

# SCSHE

## SC SOCIETY OF HOSPITAL ENGINEERS

### **It's A Celebration: 65th Annual SCSHE Spring Conference Engineers Packet**

**May 7-9, 2025**

Hyatt Regency, Greenville  
220 N. Main Street, Greenville, SC 29601

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## Wednesday, May 07

7:30 – 8:00 am	<b>Registration &amp; Breakfast</b>	<b>Location:</b> <a href="#">Mezzanine</a>
8:00 – 8:15 am	<b>Opening Remarks</b> <a href="#">Mark Dease</a>   <a href="#">President</a>   <a href="#">SCSHE</a>	<b>Location:</b> <a href="#">Teal Ballroom</a>
8:15 – 9:00 am	<b>Opening Keynote: Enjoy Life...This is NOT a Dress Rehearsal</b> <b>Location:</b> <a href="#">Teal Ballroom</a> <a href="#">Marianne Frederick</a> , <a href="#">MHSA</a>   <a href="#">Humorist</a> , <a href="#">Speaker</a> , <a href="#">Team Educator</a> After successfully completing this training course, attendees will be able to: <ol style="list-style-type: none"><li>1. Identify three benefits of adding more humor, laughter and play to your work and life.</li><li>2. Practice fast and fun tips to add enjoyment to your workday.</li><li>3. Create an 'Action Plan' to build morale, enhance motivation and increase productivity.</li></ol>	
9:15 – 10:15 am	<b>AI in Healthcare Facilities Management - The Future is Now</b> <b>Location:</b> <a href="#">Teal Ballroom</a> <a href="#">Shay Rankhorn</a>   <a href="#">Partner</a>   <a href="#">Facility Diagnostics, LLC</a> During this session we will explore the growing role of Artificial Intelligence (AI) in healthcare facilities management. We'll dive into how AI is reshaping our field by driving operational efficiency, saving costs, and assisting facility managers in their daily administrative tasks. We'll also look at real-life examples of AI in action and discuss strategies for overcoming the challenges of AI adoption. By the end of this session, you'll have a clearer understanding of how AI can benefit your healthcare facility and how to begin your own AI journey. <u>Learning Objectives:</u> <ul style="list-style-type: none"><li>• Introduction to Artificial Intelligence/Basics of AI</li><li>• Current Challenges in HFM</li><li>• AI in Action in HFM</li><li>• Barriers to AI Adoption</li><li>• Means to Overcome Barriers</li></ul>	
10:15 – 10:30 am	<b>Break</b>	
10:30 – 11:30 am	<b>Keeping Doc's Cool, Dry &amp; Happy in the OR.. Can I do it with What I've Got?</b> <b>Location:</b> <a href="#">Teal Ballroom</a> <a href="#">David N. Shurk</a> , <a href="#">DES</a> , <a href="#">CEM</a> , <a href="#">LEED-AP</a> , <a href="#">CDSM</a> , <a href="#">CEWP</a> , <a href="#">SFP</a> , <a href="#">CIAQM</a> <a href="#">National Sales Manager</a>   <a href="#">Innovative Air Technologies</a> This technical session will give these professionals a fundamental understanding of the basic principles that must be considered in order to properly control their hospital operating room (OR). It will establish how temperature and humidity interact to create a satisfying and productive healthcare environment and provide information to assist the healthcare facility professional in analyzing a	

hospital OR when troubleshooting the space due to problems. Various HVAC retrofit scenarios to remedy ailing OR's will also be discussed.

#### Learning Objectives

- Explore the fundamentals of various HVAC system types serving hospital OR's, including traditional chilled-water, DX split systems, low-temp glycol chillers, and both solid-and-liquid desiccant dehumidification units.
- Learn how minimum code and compliance requirements for temperature and relative humidity align within the real-world operational capabilities of legacy HVAC systems installed in many existing hospital facilities.
- Recognize the limitation of traditional HVAC systems delivering 42°F CWT, and why they may "miss the mark" when trying to produce the desired OR environment.
- Understand what surgeons really mean when they insist that the OR be made colder and what issues may arise when attempting to satisfy their demands.
- Identify various HVAC system retrofit scenarios to remedy ailing ORs.

11:30 am

#### **Adjourn to Networking Event**

Noon - 4:00 pm

#### **Networking Event - details below**

6:00 - 8:00 pm

#### **Evening Networking Reception: SCSHE 65 Year Celebration**

**Location:** Pergola at the Roost & Mezzanine at the hotel

## **Thursday, May 08**

7:30 - 8:00 am

#### **Registration & Breakfast**

**Location:** Mezzanine

8:00 - 9:00 am

#### **DPH FLS Update -**

**Location:** Teal Ballroom

[Todd McAlhany](#) | Division Director | SC DPH

[Mike Winnington](#) | Investigator IV | SC DPH

#### Learning Objectives:

- Discussion on the top ten violations for hospitals with Q&A.
- Review & discuss the requirements for fire-rated door maintenance & modifications.
- Discuss maintenance of the means of egress & obstructions to the means of egress.

9:00 - 9:30 am

#### **Break**

9:30 - 10:30 am

#### **The Long Haul - Moving a Large Healthcare System to Energy Excellence**

**Location:** Teal Ballroom

[Michael Roberts, PE, SASHE, CHFM, SrHE](#) | Enterprise Director Energy Services | Advocate Health

This presentation will address all aspects of starting & maintaining an energy management program. It will cover defining the issue, proposing solutions, obtaining the business case approval, design and construction, overcoming challenges and sustaining the gains. The audience will be facility directors and managers and the design consultant community.

The presentation addressed how Atrium Health reduced our scope 1 and 2 carbon footprint by almost 35% through starting and maintaining a system wide energy management program

It will cover defining the issue, proposing solutions, obtaining the business case approval, design and construction, overcoming challenges and sustaining the gains. The audience will be facility directors and managers and the design consultant community.

The presentation will be an interactive PowerPoint. The audience will be asked to answer questions either by hand or ASHE provided electronic polling. The presentation will include some levity to engage the audience.

The PowerPoint will have excellent sample charts and slides for attendees to model their reporting after.

The case study will include different perspectives that occurred and how consensus was built.

Learning Objectives:

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

10:30 - 10:45 am

**Break**

10:45 - 11:45 am

**Using Facility Condition Assessment & CMMS Systems Data to Speak to C-Suite**

**Location:** Teal Ballroom

[Michelle Mucia](#) | Senior Director Healthcare Industry Solutions | Nuvolo (Trane Technologies Company)

Learning Objectives:

1. Use CMMS Platforms to Identify/ leverage facilities compliance & historical spend
2. Utilize Key Performance Indicators from FCAs/CMMS systems to prioritize & measure
3. Prepare measurable GAP Analysis Strategies for presentation
4. Support sustainability road maps
5. Demonstrate revenue risk & FCI building health via asset replacement prioritization within CMMS platforms/FCA data
6. Understand your stakeholders & what is meaningful to them
7. Present to C-Suite & reposition facilities as a profit center vs cost center using appropriate evidence

11:45 - 1:00 pm

**Vendor Luncheon - Location:** Pergola at the Roost & Roost Atrium at the hotel

1:00 - 4:00 pm

**Vendor Show - Location:** Studio 220 at Noma at the hotel

# Friday, May 09

8:00 – 8:30 am	<b>Breakfast</b>	<b>Location:</b> <a href="#">Mezzanine</a>
8:30 – 9:00 am	<b>Region 3 Update, Michael Roberts</b>	<b>Location:</b> <a href="#">Teal Ballroom</a>
9:00 – 9:30 am	<b>Business Meeting</b>	<b>Location:</b> <a href="#">Teal Ballroom</a>
9:45 – 10:30 am	<b>SCHA Update</b> Thornton Kirby  Partner   SCHA Lara Hewitt  Partner   SCHA	<b>Location:</b> <a href="#">Teal Ballroom</a>
10:30 – 11:00 am	<b>Roundtable</b>	<b>Location:</b> <a href="#">Teal Ballroom</a>
11:00 am	<b>Adjourn</b>	

## General Information:

### LOCATION

Hyatt Regency 220 N. Main Street, Greenville, SC 29601

### REGISTRATION & FEES

Attendance is \$75 for current paid members or \$155 for non-members. If you would like to re-new your membership or join the society, [click here](#)

To register for this or other meetings, visit the [SCHA web calendar of events](#). Select this event, view the agenda, and register online. **Online registration will close on April 30th. Persons wishing to register after that time must call Kim Wooten at (803) 796-3080.**

Registration and payment confirmation will be emailed to you once the registration process is complete. If you experience problems, please contact Ashlyn Pittman, [apittman@scha.org](mailto:apittman@scha.org) or Kim Wooten, [kwooten@scha.org](mailto:kwooten@scha.org)

### Top Golf Networking Event

*\*\* If you plan to participate in the Top Golf networking event on Wednesday, be sure to select that option during your online registration, as a head count is needed prior to the event. There is no charge for engineers to participate. \*\**

The Top Golf networking event will be held at Top Golf located at 201 Clifton Court, Greenville, SC 29615. Please arrive at 12:00 pm. Food & drink will be provided at the event.

### HOTEL INFORMATION

[Click here](#) to book your hotel reservations. Room rates are:

Single/Double \$199++ a night

Triple/Quad \$209 ++ a night

Cutoff date for reservations is April 15th, 2025.

### Scholarships

*We have set a total budget for scholarships this year at \$10,000 with 15 total @ \$650 each engineer per hospital. Our goal, based on finances after show, is to make up the expense difference but we wanted to*

communicate a maximum budget level up front with everyone. The \$650 scholarships will be first come first serve - please email Kim, [kwooten@scha.org](mailto:kwooten@scha.org) if you are interested in a scholarship.

### **SUBSTITUTION/REFUND/CANCELLATION**

Any registrant who cannot attend may send a substitute from the same organization by emailing Kim Wooten at [kwooten@scha.org](mailto:kwooten@scha.org). The registration fee (less \$25 processing fee) is refundable if SCHA is notified of the cancellation no less than 14 days prior to the conference. No refunds will be issued past this time. No refunds will be issued for no-shows.

### **SPECIAL DIETARY NEEDS**

If you have any special dietary needs, please contact Kim Wooten at 803-744-3527 or [kwooten@scha.org](mailto:kwooten@scha.org).

Continuing education units have been applied for through ASHE. Continuing Education Certificates for proof of attendance will be issued to all registrants attending this event upon completion of the online program evaluation.

## **Speaker Bios**

### **Marianne Frederick, MHSA**

- Keynote Speaker, Humorist, Interactive Trainer, Author and 'OSHA Queen'
- Adjunct Instructor at Greenville Technical College: Greenville, SC
- Trainer for Augusta Technical College, Augusta, GA
- Online Educator for Primedia WorkPlace Learning: Dallas, TX
- Physical Therapist: Specialty in Geriatrics and Dementia Education
- Masters in Health Services Administration: Medical University of SC
- Bachelors of Science in Physical Therapy: Ohio State University

#### Introduction:

- MARIANNE "feeds the spirit of organizations" by nourishing health, creativity, customer-care and intergenerational communication. She cooks up energy-boosting, stress-busting and brain-building learning experiences.
- *Keynote Speaker, Humorist, Interactive Trainer and Author*, her career as a Physical Therapist awakened a passion for educating with a spicy blend of creativity and fun. An Anatomy and Physiology Instructor at Greenville Tech, she was dubbed the 'OSHA Queen' while doing injury prevention programming . . . and it must be true . . . because her Hard Hat says so!
- She facilitates powerful and fun relationship-building sessions for Leadership Teams, Associations, and Businesses. Her programs effectively impact multi-generational and multi-cultural audiences.
- Her chapter in "Exceptional Accomplishment" focuses on how *humor, laughter and play* help us achieve our goals and "Success Is a Team Effort" shares her best teambuilding tips. "Team Up", features '*The Solemate Search*' (her favorite icebreaker).
- She now laughingly describes her MHSA (Masters in Health Services Administration) as a 'Masters in Humorously Sharing Anecdotes'.

#### **Shay Rankhorn:**

Shay Rankhorn is a strategic leader with over 25 years of experience in facilities, design, and construction management. As a partner at Facility Diagnostics, Shay oversees daily operations, strategic planning, and a portfolio of more than 100 projects, including commissioning services, facility assessments, mock surveys, and master planning. His career includes collaboration with leading organizations like HCA, Ballard Health, Lifepoint, Triad, CHS, and Norton Healthcare.

Previously, Shay served as the 2022 ASHE President and the V.P. of Facilities and Construction Management at Quorum Health, managing capital planning, project delivery, and daily operations for 22 hospitals.

#### **David Schurk:**

David Schurk holds the positions of Director of Applied Engineering and National Sales Manager at Innovative Air Technologies in Covington, GA. Additionally, he serves as an ASHRAE Distinguished Lecturer and Instructor for the Humidity Control I & II professional development training courses. Previously, he chaired the American Society of Healthcare Engineering (ASHE)

Sustainability and Decarbonization Leadership Task Force. With over 40 years of experience, David has contributed significantly to HVAC systems design and analysis across diverse sectors, specializing in healthcare and aerospace environmental control and air quality. His expertise is recognized through numerous ASHRAE Journal articles, frequent speaking engagements both domestic and internationally, and acclaim as an authority in dehumidification analysis, system design, component selection, and building integration. He can be reached at 920-530-7677 or [david@dehumifiers.com](mailto:david@dehumifiers.com)

**Michael D Roberts, PE, SASHE, CHFM, SrHE:**

Michael Roberts has over 30 years of experience working directly for healthcare systems in a variety of facility management leadership roles. He also has a wealth of experience outside of healthcare from the private, public, and utility sectors.

Michael is currently working with Advocate Health as Enterprise Director Energy Services. Advocate Health and is comprised of 58 acute care facilities covering over 35 million square-feet plus a large medical real estate portfolio. He has been with Advocate Health since 2012 and involved with their energy program since its inception driving down energy consumption over 35% in the acute care facilities. He developed a strategy for Advocate Health to become carbon neutral at no additional operating expense using savings from energy reduction and onsite solar installations to fund renewable energy credits and carbon offsets. Advocate Health was an early signee to the HHS Pledge to reduce emissions by 50% by 2030 and achieve Net Zero by 2050. Atrium Health has been awarded with the EPA's Energy Star Partner of the Year for the past seven years receiving the added distinction of Sustained Excellence for the past five years.

Mr. Roberts earned his Bachelor of Science in Mechanical Engineering from Virginia Tech and is a registered Professional Engineer, SASHE, Certified Healthcare Facilities Manager and Senior Certified Hospital Engineer. Michael is an active member of the American Society of Healthcare Engineers (ASHE) and served two terms on the ASHE Board as the Region 3 Representative (2018-2021) and is the 2025 ASHE Region 3 Representative. He was previously co-chair of the ASHE Sustainability Committee and has worked and continues to work on numerous sustainability task forces. He is a North Carolina Healthcare Engineers Association (NCHAEA) Past President, was a board member for seven years and is the current NCHAEA Sustainability Liaison to ASHE assisting them to achieve Elite chapter status each year it has been offered. He was the North Carolina Healthcare Engineers Association's 2020 Engineer of the Year. He is an advocate for sustainable energy practices speaking at a number of conferences annually.

Michael volunteers with youth groups coaching basketball and baseball and with Scouts America.

Coming up on 13 years in the role. 16 years as a Hospital facility AD or Director. Design engineer for a large consulting firm AECOM. Worked onsite as a design engineer for plant mods at a large nuclear power plant

**Todd McAlhany:**

Todd is the Director of the Division of Fire & Life Safety, he has over 40 years in the fire service, coming to DHEC in 2009 after retiring as a Captain from the Columbia Fire Department. He holds certifications from the National Fire Academy, FEMA, SC Fire Academy, SC Criminal Justice Academy, International Code Council and the National Fire Protection Association. Todd was also a member of The United States Coast Guard Reserve with certifications as a Fire Fighter, Facility Inspector, Pollution Investigator, Boarding Officer and Marine Safety Explosive Handling Supervisor.

**Mike Winnington**

Mike started with DHEC Bureau of Certification Life Safety in March of 2008 as Life Safety Inspector. He transferred to Health Regulations Life Safety Division in February 2019. He is a Certified State Fire Marshal and former Police Officer.

**Michelle Mucia:**

Michele is a 20-year healthcare veteran with B.S. degrees in Education, Business Management and working toward her M.S. Healthcare Construction Management. Her experience has been dedicated to the healthcare industry throughout her career. Her expertise encompasses CMS compliance & NFPA codes/standards within the physical environment by way of survey processes & Asset Management platforms.

Michele has been invaluable to large IDN Healthcare systems supporting asset management, deficiency prioritization, inventory management & preventative maintenance processes. Additionally, she has supported sustainability road mapping strategies, that have proven outcomes in energy reduction/optimization.

Michele is a member of NFPA, ASHE & THEA, HESNI, KSHE & TAFHM. She has certifications in CHSP-FM, HACP and is a current Principal to NFPA 99 (since 2016), & NFPA 101 in years past. Her expertise of the use of KPI Analytical compliance assessments/inspections & data driven strategies has proven to increase FCI health in infrastructure, lean FTE facilities operations processes & compliance.

**Thornton Kirby:**

Thornton Kirby is President & CEO of the South Carolina Hospital Association. Before joining SCHA, Thornton practiced law as a healthcare attorney and worked as a hospital executive. He also served as Executive Secretary to the Board of Trustees for Clemson University. This unique combination of experiences has combined to make him a well-respected thought leader on state and federal healthcare policy issues.

Thornton also has extensive experience with governing boards. He has served on more than 50 boards, leading ten of them as chairman. His board service includes nine years of service on the board of Joint Commission International, including two years as Chair.

Thornton studied Government at the University of Virginia, and he earned his law degree at the University of South Carolina. He is a Fellow in the American College of Healthcare Executives and a frequent speaker on healthcare issues.