



Moving The Needle

Annual Conference & Golf Tournament



May 8-11, 2023

THE HOTEL ROANOKE & CONFERENCE CENTER
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Introducing the 2023 Board of Directors



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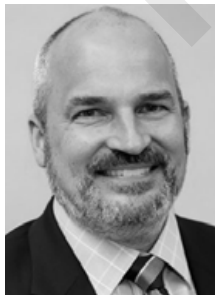
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Welcome

On behalf of the 2023 Board of Directors, it is our great pleasure to welcome you to the **13th Annual Conference and Golf Tournament** of the Virginia Society of Healthcare Engineers (VSHE). Our Annual Conference is a premier conference in healthcare facilities engineering and has been strategically held in different locations across the Commonwealth, including Williamsburg and Norfolk. For the 2nd year in a row, we get to meet in beautiful Roanoke.

Expanding on last year's conference, the 2023 Conference theme is "**Community Impact – Moving the Needle.**" In today's world, there is an increased focus on understanding the big picture, global impacts. But it's equally important to remember how our efforts directly impact the specific communities in which we serve. Healthcare facilities are some of the most complicated and energy intensive facilities to operate, and operational excellence is paramount. Improving the environment of care, focusing on safety, increasing facility reliability, reducing energy consumption, and decarbonization are all examples of operational excellence that are moving the needle towards better patient care. Under the able leadership of **Lee Harrelson** (Conference Chair), and **Dylan Henderson** (Conference Co-Chair, Golf), the organizing committee has developed an exciting and comprehensive program of topics. The committee has also successfully recruited an all-star roster of keynote speakers, including **Dr. Michael Friedlander** of the Fralin Biomedical Research Institute at VTC, **Jim Woody** of Perkins+Will, and a stellar panel of Healthcare Executives from **Centra Health, Mercy Health, and Atrium Health**.

It is our hope that you will take this opportunity to network, meet new people, and challenge yourself to think critically about the impact you have in the many communities you serve. There will be plenty of time outside the sessions to explore the exhibit hall and discover the beautiful grounds of The Hotel Roanoke.

Again, welcome to VSHE's 13th Annual Conference and Golf Tournament. We appreciate your participation and hope you will find the next few days stimulating and rewarding.



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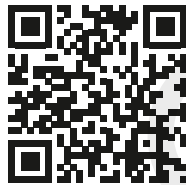
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Share

your conference experience and pictures with the hashtags:

#VSHEAnnualConference **#CommunityImpact**
#MovingTheNeedle

SAVE THE DATE!

2023 Fall Seminar - Wednesday, October 4

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For details about and to register for upcoming events,
information on becoming a member and more
visit our website at [VSHE.org](https://www.VSHE.org)



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Conference Schedule at-a-Glance

Monday, May 8, 2023 (ASHE ICRA 2.0 Train-The-Trainer)		
7:00- 8:00am	Registration and Continental Breakfast	Shenandoah Foyer
8:00- 4:00pm	ICRA 2.0 Train-The-Trainer	Pocahontas
10:00am & 2:15pm	Breaks	Hotel Foyer
12:00- 1:00pm	Lunch	Regency Overlook Restaurant
Tuesday, May 9, 2023		
8:00 - 11:00am	Exhibitor Set-Up	Roanoke Ballroom
9:00am- 4:00pm	Golf Tournament Registration 9:00- 11:00am Shotgun 11:00am (until last team sinks last putt)	Roanoke Country Club
11:30am- 5:30pm	Registration Desk Open	Roanoke Ballroom Foyer
12:00 - 4:00pm	Exhibitor Check-In / Set-Up	Roanoke Ballroom
5:00- 6:00pm	VSHE Board of Directors Meeting	Appalachian
6:00- 8:00pm	Conference Welcome & Networking Reception Golf Tournament Awards	Roanoke Ballroom
Wednesday, May 10, 2023		
7:00- 10:00am	Registration Desk Open	Roanoke Ballroom Foyer
7:00- 8:30am	Breakfast Buffet/Tradeshow	
8:30- 9:00am	VSHE OPENING PLENARY Welcome Message – VSHE Leadership ASHE Updates - Michael A. Hatton, ASHE Region 7 (<i>Memorial Hermann</i>) VSHE District Updates – District Chairs	Crystal Ballroom
9:00- 10:00am	OPENING KEYNOTE Dr. Michael Friedlander <i>Fralin Biomedical Research Institute at VTC</i>	Crystal Ballroom
10:00- 11:00am	Vendor Sponsored Break/Tradeshow	
11:00am- 12:00pm	EDU1: Resiliency Design in Healthcare Timothy Krawetz, John Rimbey, David Wright	Buck Mountain
	EDU 2: Community Impact: Envisioning and Achieving Historic SWaM Spend at the UVA Health University Hospital Expansion John Calvin, Mark Cartwright (<i>UVA Health</i>), Junior Burr, Devon Henry	Mill Mountain
	EDU 3: Virginia's 1st Freestanding Psychiatric ED - Making An Impact for Behavioral Health Chris Yago, Stacey Johnson (<i>Riverside Behavioral Health</i>), Joshua Hollingsworth (<i>Riverside Behavioral Health</i>), Brian Giebink	Monroe
	EDU4: Maintaining Rural Healthcare Access Through Facility Cost Control & Flexibility Dave Sheedy, Aaron Anderson, Laura Rackley	Crystal Ballroom
12:00- 2:00pm	Registration Desk Open	Roanoke Ballroom Foyer
12:00- 2:45pm	Exhibit Hall Opens 11:30am Lunch Served 12:00pm	Roanoke Ballroom
1:00 - 2:00pm	SPECIAL SESSION Alignment of Initial Construction Costs with Operation and Maintenance Budgets James Douglas Woody, et. al	Crystal Ballroom

Wednesday, May 10, 2023

2:45- 3:45pm	EDU 5: instant Energy Savings Through Retro-Commissioning Sam Claxton and Jonathan Hunley (<i>Bon Secours Mercy Health</i>)	Buck Mountain
	EDU 6: Understanding Valet and Drop-off/Pick-up Zones and Their Impact on the Patient Experience During Design Beth Bryan	Mill Mountain
	EDU 7: ASHE Advocacy Initiatives Lennon Peake	Monroe
	EDU 8: Utilizing Conditions of Satisfaction to Create Alignment and Drive Successful Project Outcomes Marshall Scott, Josh Young, Beth Bankston (<i>Carilion Clinic</i>), Mark Pace	Crystal Ballroom
3:45- 4:00pm	Vendor Sponsored Break	
4:00- 5:00pm	EDU 9: Battery Energy Storage for Healthcare Facility Electrification and Decarbonization Clift Briscoe and Sean Curry	Buck Mountain
	EDU 10: Elevating the Status Quo: A Case Study in Finding Opportunity for Evidence-Based Design and Prefabrication Katherine Scott, Sean Murphy, Roger Wilkerson	Mill Mountain
	EDU 11: Plugging the Leaks: A Present No One Wanted. Addressing Sprinkler Line Breaks in Hospitals (<i>Carilion Clinic</i>) Scott Blakenship, Daniel Rakes, Craig Bryant, Tammy Turpin, Brian Eads, Jay Smith	Monroe
	EDU 12: Tackling MEP Infrastructure Upgrades - One Play at a Time George Baker (<i>WellSpan Health</i>) and Karen Gleba	Crystal Ballroom
4:30- 5:30pm	Registration Desk Open	Roanoke Ballroom Foyer
5:00- 7:00pm	Reception/Tradeshow ASHE Scholarship and Award Presentations, Prize Drawings 5:45-6:30pm	Roanoke Ballroom

Thursday, May 11, 2023

7:30- 8:30am	Registration Desk Open	Roanoke Ballroom Foyer
7:30- 9:00am	Breakfast Buffet/Tradeshow	Roanoke Ballroom
9:30- 10:30am	EDU 13: Compounding Pharmacy HVAC Controls Design Requirements and Sequence of Operation Matt Costick	Buck Mountain
	EDU 14: Healthcare Design and Decarbonization: Can The Coexist Shannon Kaplan	Mill Mountain
	EDU 15: Calculating a Healthcare System's Carbon Footprint (<i>Carilion Clinic</i>) Sara Wohlford and Marina Sotelo	Monroe
	EDU 16: Keeping Docs Cool, Dry and Happy in the OR ... Doing it Efficiently and Sustainably David Schurk	Crystal Ballroom
11:00am- 1:00pm	CLOSING PLENARY/LUNCH Executive Roundtable Jonathan Hunley (<i>Bon Secours Mercy Health</i>), Michael Roberts (<i>Atrium Health</i>), Roger Bradley (<i>Centra Health</i>), Lee Harrelson <i>Boxed Lunches Provided</i>	Crystal Ballroom

Keynotes

VSHE Opening Plenary

ASHE Updates and Initiatives

WEDNESDAY, MAY 10TH | 8:30 – 9:00 AM



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MICHAEL A. HATTON

MBA, CHFM, FASHE

Vice President, Memorial Hermann
2024 President-Elect Candidate, ASHE

Michael A. Hatton, MBA, CHFM, FASHE, Vice President, manages “facilities” and construction from a corporate level for Memorial Hermann in Houston, Texas. In the previous 48 months, Mike has delivered 6 major hospital expansions and Greenfield projects in the Houston suburbs with a total capital cost approaching \$1.65 billion. Due to his leadership and continuous improvement focus, Memorial Hermann’s 12+ million square foot Real Estate Portfolio has achieved a 39% decrease in emissions per square foot (SqFt) while implementing proven technologies and maintenance strategies that provide life-cycle cost reductions in operating expenses across the portfolio.

Under his leadership, Memorial Hermann has driven over \$174 million to the bottom line as a direct result of energy benchmarking and building tuning efforts both internally, via ASHE’s Energy to Care initiatives, and via EPA’s Energy Star program. Memorial Hermann has been recognized as an ‘Energy Star Partner of the Year’ in 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, and 2023.

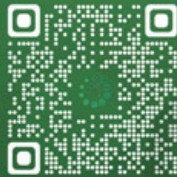
Memorial Hermann currently has 10 Energy Star labeled (EPA) hospitals; 2 of which are currently ranked at an Energy Star 100 (nirvana) rating, 2 others at Energy Star 99, and 6 others above the 90th percentile! Memorial Hermann has been awarded the Energy Star Label for its buildings on 123 occasions which demonstrates its Performance Improvement focus. The American Hospital Association’s ASHE has recognized Memorial Hermann for its environmental and sustainability leadership via its Energy To Care award and for its ‘Significant Energy Efficiency Achievements’ on approximately 55 occasions for its Hospitals and Medical Office Buildings.

Mike was instrumental with promoting the very first national benchmarking competition between ASHE chapters for energy efficiency via the Texas (TAHFM) v Ohio Energy Challenge – won, of course, by TAHFM, and as recognized at the EPA’s annual Energy Star awards banquet in Washington, D.C.

Even more important, Mike is very active in our industry focusing on hospital Facilities infrastructure, improving operations/maintenance outcomes, healthcare construction best practices, energy management and sustainability improvements via ASHE and other industry trade groups. Mike is ASHE’s Region 7 Advisory Board Member for 2023 and a candidate for ASHE President-Elect 2024.



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Keynotes

Opening Keynote

WEDNESDAY, MAY 10TH | 9:00 - 10:00 AM



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MICHAEL FRIEDLANDER, PHD

Vice President for Health Sciences and Technology
Fralin Biomedical Research Institute at VTC

Michael Friedlander is the Vice President for Health Sciences and Technology at Virginia Tech where he also serves as the founding Executive Director of the Fralin Biomedical Research Institute at VTC and as senior Dean for Research at the VTC School of Medicine. He has built the FBRI's research programs to over \$140M in current grant and contract value with 38 research team faculty leaders and over 400 staff and students. He has served as the principal investigator on multiple individual and team-based program research grants on brain processes that mediate vision, developmental plasticity and traumatic brain injury. Friedlander has held two endowed professor positions – as the Evelyn McKnight professor of Learning and Memory in Aging at the University of Alabama at Birmingham (UAB) School of Medicine and as the Wilhelmina Robertson professor of neuroscience at Baylor College of Medicine (BCM) in Houston. Prior to joining Virginia Tech, Friedlander served as the founding Director of the Neurobiology Research Center, founding Chair of the Department of Neurobiology and Director of the Civitan International Research Center for Intellectual Disabilities at UAB and as Chair of the Department of Neuroscience and Director of Neuroscience Initiatives at BCM.

In addition to his university leadership positions, Friedlander is the founding President of the Association of Medical School Neuroscience Department Chairs, he has served as Chair of the Council of Academic Societies of the Association of American Medical Colleges (AAMC), representing over 90 medical and scientific societies, on the Howard Hughes Medical Institute - AAMC joint task force on the Scientific Foundations of Future Physicians, and as an AAMC Distinguished Service Member. He served as Chair of the National Association of Intellectual Disabilities Research Centers, as President of the Society for Experimental Biology and Medicine (EBM) where he was also elected to the inaugural class of EBM Fellows and he is an elected Fellow of the American Association for the Advancement of Science. He currently serves on multiple boards including the Virginia Early Childhood Foundation Board, the Children's National Hospital Research, Education and Innovation Board, the Valleys Innovation Council, the Virginia Bio Academic Board, the Virginia Biosciences Health Research Corporation (Catalyst) Board, and is a member of the Go Virginia Region 2 Council.

Friedlander is a recipient of an Alfred P. Sloan Foundation Fellowship in Neuroscience, an NIH Fogarty Center Senior International Research Fellowship to the Australian National University, a Lucille Markey Foundation Center Award, a W.M. Keck Foundation Center Award, the American College of Physicians' Menninger Award for Mental Health Research, the University of Illinois Distinguished Alumnus Award and the Distinguished Scientist Award from the Society of Experimental Biology and Medicine. He has held visiting Professorships at Oxford University, the Australian National University and the U. of Paris.

Friedlander completed a BS in Biology at Florida State University, a PhD in Physiology and Biophysics at the U. of Illinois and postdoctoral training at UVA. He was born and spent his childhood in Miami. He and his wife Sandra who has retired from a career in telecommunications with BellSouth Corp. have 5 daughters and 9 grandchildren and a rescue pup named Baylor.

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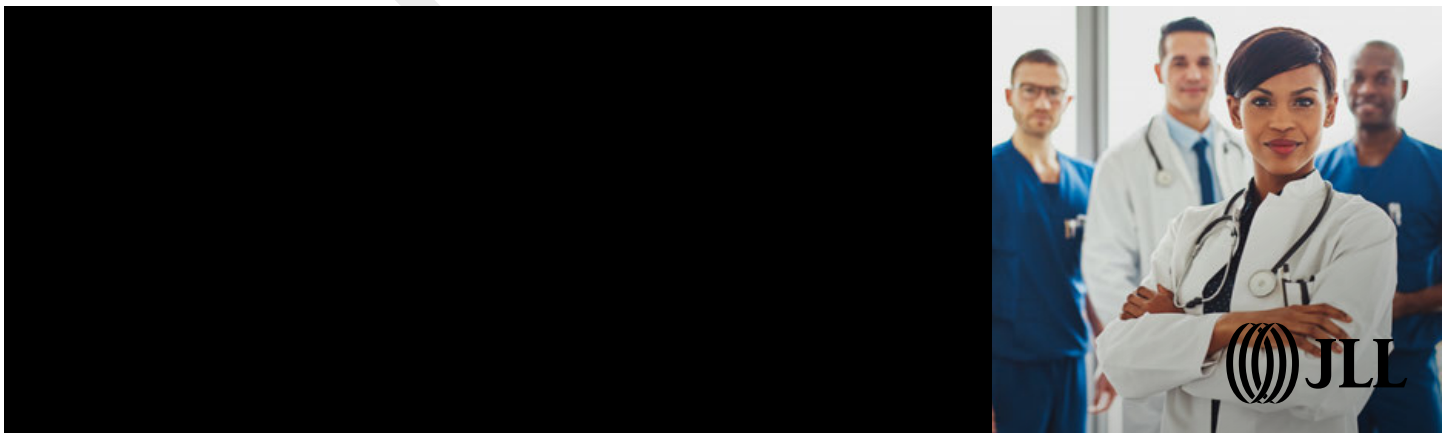
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Keynotes

Special Session

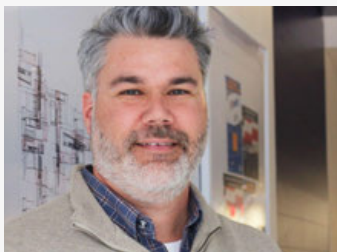
Alignment of Initial Construction Costs with Operation and Maintenance Budgets

WEDNESDAY, MAY 10TH | 1:00 – 2:00 PM

Often when Designers are brought onto a project, the owner has already made some initial cost decisions that end up costing them even more money in the long run – either through poor efficiency or cutting corners that then require rework later on.

What needs to happen to change this approach? How can we as architects, engineers and vendors help our Clients make informed decisions up front for the betterment of the entire project and Team.

This roundtable discussion with representatives from Architecture, Engineering, Construction, and Facilities Management to discuss how to begin to align first construction costs with operations and maintenance budgets.



JAMES DOUGLAS WOODY MODERATOR

AIA, LEED® AP BD+C

Senior Project Architect, Associate Principal, Perkins&Will

In the past decade, Jim has focused almost exclusively on the construction administration of healthcare facilities in this region. He provides technical oversight of the design and construction documents and leads the construction phase for complex, multi-phased healthcare projects. He believes in the One Team approach and fosters an environment of trust and collaboration on every project.

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Session Descriptions

Resiliency Design in Healthcare

WEDNESDAY, MAY 10TH | 11:00 AM – 12:00 PM

Climate change is causing more extreme weather events; droughts, extreme temperature changes, and extreme storms. Health care organizations are a vital partner with communities to ensure the communities resiliency. As essential services, these organizations must evaluate their facilities, existing and new, determine their risks and exposure; and work with their local community leadership to plan for these events.

PROOF



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TIMOTHY KRAWETZ

PE, LEED AP

Senior Principal, Syska Hennessy Group

Timothy E. Krawetz, PE, LEED AP, as a healthcare practice area leader and senior principal in Syska Hennessy Group's New York office, leads a multi-discipline, multi-office team of over 100 professionals throughout the firm both nationally and internationally. He brings more than 30 years of experience in the planning, design and peer review of hospital and laboratory projects. Mr. Krawetz is passionate about bringing the best engineering solutions to clients so that they can deliver the highest-quality patient care and improve patient outcomes. A graduate of Manhattan College, he holds a BS in mechanical engineering. Mr. Krawetz recently served on the NYC Local Law 97 Hospital Working Group focused on the decarbonization of hospitals within the city.



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JOHN RIMBEY

PE, RCDD, LEED AP BD+C

Associate Partner, Syska Hennessy Group

John Rimbey, PE, RCDD, LEED AP BD+C, has over 25 years of experience in the design of electrical systems, as well as several years of experience in project management of mission critical facilities such as data centers and trading floors for telecommunications, commercial, financial, industrial, educational, retail, and healthcare institutions. He is actively involved with various mission critical facility clients, and working with them to increase reliability and integrate new technology with their businesses.



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DAVID E. WRIGHT

PE

Senior Healthcare Design Leader, Syska Hennessy Group

David E. Wright, PE has over 33 years of experience in the engineering design and construction administration of electrical systems for healthcare, commercial, hotel, academic, and government projects. David started in industry working nights, weekends and summers for his family's electrical contracting business in high school and college. He then spent 10 years working for a major metropolitan electrical utility company. David has been responsible as PM and lead electrical engineer on a number of projects including hospitals, medical office buildings, laboratories, hotels, retail stores and government facilities. His knowledge includes power distribution, emergency generation, lighting, fire alarm, life safety, and advanced energy conservation practices

Session Descriptions

Community Impact: Envisioning and Achieving Historic SWaM Spend at the UVA Health University Hospital Expansion

WEDNESDAY, MAY 10TH | 11:00 AM – 12:00 PM

The UVA Health University Hospital Expansion project in Charlottesville, Virginia achieved one of the largest small, women-owned and minority-owned (SWaM) business spends in the state's history—\$130 million across 192 SWaM firms, which represents 45 percent of the project's total construction cost.

During this panel, Skanska, UVA Health, and SWaM firms Team Henry and Canterbury Enterprises will discuss successful workforce development strategies that can be applied to other projects in today's tight labor market. Panelists will share their perspectives on how training programs, partnerships, dedicated resources, bid package strategies, and formal and informal connections led to a positive economic impact.



JOHN CALVIN

Vice President, Project Executive, Skanska USA

John Calvin is a Vice President at Skanska where he began his career in the construction industry over 30 years ago. John provides hands-on management for his project teams. He is detailed oriented and understands the importance of building a diverse multi-disciplinary team that leverages individual strengths while collaborating to deliver high-quality projects. He is also an advocate for SWaM firms and continually strives to increase bid opportunities on his projects, including the UVA Health University Hospital Expansion. John holds a Bachelor of Science in Civil Engineering from North Carolina State University..

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MARK CARTWRIGHT

DBA

Director, Supplier Diversity, UVA Health

Mark Cartwright is the Director of Supplier Diversity at UVA Health. In his role, Mark excels at promoting economic prosperity and cultural equity by fostering diversity and inclusion in the supply chain and the workplace. He is committed to building relationships, evaluating opportunities and increasing procurement with small, minority and women-owned businesses. Mark's career combines his MBA education with over 15 years in strategic and hands-on leadership roles in the commercial banking and credit union industries, in addition to 10 years in supplier diversity.



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JUNIOR BURR

CEO & President, Canterbury Enterprises

A Virginia Native, Junior Burr's 26-year construction management career has focused primarily on healthcare and higher education projects throughout the state. His company, Canterbury Enterprises, is considered one of the foremost experts in the region's construction industry. His clients include UVA Health, Virginia Museum of Fine Arts, Federal Reserve Bank, Dominion Energy, Capital One, Department of General Services, and VCU Health System. Junior graduated from Longwood University with a Bachelor of Science in Business Management. He currently serves on the board for the Metropolitan Business League, Venture Richmond, Chamber RVA and Virginia Housing.



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DEVON HENRY

CEO & President, Team Henry Enterprises

Devon Henry is the CEO & President of Team Henry Enterprises, a nationally recognized contracting enterprise based in Richmond, Virginia. Devon has been honored as "The Entrepreneur of the Year" by several organizations, such as The Virginia Minority Supplier Development Council, The U.S. Small Business Administration and most recently, The Metropolitan Business League. Devon received his Bachelor of Science from Norfolk State University and Master of Science in Environmental Management from The University of Maryland. Team Henry was contracted to build a new stair tower and all of the concrete equipment pads on the UVA Health University Hospital Expansion project.

Session Descriptions

Virginia's 1st Freestanding Psychiatric ED Making an Impact for Behavioral Health

WEDNESDAY, MAY 10TH | 11:00 AM – 12:00 PM

To meet the growing demand for emergency psychiatric care in Virginia, Riverside Health System (RHS) is building the first dedicated psychiatric emergency department in Virginia that will provide a much-needed resource for the local Hampton Roads community and beyond. The new unit will shift patients in crisis from local critical care hospital emergency departments to an emergency department that was developed with empathy at the forefront specifically to meet the patients specific care needs. The nearly 13,000 SF unit is planned to repurpose some existing space within the hospital with a new addition to expand program area and to create a designated entrance, waiting, and staff space for the psychiatric emergency department. The unit connects to the hospital's existing circulation spine for discreet and efficient patient transfers from the Psych ED to inpatient care. The Psych ED will treat adult and pediatric patients in crisis in a calming and therapeutic setting. The new ED will provide secure screening and triage, space for individual and group treatment, and private treatment rooms for acute patients. The separate units for adults and pediatric patients will have a shared support core enabling the care team to efficiently flex between units and promote collaboration among staff.

The new psych ED demonstrates Riverside's commitment to its patients, their community, and beyond and is making a major impact in the Commonwealth for others to follow. During this session, the Riverside Executive Team and design team will engage in a conversation covering a new operational care model, unique planning and design requirements, and the anticipated impact to the community and health system. The facility is currently under construction and is expected to open later this year.



✉ Chris.Yago@hdrinc.com

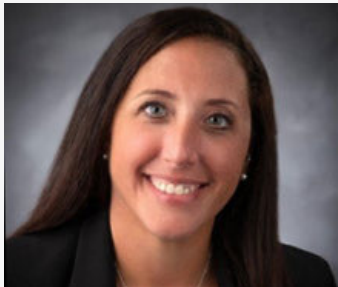
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CHRISTOPHER C. YAGO, SR.

RA, CDT, NCARB, LEED BD+C

Senior Project Manager, HDR

Mr. Yago is a licensed architect with over twenty-five years of professional experience working on a wide range of complex, multi-disciplinary project types including significant experience on healthcare projects. Mr. Yago has a comprehensive technical background and maintains professional credentials from the National Council of Architectural Registration Board (NCARB), CSI Construction Documents Technology (CDT), and LEED AP Building Design + Construction (LEED AP BD+C). He has worked on numerous projects that have received awards for design excellence from local and state chapters of the American Institute of Architects.



STACEY JOHNSON

LCSW, MBA

Hospital President/VP, Riverside Behavioral Health Center

Ms. Johnson is a Licensed Clinical Social Worker with over 15 years of experience in the Behavioral Health field with prominent authority on the development and operation of Behavioral Health and Addiction Treatment Programs. She holds an MBA but started her career as a Social Worker, which provides a unique perspective for her current role. She is passionate about meeting all individuals Mental and Behavioral Health needs and reducing stigma associated with mental illness. She works to break down barriers to treatment and open doors to discuss mental health in a positive way while providing innovative and community centered treatment.

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JOSHUA HOLLINGSWORTH

CLSS-HC

Director of Facilities and EVS, Riverside Behavioral Health Center

Mr. Hollingsworth is the Director of Facilities and Environmental Services at Riverside Behavioral Health Center. In this role, he is overseeing the construction and development of Virginia's first dedicated Psychiatric Emergency Department as well as several other enabling construction projects at RBHC to improve infrastructure, energy efficiency, cosmetics, and most importantly a safe healing environment for all. He brings a wealth of hands-on skills that were acquired as a Life Safety Engineer/Surveyor and Deputy Fire Marshal for Virginia and has made impactful achievements in his community serving as an EMT, Fire Service Instructor, Emergency Management, and civilian response training.

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BRIAN GIEBINK

Behavioral Health Principal, HDR

Mr. Giebink leads HDR's behavioral health practice and has introduced current research and design trends to improve patient satisfaction and staff retention for clients around the world. As an architect, he develops cost-effective, research-based solutions that balance competing needs across multiple service lines to expand behavioral health care. Brian's work spans nearly all behavioral health service lines including inpatient, outpatient, community, and crisis care in both new construction and within existing infrastructure. He is an active member of the FGI Health Guidelines Revision Committee focused on behavioral health and has received national recognition for his contributions to the field.

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Session Descriptions

Maintaining Rural Healthcare Access Through Facility Cost Control & Flexibility

WEDNESDAY, MAY 10TH | 11:00 AM – 12:00 PM

Planning for a rural community's health care needs for the next 50 years requires a comprehensive and collaborative approach with a mindset of cost control and flexibility. One in five Americans lives in rural communities where they experience higher mortality, poor health outcomes, and poverty. With a steep rise in CAH closures in 2020, rural America is experiencing a disproportionate decline in accessible care. A new health care environment is needed to better serve rural America—a model that positions hospitals to be resilient, sustainable and leverage the financial benefits of flex strategies.



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DAVID M. SHEEDY

PE, CDT

Healthcare Team Leader, Principal, Kahler Slater

With a background in construction, Dave brings a wealth of industry experience and knowledge to our clients. Passionate about project leadership with a strong understanding of Lean design strategies, Dave understands our clients' diverse perspectives, positioning him to best guide the team to customized yet cost-effective design solutions.

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AARON ANDERSON

PE, LEED AP

Associate Principal, Specialized Engineering Solutions

Aaron has been a member of the SES Team for more than 13 years and currently serves as an Associate Principal responsible for managing clients, overseeing projects, and leading a team of engineers. He has established long term client relationships by managing successful projects, serving as a trusted partner to clients and architects, and providing purposeful design solutions. Throughout his career, Aaron has worked on a wide variety of healthcare projects as a Lead Mechanical Engineer, Project Manager and Lead Principal. These roles have allowed him extensive experience designing and managing projects from conception through commissioning.

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LAURA RACKLEY

CHFP

Senior Analyst - Healthcare - Advisory Services, Kahler Slater

Laura is an expert at embracing data and analytics to forge a path forward. She has advanced skills in data-mining, review, analysis, and interpretation of financial data for communicating results to senior management. Laura has a proven success record in developing and maintaining operational models that will drive budgeting and planning efforts in accordance with strategic goals. Her expert knowledge of managed care reimbursement, with duties such as complex analysis of federal payer reimbursement, costing, gross and net revenue budgets, statistical and financial modeling guide clients to data driven decisions.

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Session Descriptions


Instant Energy Savings Through Retro-Commissioning

WEDNESDAY, MAY 10TH | 2:45 PM – 3:45 PM

As hospitals apportion their funds to provide the best environment for their patients and staff, facility systems are often not the top priority. With these systems not operating at their optimum levels, facilities staff make “temporary” adjustments to fulfill specific requests.

This leaves hospitals with control sequences that were never meant to exist. This can mean too many air changes in spaces to compensate for pressure issues, a low delta T on the campus chilled water system, and many more. Not only does this create low-performing hospitals (from an energy usage perspective), but it increases operation costs that detract from other initiatives. Through this case study, attendees will be able to evaluate when retro-commissioning is the correct solution for their project, how it can help optimize their facility systems, and how energy savings can lead to a reduction in utility bills.



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JONATHAN HUNLEY

CHRM, CHC, CHOP, CHEPP, LEED GA

Director Plant Operations/Facility Management, Bon Secours Mercy Health

Jon Hunley is a healthcare professional with over 15 years in leadership, managing Healthcare system operations spanning 15 Million+ square feet of real estate. He has proven skills instructing and developing personnel, leading and motivating teams, and is committed to high work ethics and to attainment of organizational goals and objectives. Jon is experienced in Healthcare PDC, Facility and Plant Operations, and Infrastructure CAPEX Planning. He is a progressive system and corporate level senior leader who is well versed in solving complex matters with creative solutions.



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SAM CLAXTON

PE, FPE

Partner, CMTA, Inc.

Sam Claxton, PE, FPE is a Licensed Professional Engineer and a Licensed Fire Protection Engineer. He is a graduate of the University of Tennessee where he earned his Bachelor of Science in Mechanical Engineering. He has over 20 years of experience designing energy efficient HVAC systems, plumbing systems and fire protection systems. His experience encompasses a wide range of facilities including higher education, health care, athletics, research facilities, convention centers, resorts and office buildings. He is knowledgeable about energy models and the effect of HVAC systems on building overall performance.

Understanding Valet Drop-Off/Pick-up Zones and Their Impact on the Patient Experience During Design

WEDNESDAY, MAY 10TH | 2:45 PM – 3:45 PM

Valet and drop-off/pick up zones are often some of the busiest places on a healthcare campus. With the use of the micro simulation software, VISSIM, we can analyze these zones. During this presentation will walk through several case studies, including VCU Health's new Adult Outpatient Pavilion to understand how these models can inform the site design early so that the patient arrival/departure process is as easy as possible. We will talk through the impact of physical and operational changes as well as best practices and average dwell times. By analyzing the results of the simulation, we will understand where there could be potential choke points in the design and talk about how the simulations can be used to get user buy in from interested user groups so that they are comfortable with the impact to the patient experience before construction. The presentation will also talk about the benefits/costs to analyzing just the project site versus also analyzing the adjacent roadway network.



BETH BRYAN

PE, PTOE, PT, STP

Principal, Walter P Moore

Beth is a 15-year veteran of the parking industry. With a focusing primarily on healthcare and mixed-use facilities, guiding teams to create efficient and functional designs specific to each project's needs and goals. Ensuring that the parking solution not only fits their needs, but that it is also easy to operate and maintain. She believes that parking solutions should be easy to access and navigate for all users regardless of ability or mode of transportation.

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Session Descriptions

ASHE Advocacy Initiatives

WEDNESDAY, MAY 10TH | 2:45 PM – 3:45 PM

Health care facility managers are continually being asked to do more with limited resources. The information contained in this presentation will detail tools and code interpretations provided by ASHE to assist facility managers in maintaining their facilities and as well as code compliance. Attendees of the session will be able to better use the resources which are offered by ASHE.



LENNON PEAKE

PE, FASHE

Executive Vice President, Koffel Compliance

Lennon Peake is the Executive Vice President at Koffel Associates & Koffel Compliance, fire protection engineering and code consulting firms head quartered in Columbia, Maryland. He has extensive experience in health care occupancy code requirements and CMS and Joint Commission licensure and accreditation surveys. He serves on the ASHE Regulatory Affairs Committee and Member Tools Task Force, is subject matter expert for Just Ask ASHE and serves on several NFPA technical committees including the NFPA 101 Technical Committee on Health Care Occupancies.

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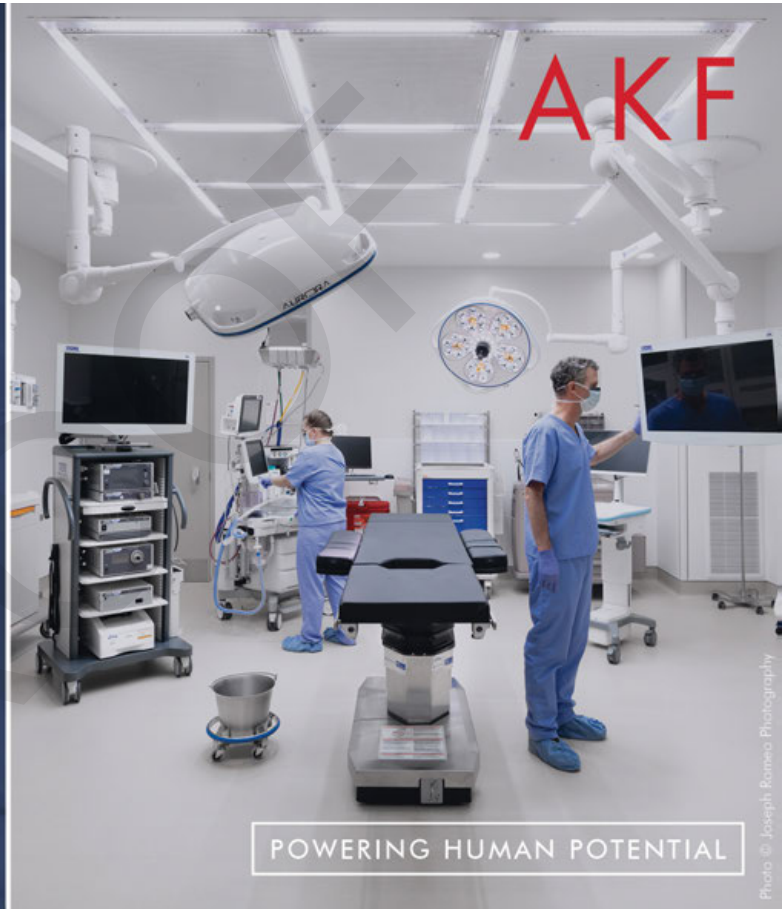


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Session Descriptions

Utilizing Conditions of Satisfaction to Create Alignment and Drive Successful Project Outcomes

WEDNESDAY, MAY 10TH | 2:45 PM – 3:45 PM

This presentation will share how the team for the Crystal Spring Tower project developed a Conditions of Satisfaction at the onset of the project and the actions taken to fulfill those conditions.

Attendees will learn about what a Conditions of Satisfaction is, why it is important, and innovative ways our project team is exceeding expectations on this project and in the Roanoke community.

This panel discussion will breakdown the key elements of our project Conditions of Satisfaction and share how we are accomplishing the objectives established: Project Health, Community Engagement, Planning/Logistics, Relationships and Fun!



MARSHALL SCOTT

Project Director, Robins & Morton

Marshall Scott graduated from the University of Florida with a degree in Building Construction and has dedicated his 20-year career to healthcare construction with Robins & Morton. He is currently a Project Director working on the improvements at the Carilion Clinic.

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JOSH YOUNG

Senior Superintendent, *Robins & Morton*

Josh Young is a senior superintendent at Robins & Morton. He has been in the construction industry for more than 20 years has been with Robins & Morton since 2007. In that time, Josh has contributed to the direct success of 13 projects, totalling more than \$1.1 billion. He is currently overseeing the construction of Carilion Roanoke Memorial Hospital's Crystal Spring Tower in Roanoke, Virginia – a 10-story, 500,000-square-foot addition. Josh holds a degree in construction management and technology from Bowling Green University.

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BETH BANKSTON

MSHA, FACHE CMPE

Senior Director of Business, *Carilion Clinic Cardiovascular Institute*

Beth Bankston, MSHA FACHE CMPE serves as the Senior Director of Business for Carilion Clinic's Cardiovascular Institute in Roanoke, Virginia. She leads the cardiovascular revenue operations team, is responsible for capital and product purchasing, and coordinates the operational planning of the Cardiovascular Institute's relocation in 2025 to the new Crystal Spring Tower. Prior to joining Carilion Clinic, Beth held leadership positions in multi-specialty physician practices. She is an active member of the American College of Healthcare Executives and the Virginia Medical Group Management Association. Beth and her husband, Brad, have two sons.

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MARK PACE

President/Owner, *E. C. Pace Company*

Mark Pace is the President/owner of E.C. Pace Company, Inc., a heavy highway utility construction company based in Roanoke, VA. E.C. Pace Company has been in business since 1920 with Mark representing the 4th generation of family ownership. He is also the owner/manager of several other Virginia based companies.

Mark serves on many local boards including the Carilion Clinic Board of Directors. He is also a current member of YPO Gold (Young Presidents Organization, Southern Seven Chapter). His hobbies include snow skiing, kiteboarding, wakeboarding, and painting. Mark has been married to his wife Amy for 27 years and they have 2 children, Nicholas 24 and Megan 22.

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Session Descriptions

Battery Energy Storage for Healthcare Facility Electrification and Decarbonization

WEDNESDAY, MAY 10TH | 4:00 PM – 5:00 PM

When properly implemented, battery storage technologies have a net positive return on investment (ROI) with low capital and operating expenditures. Battery energy storage systems (BESS) store energy and convert it into direct current (DC) or alternating current (AC) electrical power for use when and where needed, allowing healthcare facilities to shift to low-carbon energy sources. Different battery types, including electrochemical, lithium-ion, lead-acid, vanadium flow, and supercapacitors, charge, retain/store, and discharge energy in varying ways, and it is important to choose the technology that is the most effective and appropriate for each use case for the best ROI.

Large-scale battery storage systems require considering various performance metrics, including the round-trip efficiency (RTE), response time, cycle life, calendar life, and duration corresponding to cycle life. To date, lithium-ion batteries exhibit the highest overall ROI, making them an ideal choice for many large-scale storage systems.

Real-world examples demonstrate the potential for growth and success of battery energy storage in healthcare facilities. As the healthcare sector continues to work toward reducing CO2 emissions, battery energy storage will be critical in achieving net-zero emissions by 2050.



CLIFT BRISCOE

Co-Founder, Sol Donum

Clift Briscoe has designed, developed, and implemented software and hardware systems within the U.S. Department of Defense and Intelligence Communities. He is an electrical engineer who co-founded several successful IT companies, and he has led the development of power supply and power management technology for computing platforms that must operate in varying environments.

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SEAN CURRY

Operations and Growth Executive, Sol Donum

Sean Curry has led software development, hardware engineering, professional services, and sales teams for companies serving the U.S. Federal Government, Department of Defense, and Intelligence Communities. He is a graduate of the U.S. Naval Academy and has directed the construction, operation, and maintenance of nuclear and electrical systems on submarines.

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Tackling MEP Infrastructure Upgrades - One Play at a Time

WEDNESDAY, MAY 10TH | 4:00 PM – 5:00 PM

When the Director of Engineering at WellSpan Health was faced with these challenges, he developed a process to identify different levels of acuity for equipment replacement projects and a method that is forward looking in its approach to identifying replacement opportunities. By identifying the acuity of each upgrade and developing accurate cost models for equipment replacement, he was able to quickly and succinctly present the system needs to leadership and secure a constant stream of capital for those projects.

This process of MEP infrastructure replacement embodies the ideas of operational excellence by replacing antiquated equipment which in turn allows for the improvement of patient care and a safe environment for patient and staff. The equipment replacement projects focus on increasing facility reliability and also look to provide resiliency and redundancy in the MEP systems. A final by-product of this effort is the reduction of energy usage with higher efficiency motors, the use of variable frequency technology for equipment control and new equipment that is inherently more energy efficient.



GEORGE BAKER

Director of Engineering, WellSpan Health

Mr. Baker is the Director of Engineering for WellSpan Health. He is responsible for the operations and maintenance of the MEP systems serving each of the seven (7) acute care hospitals in the WellSpan Health System.

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KAREN GLEBA

PE

Senior Vice President, WSP

Ms. Gleba is a Senior Vice President and Business Line Leader for the Richmond, Virginia office of WSP. She has a Bachelor of Architectural Engineering – Electrical Emphasis from the Pennsylvania State University and has more than 27 years of design, management and leadership experience in the consulting engineering field, focusing exclusively on healthcare systems design.

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Session Descriptions

Elevating the Status Quo: A Case Study in Finding Opportunity for Evidence-Based Design and Prefabrication

WEDNESDAY, MAY 10TH | 4:00 PM – 5:00 PM

The vertical expansion of the Cape Fear Valley Medical Center in Fayetteville, NC, could have easily fallen victim to the status quo, and yet the resulting project is full of firsts – for both the client and design team – that rely on evidence-based design principles to elevate patient care and make an architectural statement that the Cape Fear Valley Medical Center is an institution of the future. This session will combine clinical insights with examples of cost-effective, evidence-based design innovations (alternate floor plate, full-height glass windows, staff wellness rooms, and prefabricated bathroom pods) through a case study and literature review.



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KATHERINE SCOTT

Project Architect, *Little Diversified Architectural Consulting*

Katherine is a Project Architect in Little's Healthcare Studio. Drawing on her background as a math major, she strives to unite her love of solving complex problems with her passion for design to create thoughtful spaces that elevate patient and staff experience. Through work on projects that range from small renovations to large scale master plans, Katherine has developed a passion for ideas that offer measurable and meaningful impacts on healthcare spaces.

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SEAN MURPHY

LEED AP

Partner, Studio Principal, *Little Diversified Architectural Consulting*

As Partner & Studio Principal, Sean brings 30 years of healthcare planning and design experience to our Healthcare studio. He has a diverse body of work experience including inpatient and outpatient facilities of all sizes and delivery models. Sean leads project teams through all aspects of project delivery, from programming to project close-out. With deep knowledge of regulatory and code requirements, Sean understands how a well-designed space positively impacts the ability of patients to heal and healthcare staff to thrive. A natural leader, he's known as someone who anticipates the needs of his clients and effectively guides projects toward success.

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ROGER WILKERSON

EDAC

Healthcare Practice Leader, *Little Diversified Architectural Consulting*

Roger has over 30 years of experience in management and healthcare design. He is highly skilled at business development and administration and cultivating lasting relationships with key decision-makers in the healthcare industry. Roger meets with clients to review performance and consistently finds ways to improve productivity, technology, budgeting, process optimization, and client relations. He has a proven ability to create and lead successful teams that deliver the highest expectations.

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Session Descriptions

Plugging the Leaks: A Present No One Wanted. Addressing Sprinkler Line Breaks in Hospitals

WEDNESDAY, MAY 10TH | 4:00 PM – 5:00 PM

The group discussion will focus on the recent incidents of sprinkler line breaks over the Christmas period in three different hospitals. The main objectives of the discussion will be to assess the causes of the breakages, evaluate the response of the hospitals in handling the incidents, and explore potential solutions to prevent similar incidents from happening in the future. The discussion will also address the impact of the line breaks on hospital operations and patient safety, and explore ways to minimize any future disruption to hospital services.



SCOTT BLAKENSHIP

CHFM

Director of Facility Support Services, Carilion Clinic

Scott Blankenship serves as the Director of Facility Support Services for Carilion Clinic. Scott has over 30 years of experience in facility support services, including facility management, capital outlay planning, financial systems, energy management, infection control, and computerized maintenance management systems. He studied Communications at Virginia Commonwealth University and completed specialty coursework in various areas related to facility management.

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DANIEL RAKES

Engineering and Maintenance Manager, Carilion Clinic

Daniel Rakes currently serves as the Engineering & Maintenance Manager at Carilion Roanoke Community Hospital. After a 30 plus year career with the Roanoke Fire-EMS Department, Daniel came to Carilion with a wealth of knowledge in fire protection and safety to the team and is passionate on seeing projects succeed. He also teaches for the State of Virginia to help train the next up and coming Fire Investigators and Inspectors.

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CRAIG BRYANT

Director of Emergency Management and Safety, Carilion Clinic

Craig Bryant leads the emergency management and safety program for Carilion Clinic, a 13k employee, 300 square mile service area, multi-specialty healthcare system that also includes southwest Virginia's Level-1 trauma center. He brings over 25 years of experience and leadership in the areas of emergency services, emergency management and preparedness, and local government administration. He values serving the community, community partner engagement, and going beyond our comfort level.

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BRIAN EADS

Engineering and Maintenance Manager, Carilion Clinic

Brian Eads serves as the Engineering & Maintenance Manager at Carilion New River Valley. Brian earned his Bachelor's degree in Property Management from Virginia Tech and has over 7 years of experience in Facility Management. Brian is diligent in his duties to ensure that the facility is a safe place for patients and staff.

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TAMMY TURPIN

Emergency Management & Safety Manager, Carilion Clinic

Tammy Turpin serves as the Emergency Management & Safety Manager for the Western Division of Carilion Clinic. She has dedicated 25 years of her talent and passion to Carilion Clinic. She enjoys teaching HazMat for Healthcare and has also developed a basic moulage course for our local areas.

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JAY SMITH

Project Analyst, Carilion Clinic

Jay Smith serves as Project Analyst for Carilion Clinic. Jay has nearly twenty years of experience in healthcare, primarily in bedside care. He has spent the last five years transitioning into non-clinical roles and has established himself as a highly effective project manager. Jay is committed to improving patient care and experiences and has proven to be a strong partner with infection control and safety teams. His experience at the bedside has helped him facilitate effective communication and collaboration between clinical and non-clinical teams.

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Session Descriptions

Compounding Pharmacy HVAC Controls Design Requirements and Sequences of Operation

THURSDAY, MAY 11TH | 8:30 – 9:30 AM

We've seen compounding pharmacy HVAC control systems for ACH and pressurization fail due to application of VAV laboratory type systems that don't scale down well to small AHU applications. Constant volume systems can be much more stable and easier to maintain, therefore safer.



MATT COSTICK

Building Health and Energy Solutions, TSI

Matt Costick has 28 years of experience in the HVAC industry, and has been specializing in critical environments (laboratory, healthcare and manufacturing) for the majority of that time. He joined the controlled environments group at TSI in 2012. Matt has worked in design-build project management in addition to working with HVAC manufacturers, and brings a balanced approach to design, construction and operation of critical environments.

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Healthcare Design and Decarbonization: Can They Coexist?

THURSDAY, MAY 11TH | 8:30 – 9:30 AM

This session challenges the healthcare industry to design carbon-conscious healthcare facilities without compromising patient care. We will differentiate between strategies for new and existing healthcare facilities and how design decisions directly correlate to a hospital's carbon footprint.

The renewed focus on global warming and carbon footprint impacts all industries, including healthcare. New legislation financially penalizes buildings that do not meet carbon reduction targets. This challenge is especially difficult for the healthcare industry which is currently one of the largest emitters of greenhouse gases. Many of the new policies include targets for healthcare institutions and non-compliance results in monetary ramifications. Therefore, these institutions must quickly determine how to meet these regulations without sacrificing patient wellness.

Many healthcare institutions have already implemented strategies to minimize their carbon footprint. Progress is being made through energy efficiency, waste reduction, and supply chain management. This session challenges the healthcare industry to think “outside of the box” to design carbon-conscious healthcare facilities without compromising quality in patient care. Attendees will be provided with an overview of states that have declared greenhouse gas (GHG) mitigation strategies or action plans. As design engineers, we will differentiate between strategies for new and existing healthcare facilities. Throughout this session, the speaker will discuss innovative design strategies to provide attendees with a better understanding of how design decisions directly correlate to a hospital's carbon footprint.

Participants will also receive an overview of various benchmarking and design tools available to assist in making informed design decisions. These tools help to evaluate the carbon, energy, and cost impact of each design option to ensure the appropriate systems, or combination of systems, are selected.



SHANNON KAPLAN

PE, LEED AP

Partner, AKF Group

Partner at AKF, Shannon Kaplan, PE, LEED AP specializes in the design and analysis of high-performance systems. She has over 20 years of experience working with clients to help them find ways to minimize energy usage in buildings and has helped develop innovative tools such as low-energy building user guides to achieve energy goals.



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Session Descriptions

Calculating a Healthcare System's Carbon Footprint

THURSDAY, MAY 11TH | 8:30 – 9:30 AM

Carilion Clinic's Sustainability Department is conducting the organization's first greenhouse gas inventory and calculating the organization's carbon footprint. This session will provide an overview of what a greenhouse gas inventory is, why healthcare systems are doing this work, how the calculation is being performed, and what it means for healthcare engineering and facilities professionals.

To commit to greenhouse gas goals and make reductions, organizations must be able to calculate their baseline and measure progress. This is done by completing a greenhouse gas accounting inventory. This session will provide participants with an overview of the Greenhouse Gas Protocol and how it can be applied to healthcare system. The conversation will provide examples from Carilion Clinic and demonstrate tools and processes to aid in the data collection process.



MARINA SOTELO

MENG, MAED

Efficiency & Sustainability Coordinator, Carilion Clinic

Marina Sotelo manages programs across the Carilion Clinic system aimed at reducing emissions, waste, and energy usage. She serves as the primary educator/trainer for sustainability and increases staff awareness and engagement through communications, volunteer opportunities, and events. She works closely with clinical staff to reduce supply and linen waste and strives to integrate waste reduction practices into their daily workflow. Marina manages the data for all sustainability programming and over the past year, has been heavily involved in conducting Carilion Clinic's first greenhouse gas inventory. Marina holds master's degrees in Human Factors Engineering and Instruction Design & Technology, both from Virginia Tech, and is a Certified Associate in Project Management (CAPM). She also serves on the board of the Virginia Society of Healthcare Engineers as the Sustainability Liaison.

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SARA WOHLFORD

MPH, RN

Director of Sustainability, Carilion Clinic

Sara Wohlford facilitates and coordinates programs for the health care system that reduce inefficiencies and waste and promote environmental sustainability. After receiving a Master's Degree in Public Health from Virginia Tech, Sara conceptualized and proposed her current position, created a work structure for sustainability for Carilion's seven hospitals, and developed the Carilion Clinic Environmental Stewardship Council. Her programs increase recycling, decrease energy utilization, decrease natural resource consumption, and divert tens of thousands of pounds of waste from Virginia landfills annually, while educating and demonstrating to staff, patients, and visitors the inextricable links between community health, environmental health, and sustainability. Her program received the Governor's Environmental Excellence Award Gold Medal for improving health and the environment in the State of Virginia.

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Keeping Docs Cool, Dry, and Happy in the OR... Doing It Efficiently and Sustainably

THURSDAY, MAY 11TH | 8:30 – 9:30 AM

Many times, healthcare facility professionals have “inherited” older, inefficient HVAC systems which were installed in their hospital at the time of its original construction. These systems may be incapable of delivering the critical level of environmental control necessary in today’s ever demanding patient care model, and they may not be models of energy-efficiency or sustainability. 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 improve energy-efficiency and sustainability while remedying ailing OR’s will also be discussed.



DAVID SCHURK

DES, CEM, LEED-AP, CDSM, CEWP, SFP, CIAQM

Director-Healthcare and Applied Engineering Markets, Innovative Air Technologies

David Schurk DES, CEM, LEED-AP, CDSM, CWEP, SFP, CIAQM, Committee Chair ASHE Sustainability and Decarbonization Leadership Task Force, Member ASHE Rapid Response Task Force, and ASHRAE Distinguished Lecturer, is Director-Healthcare and Applied Engineering Markets for Innovative Air Technologies in Covington, GA. He has over 40-years of experience in the design and analysis of heating, ventilating, and air-conditioning systems for a variety of market sectors, with a special focus on healthcare and aerospace environmental control and air quality.



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Closing Plenary

Healthcare Executive Panel

THURSDAY, MAY 11TH | 10:00 AM – 12:30 PM (BOXED LUNCH WILL BE PROVIDED)

A distinguished panel of Executive Leaders will share their how they are moving the needle and will explore how leaders can effectively navigate through times of uncertainty and rapid change. What does the future look like? What new trends are on the horizon? What changes can be made to ensure the business can thrive? Attendees will have the opportunity to ask questions and glean from the experiences of this executive panel of leaders.



LEE HARRELSON MODERATOR PE, LEED AP

**2023 Conference Chair, VSHE
Principal, CMTA**

Lee Harrelson brings 20 years of experience in the consulting engineering field and currently serves as a Managing Principal for CMTA's Richmond and Arlington, Virginia offices. Lee graduated with a Bachelor of Science in Mechanical Engineering Degree from The University of Virginia and a Master of Science in Engineering Management Degree from The George Washington University. He is a registered Professional Engineer and a LEED Accredited Professional and was recognized by Consulting Specifying Engineer Magazine as a "40 Under 40" award winner, recognizing the nation's top 40 engineers in the A/E/C business, under the age of 40.

Lee's current role involves charting the strategic direction for CMTA in the mid-atlantic region. In particular, Lee enjoys the challenge of mentoring, teaching, and motivating staff towards a common goal. He has been an adjunct lecturer and critic at the Catholic University of America where he taught MEP systems integration to aspiring architects and now enjoys speaking regionally on energy efficient building design. He is also active in the local engineering community, most recently as Conference Chair for VSHE, as well as participating in the US Department of Energy Solar Decathlon and ASHRAE.

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JONATHAN HUNLEY

CHRM, CHC, CHOP, CHEPP, LEED GA

Director Plant Operations/Facility Management, Bon Secours Mercy Health

Jon Hunley is a healthcare professional with over 15 years in leadership, managing Healthcare system operations spanning 15 Million+ square feet of real estate. He has proven skills instructing and developing personnel, leading and motivating teams, and is committed to high work ethics and to attainment of organizational goals and objectives. Jon is experienced in Healthcare PDC, Facility and Plant Operations, and Infrastructure CAPEX Planning. He is a progressive system and corporate level senior leader who is well versed in solving complex matters with creative solutions.



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MICHAEL ROBERTS

PE, SASHE, CHRM, SRHE

Management & Safety, Environmental Services, and Sustainability, Atrium Health

Michael Roberts has over 25 years of experience working directly for healthcare systems in a variety of facility management leadership roles. He is currently working with Atrium Health as Director, Enterprise Energy Services. 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 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. He is a NCHES Past President and past NCHES Sustainability Liaison to ASHE.



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ROGER BRADLEY

MBA, MHA, CHRM, CHC, CHEP GB

Interim Vice President Support Services and Planning, Centra Health

Roger Bradley has over 29 years of leadership and strategic decision making in healthcare design, construction, facilities, clinical engineering, and support services in the environment of care. He has operations experience for emergency management, safety & security, property management, process engineering, parking & transportation, call center & PBX, dietary, environmental services, laundry, lab, pharmacy and imaging, and served on the Oncology Steering Committee for multiple healthcare systems. He holds a BS degree from Purdue University School of Engineering and graduated Summa Cum Laude from Indiana Wesleyan with a Master's Degree in Business and a Master's Degree in Healthcare Administration.

Over the past 10 years he has successfully managed over \$4.4 billion in healthcare capital projects consisting of 4 new hospitals, 3 hospital expansions, 2 hospital bed towers, 5 MOB's, 3 central utility plants and over 160 hospital, clinic, pharmacy, research and ancillary service projects. Additionally, he has managed over 25.9 million square feet of healthcare real estate comprised of 40 hospital campuses, 491 clinics and MOB's, 5 research facilities and associated ancillary service buildings.

Mr. Bradley is an active Member and Contributor to ASHE, and has received several awards for his contribution to healthcare facilities and for promoting diversity.

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