

SCSHE

SC SOCIETY OF HOSPITAL ENGINEERS

64th Annual SCSHE Spring Conference Engineers Packet May 8-10, 2024

Doubletree by Hilton
2100 Bush River Rd, Columbia, SC 29210

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Wednesday, May 08

- 7:30 – 8:00 am **Registration & Breakfast - Location: Calhoun Room**
- 8:00 – 8:15 am **Opening Remarks - Location: Newberry Room**
[Mark Dease | President | SCSHE](#)
- 8:15 – 9:00 am **Opening Keynote - Location: Newberry Room**
[Major General \(Ret.\) Todd B. McCaffrey | Secretary of SC Dept. Veteran's Affairs](#)
- 9:15 – 10:15 am **Fire Door Mitigation Practices - Location: Newberry Room**
[Paul D. Anderson | Owner | Revelation Door Inspections](#)
After successfully completing this training course, attendees will be able to:
1. Identify the Top 10 Deficiencies commonly found during Inspections.
 2. Identify the differences between Mitigation and Repair practices.
 3. Identify proper methods for adjusting Clearance issues.
 4. Identify approved Products for mitigating Clearance issues.
 5. Identify options for correcting missing or illegible Fire Labels
 6. Identify what needs to be done if a Field Modification has already been made to the opening.
 7. Identify proper repair methods for filling holes in either the door or frame.
 8. Identify when damaged doors or frames need to be replaced or repaired.
 9. Identify what needs to be done when an Opening is no longer used as an Opening
- 10:15 – 10:30 am **Break**
- 10:30 – 11:30 am **Preparing for & Implementing Successful Project Inspections - Location: Newberry Room**
[Alex Harwell | Associate Vice President | Dewberry](#)
This session will provide a general guide for hospital facilities and construction staff, designers, and contractors to prepare for and implement successful hospital project construction inspections. This session will cover good practices, tips, and processes for inspections from early construction phase to the final walkthrough along with review of the NCHES sponsored Hospital Inspections Preparation Guide and System Checklist documents.
Learning Outcomes
- Understanding of inspection success goalposts
 - How to prepare for inspections during the construction phase
 - Best practices for pre-final inspections, testing, and documentation preparation.
 - Best practices for inspection day and post-inspection follow up
 - Introduction to Hospital Inspections Preparation Guide & System Checklist
- 11:30 am **Adjourn to Networking Event**
- Noon – 5:00 pm **Networking Event - details below**

6:00 – 8:00 pm

Evening Networking Reception – Lower Lobby at hotel

Thursday, May 09

7:30 – 8:00 am

Registration & Breakfast – Location: Lexington Ballroom

8:00 – 9:15 am

ReMOBilizing: New Direction in Outpatient Care – Location: Saluda Room

[Christina Smith](#) | Senior Associate | LS3P

[Helen Byce](#) | Associate Principal | LS3P

New directions in outpatient care are reshaping the healthcare landscape. The evolving market for Medical Office Buildings (MOBs) presents both challenges and opportunities for innovation, emphasizing convenience, patient-centered approaches. Location plays a crucial role, whether it's infill within urban areas, rural settings, or destination health. The decision-making process varies from developer to system-driven; with considerations including cost, services, and scale. Key drivers of building systems decisions influence factors such as sustainability, technology integration, and operational efficiency. Regulatory requirements for hybrid MOBs and Ambulatory Care Facilities add another layer of complexity, necessitating careful analysis and compliance.

Learning Outcomes

- Identify new directions in outpatient care that are reshaping the healthcare landscape.
- Highlight challenges and opportunities for innovation.
- Describe key drivers of building systems decisions.
- Explore regulatory requirements for hybrid MOBs and Ambulatory Care Facilities.

9:15 – 9:30 am

Break

9:30 – 10:30 am

Demystifying Reliability Centered Maintenance Location: Saluda Room

[Devin Hugie](#) | CEO | Forum Reliability

As health care facility professionals continue forward on the journey toward operational excellence, it is important to take a step back, examine the current state of the facility's asset management philosophy and gain an understanding of how a focus on reliability can enhance the patient care experience.

- Describe how reliability-centered maintenance (RCM) is leveraged to determine the maintenance requirements of any physical asset.
- Identify opportunities to evolve our outdated "just-in-case" calendar-based maintenance strategy towards reducing risk, based on evidence of need.
- Present the Design, Installation, Potential Failure, Failure (D-I-P-F) Curve and discuss failure patterns.
- Think beyond preventative maintenance and begin to unlock the potential of condition-based maintenance and predictive maintenance.

10:30 – 10:45 am

Break

- 10:45 - 11:45 am **Commissioning: It's All in the Details: Understanding Commissioning and Life Safety Commissioning - Location - Saluda Room**
 Shay Rankhorn | Partner | FD Energy Solutions
 Throughout this presentation, we will explore the key principles, requirements, and best practices associated with each of these standards. By understanding and adhering to these guidelines, building owners, operators, and stakeholders can enhance the safety, reliability, and efficiency of their facilities, ultimately creating environments that promote the well-being of occupants and protect against unforeseen risks.
 Learning Objectives:
1. What is Commissioning?
 2. Why is Commissioning Necessary?
 3. NFPA 3 - Life Safety Commissioning
 4. NFPA 4 - Integrated Life Safety Systems Commissioning
- 11:45 - 1:00 pm **Vendor Luncheon - Location: Lexington Ball Room**
- 1:00 - 4:00 pm **Vendor Show - Location: Congaree Ball Room**

Friday, May 10

Location: Lexington Ball Room

- 8:30 - 9:00 am **Breakfast**
- 9:00 - 9:30 am **SC DHEC Update**
 Todd McAlhany | Director | SC DHEC
 After successfully completing this training course, attendees will be able to ensure that their facility is up to date on new codes, standards & regulations.
- 9:30 - 10:00 am **SCHA Update**
- 10:00 - 10:30 am **Business Meeting**
- 10:30 - 11:00 am **Roundtable**
- 11:00 am **Adjourn**

General Information:

LOCATION

Doubletree by Hilton, 2100 Bush River Rd., Columbia, SC 29210

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 29th. 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 Sue Alvarez by phone at 803-609-2908 or via email at salverz@scha.org.

Sporting Clay Shoot

*** If you plan to participate in the sporting clay shoot 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 sporting clay event will be held at Palmetto State Armory Outdoor Shooting Complex located at 1201 Redmond Mill Rd, Swansea, SC 29160. Please arrive at 12:00 pm. Lunch will be provided prior to the event..

HOTEL INFORMATION

[Click here](#) to book your hotel reservations. Room rate is \$129++ a night. Cutoff date for reservations is April 7th, 2024.

Scholarships:

We have set a total budget for scholarships this year at \$5000 with 10 total @ \$500 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 \$500 scholarships will be first come first serve - please email Kim, 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. 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.

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

Paul D. Anderson, QFDI, CFDAI, DHC, QFDT, DHT, CFL

Owner of Revelation Door Inspections. A national fire door inspection company.

Qualified Fire Door Inspector (QFDI)

Certified Fire Door Assembly Inspector (CFDAI)

Door Hardware Consultant (DHC)

Qualified Fire Door Technician (QFDT)

Door Hardware Technician (DHT)

Certified Facility Locksmith (CFL)

Field Inspector for QAI Testing Laboratory

Marine Corps Veteran

25+ Years in the Door & Hardware Industry

Volunteer Instructor for the Door Opening Industry Training Group

Member of International Code Council (ICC)

Member of the National Fire Protection Agency (NFPA)

Education Advocate for the Door Security and Safety Foundation

Alex Harwell

I started my career by enlisting into the US Navy at age 18, I spent a decade in the Navy as a Nuclear Machinist's Mate learning the ropes of engineering systems operation, maintenance, and troubleshooting. While serving I earned my bachelor's degree from Old Dominion University in Norfolk, VA in Engineering Technology to build my professional career following the Navy. I started my engineering career with the State of NC, working for DHSR, the North Carolina healthcare licensing agency as an engineering plan reviewer and inspector for five years. It was there that I learned about the healthcare industry, healthcare engineering regulatory requirements, and the landscape of hospitals, architects, engineers, and contractors. In 2012 I joined Dewberry as a Construction Administrator and have spent the past ten years focused on the consulting side of healthcare engineering. I have recently earned my Fire Protection PE, am an ASHE Certified Healthcare Facility Manager, , Certified Healthcare Constructor, Senior ASHE member, and serve Dewberry as the healthcare market segment leader for the Southeast.

Christina Smith

Christina has more than 17 years of healthcare experience and has dedicated her architectural career to improving healthcare environments emphasizing collaborative and empathetic design. Her diverse portfolio has focused on hospital and medical office building renovations, new construction projects, and master plans which seek to promote overall health and well-being. Christina is a trusted advisor to our healthcare clients.

Helen Byce

Helen brings over 19 years of experience to LS3P, and her greatest strengths as an architect involve the planning and design of healthcare projects. These duties include all phases of the design process, from pre-design to construction administration. She enjoys the challenges that are inherent in health facility design and developing solutions to the complex problems that hospitals often face. Assisting the client to determine the best path to satisfy the most needs in the most affordable and efficient way is one of her greatest joys as an architect.

Devin J Hugie, MBA, FASHE, CHFM, CHC, CHSP-FSM, CHEP, CLSS-HC, CEPSS-HC

Devin is currently the CEO and a Reliability Coach with Forum Reliability. Previously Devin was the Executive Director of Support Services for Children's Hospital of Orange County (CHOC). Prior to CHOC he was the Executive Director of Facilities and Support Services for Providence Little Company of Mary Torrance and San Pedro.

Devin recently completed his second term as the American Society for Healthcare Engineers (ASHE) region 9 Director. He continues to serve on committees for ASHE and the American Hospital Association (AHA) such as the Advocacy Committee and the Asset Management and Reliability committee. He is also a contributing author to the Asset Management and Reliability Handbook released in the fall of 2022.

Devin has spent many years serving national and state healthcare chapters. He spent over 10 years on the board of directors of the California Society for healthcare Engineers (CSHE) along with supporting the California Hospital Association (CHA) with other Committee and Advocacy efforts. Culminating in completing his term as President and CEO in 2019

Devin is recognized by the American Hospital Association (AHA) as a Certified Healthcare Facility Manager (CHFM) and a Certified Healthcare Constructor (CHC); Additionally, in 2012 he received his Senior status (SASHE) and in 2018 received his Fellow status (FASHE). Devin received the outstanding member award from the California Society of Healthcare Engineers (CSHE) in 2011 and the President's award for outstanding leadership in 2013, and the Distinguished member award in 2014. Additionally, Devin is recognized by the Board of Certified Healthcare Safety Management as a Certified Healthcare Safety Professional Senior Status (CHSP) with the Fire Safety Management endorsement (FSM) and is a Certified Healthcare Emergency professional (CHEP). Devin also is a Senior Certified Healthcare Mechanic, and he has numerous professional licenses such as Universal 608, Unlimited L.A Steam License, and is BOC Level I and II certifications. Devin is also a Certified Life Safety Specialist (CLSS-HC) and a Certified Emergency Power System Specialist (CEPSS-HC) with the National Fire Protection Association (NFPA) and participated in the exam development for both certifications. Devin is a Certified Reliability Leader (CRL) with the Association of Asset Professional (AAMP)

Devin is an active member in good standing with associations such as the California Society of Healthcare Engineers (CSHE), American Society for Healthcare Engineering (ASHE), National Fire Protection Association (NFPA) Healthcare Section, International Association of Healthcare Safety and Security (IAHSS), Association of Asset Management Professionals (AAMP).

Shay Rankhorn:

Shay Rankhorn is a seasoned and strategically minded leader with an impressive track record spanning over 25 years. His expertise encompasses a comprehensive range of facilities, design, and construction management roles, where he has successfully overseen divisions in facilities management, engineering, design, construction, infrastructure, and real estate projects. Shay's role as a mock surveyor, ensuring compliance with healthcare facilities' Joint Commission, OSHA, EPA, and DOT standards, demonstrates his meticulous attention to detail and commitment to excellence. Throughout his career, Shay has collaborated with a distinguished clientele, including Hilton, Metro Nashville Davidson County, HealthTrust, Columbia, HCA, LifePoint, Triad, CHS, Amsurg, Surgery Partners, University of Maryland Medical System, Ballad Health, Baptist Health, Norton Healthcare, Appalachian Regional Healthcare, and Quorum Health. He is a partner at Facilities Diagnostics, Shay takes charge of daily operations, strategic planning, and marketing, while overseeing a portfolio of more than 100 projects. His role involves commissioning services, facility condition assessments, mock surveys, and master planning initiatives, all of which contribute to the success of the clients he serves in healthcare as well as other markets. Shay's commitment to knowledge dissemination is evident through his engagements as a national, regional, and local speaker, as well as a published author in prominent magazines. Notably, he has held significant leadership positions, including the past presidency of ASHE and membership in the ASHRAE Committee 9.1 on Healthcare Standards, highlighting his dedication to professional advancement and industry standards. Previously, Shay held the role of V.P. of Facilities and Construction Management for Quorum Health, where he managed various departments and capital planning for 22 hospitals. His responsibilities extended from project inception to design, capital planning, project management, daily operations, and survey preparedness. Beyond his career, Shay finds fulfillment in his family life, having been happily married to Brenda for 36 years. With five children and six grandchildren (so far), Shay's dedication to both his professional and personal spheres is a testament to his multifaceted approach to success.