzie
Duke Health



Jerry Merritt
Little

Feeling Vulnerable? | Mike Lawless, PE, LEED AP Assess Your Facility for Disaster-Preparedness

When disaster strikes, hospitals and healthcare systems are on the front line of ensuring the safety of the community and their patients. This presentation provides an outline for the first step in the resiliency process: assessing your facility's vulnerability. An engineering firm's Senior Director of Innovation and Security Consultant will discuss the six stages of a thorough vulnerability assessment to determine where your facility may be at risk and the steps required for mitigation.



Mike Lawless
IMEG Corp.



Ryan Searles
IMEG Corp.

Design Considerations for your next Hospital Paralleling Switchgear System | Mike Doggett



Mike Doggett
Chapman Company

Today's hospitals are growing in size, and the electrical loads are increasing. Hospital facility managers face pressures to provide reliable power safely and be able to maintain increasingly digital electrical equipment without interruption. They also face pressures to be sustainable and eco-friendly where possible. Advanced power control systems need to be able to keep up with these trends, and be ready for the future.

This presentation will discuss a wide range of factors to consider when planning a new hospital paralleling switchgear system, and will discuss some new advances in these controls.

Moving a Large Healthcare System to Energy Excellence | Michael D Roberts PE CHFM SrHE



Michael D. Roberts
Atrium Health

The presentation will address all aspects of starting and maintaining an energy management program. It will cover the following CHFM competencies Administration, Compliance, Energy Management, Finance Management, Maintenance & Operations and Sustainability.

Atrium Health, based in Charlotte, N.C., currently consists of 42 hospitals across four states. When the energy management program began, there were 10 hospitals totaling 7.5 million SF with an average Energy Star score of 12. Atrium Health developed an Enterprise Energy Management program that started with a capital investment and was followed by operational changes that consisted of a dedicated corporate energy team, operational and capital investments and an energy training program for maintenance mechanics and technicians. This successful initiative has moved the average Energy Star score for these 10 hospitals to 68, reduced energy consumption by 30%, reduced carbon footprint by 28%, is currently avoiding \$5.5 million per year in energy expense and has been nationally recognized. The success of this program is the foundation for Atrium Health's carbon neutral strategy and is being expanded to all the new acquisition and merger properties. Atrium Health has been awarded as an EPA Energy Star Partner of the Year five years in a row obtaining the Sustained Excellence designation in years three through five and has forty-one Energy to Care awards.

Learning Objectives:

- Discuss strategies for engaging senior leadership and staff in sustainability goals.
- Explain development of a system wide energy program.
- Identify key ways the system wide energy program influenced energy reduction.
- Review how to make the business case for an energy management program and the direct financial tie to a carbon neutral program.
- Demonstrate projects that drove energy savings.
- Review how the Energy to Care program can drive home the success of the energy initiative to leadership

Speaker Bios and more information on sessions:
www.nchea.com

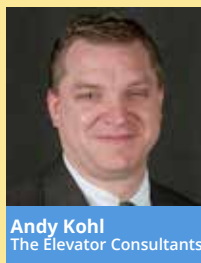
Solving the Complexity and Risk of Elevators and Escalators | Dennis Ford, Andy Kohl

Elevators and escalators are just two of many health care facilities engineering responsibilities. Find out how to control cost and downtime and eliminate deferred/callback maintenance and unnecessary repairs of elevators and escalators. Gain a detailed overview of the elevator industry to implement programs with immediate returns, efficiency and risk mitigation. This session will provide a case study showing the guidelines and best practices from Atrium Health for elevator assessments, maintenance, modernizations, repairs, and new elevator installations as well as for regulatory compliance, controlling cost and monitoring progress.

- Implement methods that contribute to a successful vertical transportation/elevator management program.
- Manage elevators and elevator projects to be within schedule, budget and code compliance to ensure mitigating risk and unnecessary cost.
- Develop and measure your elevators' operational, financial and code compliance.
- Articulate elevator industry trends and factors that are unique to health care facilities.



Dennis Ford
ASHE Region 3 Representative



Andy Kohl
The Elevator Consultants

TALE OF TWO TRAINING PROGRAMS

Michelle Vargas, Chip Phifer, Lindsay Bracket

Empowerment is defined as increasing the capacity of individuals or groups to make choices and to transform those choices into desired actions and outcomes. This session explores how two healthcare systems empowered their facilities engineering staff through internal education and training specific to their job competencies, equipment and infrastructure, and standard policies and operating procedures. Although CommonSpirit Health and Novant Health experienced their own unique challenges and processes, they shared the common goal of realizing outcomes that promote safety, compliance, patient satisfaction, and employee engagement. These outcomes were achieved by including technical and soft skills into the training content, yielding a holistic program that is relevant for every position on the organizational chart. Through patience and perseverance, CommonSpirit Health and Novant Health developed and implemented scalable programs that provide clear career growth opportunities and informed succession planning. Join this session to discover how to adapt their approach to your organization.



Michelle Lozano Vargas
CommonSpirit Health®



William "Chip" Phifer
Novant Health, Inc.



Lindsay Brackett
Legacy FM, LLC

DHSR - Division of Health Service Regulation
DHSR updates with the DHSR Team



Herman McKenzie
The Joint Commission



Herman McKenzie is currently a Director in the Standards Interpretation Group at The Joint Commission. In this role, he manages all activities associated with the daily operations of the Physical Environment Department, provides standards interpretation and education to Joint Commission Surveyors and accredited organizations, reviews equivalency requests and survey reports, conducts surveys and Intracycle Monitoring conference calls, serves as faculty for educational programs, and is a speaker for national, regional, state, and local audiences.

Mr. McKenzie has over 30 years of health care experience having held managerial and director-level roles in Clinical Engineering, Plant Operations and Facilities Services throughout the Chicago area. Previously, he was a part of the team that opened the first new hospital in Illinois in over 25 years.



Shay Rankhorn
ASHE President
Quorum Health

Healthcare Facilities Management - How did I get here

Shadie R. Rankhorn, Jr. SASHE, CHFM, CHC
Senior Director, Facilities Management,
Quorum Health, Brentwood, TN



CODE KNOWLEDGE TEST | William Koffel



William Koffel
Koffel Associates

Understanding regulatory codes is essential for the proper design of any health care facility and recent editions of the codes have introduced new requirements that offer additional design options. This webinar will reinforce your knowledge of long-standing requirements and provide insights into the newer provisions.

Audience members will hear answers to common questions about codes (NFPA 101®, International Building Code, and others) and will be able to test their knowledge and assumptions of these codes as well as the new editions. While most questions will be from the IBC and NFPA 101, discussion of other Codes (i.e. NFPA 72, NFPA 80, and the CMS requirements) will also be included.

This presentation will highlight background justification of changes to specific requirements and examples of how requirements have been applied in the health care industry in both new and existing construction.

Learning Objectives

- Apply requirements of NFPA 101-2012 as adopted by CMS.
- Learn about relevant reference standards such as NFPA 72-2010, NFPA 80-2010, and NFPA 99-2012.
- Assess personal comprehension of regulatory codes, including the IBC, based on correct responses to seminar questions.
- Identify and discuss the culture change provisions in NFPA 101-2012 as adopted by CMS

For questions or info on schedule and speakers:

Contact Matt Olson
nchea.programchair@gmail.com



Matt Olson
WAKEMED CARY
NCHCA 2022 PROGRAM CHAIR

EVENTS



NCEHA 2022 COMMUNITY Donations from Golf go to Ocean Cure, Carolina Beach

GOLF

GOLF TOURNAMENT
CASTLE BAY GOLF COURSE
Tuesday, August 9, 2022
 8:00 AM REGISTRATION
 9:00 AM TEE TIME

GOLF Planning Team
nchea.golf@gmail.com
Rick Holmes NCEHA GOLF CHAIR
 Debbie Gilbert, Wilma Joyner,
 Nancy Padgett, Todd Tainter

Full HEALTHCARE Member: NO FEE
 (employed by a Healthcare Facility)

Full ASSOCIATE Member:
 \$600 per team
nchea.golf@gmail.com for codes

GOLF Sponsorship Opportunities & REGISTRATION
 Check website for more details:
www.nchea.com



JEFF FORSYTH CHE
 DUKE REGIONAL
 NCEHA 2022 VENDOR CHAIR

Contact Jeff Forsyth for more info or questions concerning sponsorships, vendors and/or exhibits.
nchea.vendorchair@gmail.com

BUSINESS BREAKFAST

NCEHA MEMBER BUSINESS BREAKFAST
Friday, August 12, 2022 | 7:00 AM
 Free with full education conference pass.
 No registration needed.

FISHING CHARTER



FISHING CHARTER
Tuesday, August 9, 2022
 7:00 AM Registration
Vonda Kay - Carolina Beach
 FISH CHARTER Planning Team
 Mike Cooke, Cone Health | mike.cooke@conehealth.com
 Contact Mike Cooke for codes and registration questions.

Full HEALTHCARE Member: NO FEE (employed by a Healthcare Facility)
Full ASSOCIATE Member's Sponsor a Fishing Team of four (4) \$250 includes – one associate member sponsor & three full members per team.

GUEST EVENT

GUEST/SPOUSE EVENT
Wednesday, August 10, 2022 | 2:30 pm
Embassy Suites | Ballroom
LIMITED to 50 - Full Conference Educational Attendee will register guest. No fee. You Must Be Pre-Registered To Attend. Guest of sponsors or exhibitors, \$40.00 fee.

Join us for good food, a little bubbly, and a fun craft activity to take home. We will be creating a rag wreath. Materials are pre-cut and ready to assemble. Space is limited to 50, make sure you are registered!



Join our sponsors in support of NCEHA Annual Conference Education Sessions and Special Events. Whether your company is interested in strengthening relationships with current customers or meeting prospective customers, the NCEHA Annual Conference & Exhibition connects you with key purchasers and decision makers in the health care facility management field. We appreciate and depend on all of our sponsors support.

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Full Conference Registration Fees

Existing Members - Full & Associate Conference Fee & Membership Renewal

EARLY BIRD June 1 thru June 16, 2022

Early Bird rate **MUST BE PAID** by **JUNE 16, 2022**
FULL HEALTHCARE: \$225.00 | ASSOCIATE: \$275.00

JUNE 17, 2022 - JULY 24, 2022:

FULL HEALTHCARE: \$275.00 | ASSOCIATE: \$325.00

JUNE 25, 2022 - AUGUST 12, 2022:

FULL HEALTHCARE: \$325.00 | ASSOCIATE: \$375.00

NON-MEMBER

JUNE 1, 2022 - EVENT: \$600.00

ONE-DAY ATTENDANCE

\$225.00 JUNE 1 thru AUGUST 9, 2022

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

If you need assistance with **PAYMENT**
contact: **TERRY FAIR**
nchea.treasurer@gmail.com



TERRY FAIR
CHFM CHE SrHE
NOVANT HEALTH
NCHEA 2022 Treasurer

If you need assistance with registration,
Please contact:
Mike Rich via email:
nchea.secretary@gmail.com



MIKE RICH
SAMPSON HEALTH
NCHEA 2022 Secretary

FULL Conference fee includes:

- NCHEA Yearly Membership Dues
- National Keynote Speakers
- Affordable CEU credits
- Admittance to the Vendor Show featuring 140 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

Preferred payment is online at www.nchea.com
If you need to mail in check for registration:

Make check out to **NCHEA**

Mail to: **TERRY FAIR**
2608 Erwin Road
Suite 148 #236
Durham, NC 27705

REGISTER ONLINE
www.nchea.com

CONFERENCE HOTELS

Hotel Ballast Wilmington, Tapestry Collection by Hilton

301 N Water St, Wilmington, NC 28401

The cutoff date for making reservations
(call-in or online) is **July 7, 2022**.

NCHEA RATE:

Single & Double: \$165.00 -
Triple: \$175.00
Quad Rate: \$185.00

EMBASSY SUITES by Hilton Wilmington Riverfront

9 Estell Lee Pl, Wilmington, NC 28401

NCHEA RATES: \$181.00 - \$201.00 ++
The cutoff date for making reservations
(call-in or online) is **July 7, 2022**.

Call in - 1-800-HILTONS and use the
group code: HE2



Aloft Wilmington at Coastline Center

501 Nutt St, Wilmington, NC 28401

NCHEA RATE: 229.00 + tax USD per night
Cutoff date: **July 7, 2022**



WILMINGTON
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CONVENTION CENTER

business made casual

515 Nutt Street | Wilmington, NC 28401

All conference education and vendor events are
being held at the Wilmington Convention Center.

All hotels are an easy walk to the Wilmington Con-
vention Center. Trolley Service will run in mornings,
lunch, and end of sessions for all downtown hotels.

Best Western PLUS

503 Nutt St, Wilmington, NC 28401

NCHEA RATE: 149.00 +tax USD per night
Cutoff date: **July 7, 2022**
Call in: 1-800-617-7732 or 910-763-2800



Check www.nchea.com for updated hotel information.

EDUIN22

NORTH CAROLINA HEALTHCARE ENGINEERS ASSOCIATION

www.nchea.com



NCHEA 2022 ANNUAL CONFERENCE & EXHIBITION

August 9-12, 2022 | Wilmington, NC