

THE WHISTLE

FLORIDA HEALTHCARE ENGINEERING ASSOCIATION

THE PRESIDENT'S CORNER

Kirk Dickson
CHE, CHFM, CHC



From the President

As I was reflecting on this past year, both personally and professionally, I realized how much was accomplished. Sometimes, we are dealt challenges that seem impossible to overcome, but here we are at the end of another year.

Many of us have had AHCA, Joint Commission, or DNV come through our facilities, and yes, there were some findings, but overall, from those I have been able to talk to, the surveys have been successful and productive. Congratulations to all who completed surveys and thank you for sharing some of the findings you had in your facilities. It is always good that we can learn from each other.

In my opinion, though our C suite teams may be competitive, the facilities teams have always been willing to share and help each other for the common goal of keeping our facilities operational and safe for our patients. Thank you 2024 for a good year.

Now, let's look towards the future, may 2025 be a great year for each of you. The FHEA has a lot of good things coming in this new year. Our four FHEA districts have meetings and events throughout the state AND registration is open for the 2025 FHEA Trade Show & Annual Education Conference, at Renaissance Sea World, in Orlando, May 19 – 21 (*arrive on the 18th if you will be playing golf in the FHEA golf tournament or spending the day prior at Sea World*).

INSIDE THIS ISSUE:

- President's Message: 1-2
- 2025 Annual Meeting: 3-9
- 2024 Fall Look Back: 10-12
- Committee & Other Updates: 13-16
- District Officers: 17
- Thank you Veterans: 18
- New Healthcare Engineer & Supporting Members: 19-21
- Educational Articles: 22-26
- FHEA Board of Directors: 27



THE PRESIDENT'S CORNER (CONTINUED)

Education at our conference will be above and beyond and feature timely topics as well as knowledgeable speakers you will not want to miss. For complete information, visit <https://www.fhea.org/fhea-2025-annual-meeting>. Remember, there is CE available for everyone who needs ASHE, Florida Architect, Florida Interior Designer, and/or Florida Professional Engineers credits.

The FHEA Trade Show has a limited number of booths left, so if you are a Supporting member, be sure to sign up for a booth, <https://www.fhea.org/2025-expo>. There are also still some sponsorship opportunities available, <https://www.fhea.org/2025-sponsor>. If you want to attend the conference, reserve your hotel room, <https://book.passkey.com/event/50846163/owner/210/home> and register now, <https://whova.com/portal/registration/uCMdkDaVK81LQ5dJD8BK/>.

To learn more about FHEA happenings, visit www.fhea.org If you have any questions, please get in touch with our staff, info@fhea.org or 813.988.3432.

We look forward to seeing everyone in May!

2024 ENVIRONMENTAL SERVICES DEPARTMENT OF THE YEAR / 500 PLUS BEDS

Congratulations to the Winner - Orlando Regional Medical Center!

Orlando Regional Medical Center has researched technologies, retained staff, and saved with sustainability. Many top hospital environmental services (EVS) departments are ambitious, but few can match the ambition found in the EVS department at Orlando (FL) Health --- Orlando Regional Medical Center (ORMC).

For example, the department is constantly collaborating with multiple clinical and infection prevention units. One project was to determine the rate of microbiological contamination of privacy curtains. As a result, the hospital is removing cubicle curtains from non-essential areas and private rooms.

"The results [of the research study] were alarming," says Michael Parker, CMIP, T-CHEST, T-CNACC, T-CSCT, director of EVS at ORMC.

Another project the department participated in was a clinical trial for highlight wipes, which show disinfection coverage. That study now has advanced to Phase 2, which involved the EVS department working with the highlight wipes' scientists to develop a new version of the wipes that will be able to incorporate hydrogen peroxide.

This type of in-depth involvement with research is one reason Parker's department does so well in the Association for the Health Care Environment's (AHE's) EVS Department of the Year Award program. Its win this year is the second in three years.

(HFMagazine.com/November/December2024)



MAY 19 - 21, 2025

Trailblazers and Visionaries

FHEA ANNUAL TRADE SHOW & EDUCATIONAL CONFERENCE

Renaissance Sea World, Orlando

REGISTRATION INFORMATION

Registration fees include educational sessions, receptions, after-hours Casino Party, Wednesday continental breakfast and luncheon, FHEA Trade Show, and networking breaks.

If attending educational sessions, the Tuesday continental breakfast and luncheon are also included with your registration.

REGISTER NOW >

EARLY REGISTRATION FEES:

(prices until April 2nd)

Full Active Member: \$150

CHE Member: \$130

Supporting Member: \$400

Non-member: \$500

Additional Booth Reps: \$350



To make your room reservation at the Renaissance Sea World:

1) Book online at

<https://book.passkey.com/go/FloridaHealthcareEngineering>

OR

2) Call 800-380-7917. (Be sure to mention the Florida Healthcare Engineering Association to receive our group rate.)

The FHEA will be holding the 2025 FHEA Trade Show & Annual Education Conference at the Renaissance SeaWorld, right in the heart of Orlando. If you bring the family, they will find exciting theme parks in the area and lots of things to do right at the hotel – it's a complete resort.

HOTEL INFORMATION

Renaissance Orlando Sea World

6677 Sea Harbor Drive

Orlando, FL 32821

As an official hotel of SeaWorld, registered guests receive exclusive benefits - priority entry, discounts on tickets and food, unique experiences, and more. The Renaissance has a large freeform pool and water park; a high-tech fitness center; and unique activities.

Special group rates have been negotiated for attendees who book within our FHEA block. Run-of-house rates are \$205 + current taxes (12.5%) AND resort fees have been waived for our attendees. The FHEA group rate will also be honored 3 days prior and post, based on hotel room availability.

Self-parking will be complimentary (5/17 - 5/21, 2025) for overnight guests who have booked within the FHEA block. For those driving in and not staying in the hotel, self-parking, with in and out privileges, will be 50% off the current daily fee (\$36.00).

Complimentary basic wi-fi for Bonvoy members is available in guestrooms and public space, so if you are not a member, sign up now, <https://www.marriott.com/loyalty/createAccount/createAccountPage1.mi>

(Please remember to only reserve the rooms you will definitely need so we don't run out of rooms for those members who want to attend.)

MAY 19 - 21, 2025

*Trailblazers and Visionaries***FHEA ANNUAL TRADE SHOW & EDUCATIONAL CONFERENCE***Renaissance Sea World, Orlando***FHEA KEYNOTE SPEAKER: JOSH MORGERMAN**

Storm chaser Josh Morgerman has been prowling the earth for violent cyclones since age 21 and is the world's top hurricane chaser, having hunted down 80 hurricanes to date—a world record. Combining an aggressive chase style with iron determination, he has a near-100% success rate penetrating the most powerful storms around the planet—in all four hemispheres. He has a penchant for chasing difficult-to-reach storms in exotic locations—the ones no one else will go after.

In 2024, Morgerman built a specially fortified “Hurricane House” in Bay Saint Louis, Mississippi—a model of hurricane-resistant construction and the centerpiece of his personal crusade to get his millions of Gulf Coast neighbors to fortify their homes against hurricanes.

Morgerman is the star of the TV series, *Mission: Hurricane*, on WeatherSpy. Before that, he starred in the UKTV/BBC international hit TV series, *Hurricane Man*—broadcast in every major TV market around the world and now available on Amazon Prime. He's a popular guest speaker and live on-air personality, appearing regularly on Fox News, The Weather Channel, CBS News, CNN, and many other media outlets. He's currently on contract as an anchor personality and field correspondent for the TV network WeatherNation.

Morgerman holds a BA from Harvard University, where he concentrated in History. When not chasing hurricanes, he is a Brand Strategist at Symlaze, the creative agency he co-founded in 1999.

2025 TRADE SHOW & ANNUAL EDUCATIONAL CONFERENCE SCHEDULE

(as of January 12, 2025)

SUNDAY, MAY 18, 2025

6:30pm

Dutch Treat “Meet n Greet” in the Renaissance Lobby Bar

Golfers, folks going to Sea World for the day, and anyone arriving early, meet for a drink in the Renaissance Lobby Bar to catch up with friends and colleagues.

MONDAY, MAY 19, 2025

7:30am

FHEA: Golf Registration

Join FHEA friends and colleagues for our bi-annual golf tournament. Falcon's Fire, a Rees Jones Signature Designed championship golf course, features classic architecture and an exquisitely maintained course. Stretching nearly 7,000 yards from the back tees, golfers have four sets of tees. Golfers will enjoy complimentary valet parking and golf carts equipped with GPS navigation.

8:00am

FHEA Golf Tournament *(Pre-registration is required)*

3:30 -
5:00pm

FHEA Board Meeting

5:00 -
6:30pm

Welcome Reception

After your day of golf, or visiting Sea World, meet folks for a drink and light hors d'oeuvres before heading out to dinner.

6:30pm

Dinner on own

There are many restaurants in the area where you can enjoy a gourmet dinner with friends and colleagues. The hotel concierge will be happy to help you if you need recommendations or reservations.

TUESDAY, MAY 20, 2025

7:00am

FHEA Trade Show - Exhibitor Set-up

Set-up begins at 7:00am and must be completed by 3:00pm.

7:00am

FHEA Registration and Breakfast

8:00am

Welcome to the 62nd FHEA Trade Show & Educational Conference

Kirk Dickson, CHFM, CHE, CHC, FHEA President

Call to order, Minutes, Treasurer's report, bylaws, recognition of retiring board members, and election of new board members.

2025 TRADE SHOW & ANNUAL EDUCATIONAL CONFERENCE SCHEDULE

(as of January 12, 2025)

TUESDAY, MAY 20, 2025

<p>8:30 - 9:30am</p>	<p>FHEA Opening Keynote: Five Hurricane Commandments Speaker: Josh Morgerman</p>
<p>9:30 - 10:30am</p>	<p>Hurricane Preparedness: Readiness, Lessons Learned, & Tips for Recovery Speakers: David Trask, ARC Facilities; Dr. Walter Lamar, University of Miami; Jordan Smith, Advent Riverview; J.T. Stacy, Seminole Tribe of FL <i>Hurricane preparedness is a complex process that requires proactive planning, consistent monitoring, and effective recovery strategies. This session provides participants with actionable tools and best practices to enhance their readiness and resilience in the face of hurricanes. By focusing on every stage of the hurricane lifecycle-before, during, and after the storm-participants will gain the skills needed to protect facilities, ensure safety, and streamline recovery efforts.</i></p>
<p>10:30 - 10:45am</p>	<p>Gathering Break</p>
<p>10:45 - 11:45am</p>	<p>Water Management During Emergency Situations - Have a Plan Before Disaster Strikes Speakers: Cole Kirmes and Stephanie Sanchez; Phigenics <i>Disruption to your facility's water supply or quality may occur at any time for any number of reasons-from severe weather, a burst water main, intrusion of salt water, or even a sudden bloom of harmful algae in your area. Whether a disruption lasts only a few hours to days it is important to proactively establish a clear plan for maintaining water systems as part of your hospital's Emergency Operations Plan (EOP) to support the environment of care and maintain patient safety. Guidance from the CDC, The CMS, and Joint Commission provides a framework for developing contingency plans as well as implementing said plans when a disruption does occur. A Key element in preparation for disruption is to already have an ongoing water management program aligned with ANSI/ASHRAE Std 188 to have all the infrastructure for water quality monitoring, protocols, and above all a team already in place with training in what to do.</i></p>
<p>11:45am - 12:45pm</p>	<p>FHEA Luncheon</p>
<p>12:45 - 1:45pm</p>	<p>Breakout 1: The Why of Healthcare Design-It Always Works on Paper: What Happens on the Day of the Open House Speakers: Gary Schindele, Paladin Healthcare; William Hercules, WJH Health <i>This session will show how interdisciplinary members of design team (e.g., architects, engineers, interior design, medical planning) and members of clinical healthcare roles (e.g., Nursing, Respiratory and Physicians) can better understand each other's roles and optimize the post occupancy reality of the true patient care environment.</i></p>

2025 TRADE SHOW & ANNUAL EDUCATIONAL CONFERENCE SCHEDULE

(as of January 12, 2025)

TUESDAY, MAY 20, 2025

12:45 - 1:45pm

Breakout 2: Lessons Learned from Integrated Systems Testing

Speaker: Mark Gelfo; TLC Engineering Solutions

This presentation will review the process of Integrated Systems Testing, associated standards and code requirements such as the International Energy Code, FGI Guidelines, NFPA 3, NFPA 4, NFPA 99, and NFPA 110. We will use real project case studies from several recently completed hospital addition/expansion and new hospital projects to demonstrate the process, benefits, and what to watch out for on your next project.

1:45 - 2:45pm

Breakout 1: Planning, Design, & Construction Challenges

Speaker: Lisa Hardesty; Montgomery Facility Solutions

Attendees will understand the current state of healthcare and consider consolidated construction phases and the key challenges within each phase. They will learn how involving Facility Services and other operations staff could improve the process and focus on the impact involving Facility Services and other operations staff could have on the construction cost. There will be a discussion on the challenges related to Emergency Management with an emphasis on considerations during planning and design AND considerations when planning for hurricanes.

1:45 - 2:45pm

Breakout 2: Redefining OR Ventilation: Temperature Controlled Air Flow Technology

Speakers: Kathy Warye, Infection Control Partners; March Schwartz, University of Rochester Medical Center

The presentation will include information on cost, energy requirements and the perceptions of surgical personnel working in rooms with different ventilation systems and use several case studies as examples: risk factors associated with airborne microbial contamination in the operating room; the physics of Temperature-controlled Air Flow ventilation; differences in design and performance among different ventilation alternatives; the process of assessing a novel ventilation technology.

2:45 - 3:00pm

Gathering Break

3:00 - 4:00pm

Breakout 1: From Good to Great: How to Make Your CMMS Better

Speakers: Dennis Ford, Atrium Health; Joe Stockman, FSI

A CMMS is an essential tool for the healthcare facilities professional, but with software designed to contain and process the vast range of information required by healthcare maintenance operations, systems can quickly become overwhelming or nearly unusable in the absence of clear structure. Attendees will leave this workshop with a clear understanding of actionable steps departments can take to make their CMMS more streamlined, organized, and useful to ensure long-term success in facility and asset management.

3:00 - 4:00pm

Breakout 2: Pneumatic to DDC in 10 Minutes: Non-invasive Retrofit Pneumatic Thermostats

Speakers: Harry Sim, Cypress EnviroSystems; Jared Galloway, North Jackson Medical Center

Facility managers in virtually every hospital would like to replace the old stats with modern DDC stats, but the cost and disruption to patients and operations are prohibitive. Conventional approaches require opening walls and ceilings, replacing pneumatic tubes and actuators, running power and signal wires etc. However, with the introduction of non-invasive wireless pneumatic technology, upgrading to DDC stats can be completed in only 10 minutes with virtually no disruption to patients and staff. The payback period is typically three years or less. This presentation will explain when non-invasive technology is applicable, how it can be deployed, and what kinds of benefits to expect. An actual recent case study of deployment at North Jackson Medical Center in N. Miami Beach will be presented as an example.

2025 TRADE SHOW & ANNUAL EDUCATIONAL CONFERENCE SCHEDULE

(as of January 12, 2025)

TUESDAY, MAY 20, 2025

4:00 - 6:00pm

FHEA Trade Show & Welcome Reception

Take time to visit FHEA Supporting members who are exhibiting their latest services and equipment in our trade show.

6:00pm

Dinner on own

8:30 - 10:30pm

FHEA After Hours Casino Party

After dinner, be sure to come to the FHEA Casino Party and try your luck at the casino games and winning some valuable prizes.

WEDNESDAY, MAY 21, 2025

7:00am

Continental Breakfast in FHEA Trade Show

Grab some breakfast and meet with exhibitors you didn't see at the opening reception.

7:00am -
12:00pm

FHEA Trade Show Open

8:30 - 9:30am

Ventilation Management Program Using ASHRAE/ASHE Guideline 43

Speakers: Dino Coliano, Climate Control Group; Jonathan Flannery, ASHE

To support clinical care, infection control, and ongoing patient care as well as satisfy accreditation compliance requirements, the facilities staff in a hospital operate and maintain a large inventory of equipment that serve critical and non-critical ventilated spaces. Each space is designed to support and enhance the clinical care process and ultimately promote patient healing. Unfortunately, this area continues to be cited by The Joint Commission and DNV as one of their most challenging standards to meet. National guidelines, including ASHRAE/ASHE Standard 170 and state standards have been used as the "referenced standard" in the past. IN addition, there may be standards or guidelines issued by professional organizations that provide requirements for spaces to minimize infections. With ASHRAE/ASHE Guideline 43 in final draft process, the facilities staff should be educated on the new guideline recommendations and how to incorporate a Ventilation Management Program into their current utility management program and processes.

9:30 - 10:30am

A Case Study & Tale of Two Energy Projects

Speakers: Kevin Gombotz, Envinity; Bobby Baird, UF Shands

Whether you are trying to reduce operating costs or greenhouse gas emissions, every health care system is interested in incorporating energy efficiency initiatives into their facility upgrades. But is an energy efficiency project enough? Can you actually reduce energy consumption without sacrificing compliance or increasing work orders? This insightful presentation will explore two case studies of healthcare facilities in Florida that implemented energy efficiency upgrades with two different outcomes, particularly in terms of long-term energy savings and operational efficiency.

10:30 - 11:30am

Morning Break in the FHEA Trade Show and Door Prizes

Drop your business card in the exhibitors' baskets as you make your way around the FHEA Trade Show!

2025 TRADE SHOW & ANNUAL EDUCATIONAL CONFERENCE SCHEDULE

(as of January 12, 2025)

WEDNESDAY, MAY 21, 2025

11:30am -
1:00pm

Informal Networking Luncheon

1:00 - 2:00pm

Joint Commission 2025 Update

Speaker: George Mills, JLL

This session will focus on the Centers for Medicare & Medicaid Services (CMS) and their impact on Accrediting Organizations (AOs). It will explore how CMS guidelines and regulations have influenced the practices and procedures of AOs, and the resulting effects on the healthcare industry. The presentation will provide an overview of key issues raised by The Joint Commission (TJC), and address emerging trends such as health equity, environmental sustainability, and workforce challenges.

One important topic to be covered is the proposed Physical Environment Chapter, where The Joint Commission will replace their current EC and LS Chapters with the new PE Chapter. This new chapter will be based on CMS K tags. The session aims to enhance the audience's understanding of the challenges faced by healthcare organizations in meeting TJC standards.

The presentation will also analyze and discuss the current top findings in both the Environment of Care (EC) and Life Safety (LS) chapters from 2024. By delving into these findings, participants will gain valuable insights into prevalent trends and best practices identified during recent surveys.

Attendees will leave this session empowered with the knowledge needed to navigate the dynamic healthcare regulatory landscape. By understanding trends derived from recent surveys and anticipating forthcoming changes, participants will be equipped to enhance their organizations' compliance efforts and drive continuous improvements in their respective environments of care.

2:00 - 3:30pm

ICRA 2.0 Summary, AHCA Update

Speakers: Jonathan Flannery, ASHE; Eddie Alday, AHCA

This session will: Describe the importance of assessing infection risk during design, construction, and maintenance activities using the ASHE ICRA 2.0 process; Determine key roles of the ICRA team; Establish how the ASHE ICRA 2.0 is used to plan for infection prevention.

Attendees will know how to: Gain approval for your ASHE ICRA 2.0 plan; Communicate across teams throughout the process; Monitor to ensure that mitigation procedures are applied appropriately; Adjust through the life cycle of the project or as circumstances change.

Eddie Alday will also be presenting the latest on AHCA and take your questions.

The FHEA reserves the right to change speakers, subjects, and times due to unforeseen circumstances.

THANK YOU

2024 FHEA FALL EXPO & EDUCATIONAL CONFERENCE SPONSORS

FHEA FALL SPONSORS



Lanyards



Sunday Welcome Reception



Sunday Coffee Break



Monday Morning Break



Monday Lunch



Monday Afternoon Break



Monday Expo Drink Tickets



Tuesday Box Lunch



Key Packets



Sunday Welcome Reception



Monday Continental Breakfast



Monday Morning Break



Monday Lunch



Monday Afternoon Break



Monday Expo Drink Tickets



Tuesday Box Lunch



Conference Power



Sunday Welcome Reception



Monday Continental Breakfast



Monday Morning Break



Monday Lunch



Monday Afternoon Break



Monday Expo Drink Tickets



Expo Breakfast



Expo Breakfast

THANK YOU 2024 FHEA FALL EXPO & EDUCATIONAL CONFERENCE TABLETOP EXHIBITORS

A-1 Orange Exterior Building Services
Advanced Roofing
American Portable Air
Andrews Filter Supply
Ashberry Acquisition Company
Barclay Water Management, Inc.
Bethel Products LLC
Carolina Filter Supply
Commercial Products
Concentric-Jantech Services
Detex Corporation
Duro-Last
Engineered Energy Equipment
Envinity
Evcor
Filtration Group
Flexcart
GHP
Hexmodal
JLL, Healthcare powered by ATG
intelligence

Kurita America, Inc.
Lektraflor
MediTrac by Omegaflex
Modern Containment Systems, LLC
Momar
Nalco Water an Ecolab Company
National Firestopping Solutions, Inc.
Nova Engineering and Environmental
Paladin Healthcare LLC
Paradise Filter Supply
Phigenics
Premier Water & Energy Technology
Prime Power Services
Pure Flow
Schneider Electric Holdings
ServiceMaster DSI
Smith Seckman Redi
Translogic Corp
Unison Energy
Victaulic
Walker Consultants

Fall Meeting Snap Shots



2024 FHEA FALL EXPO & EDUCATIONAL CONFERENCE SNAP SHOTS





ASHE LIAISON UPDATES

Larry Peterson, CHE, CHFM, CHSP; ASHE Region 4 Liaison

The 2025 PDC Summit will be held on March 9-12 in Atlanta and the 2025 ASHE Health Care Facilities Innovation Conference will be held July 27-30 in Columbus, Ohio.

The 4th Quarterly Liaison and Sustainability Webinar was held on December 4, and the 2025 webinar meeting dates are March 5, June 4, September 3, and December 3, 2025.

The 2024 quarterly webinar presentations are available to view at [FHEA.org/Resources/Advocacy](https://www.fhea.org/Resources/Advocacy). The FHEA home page will be updated once each 2025 presentation is posted on the ASHE site.

Important Chapter due dates:

- Chapter Annual Report and Awards Application - Due April 1, 2025
- 2026 Chapter Challenge - Due April 1, 2025
- Emerging Regional Leader Award - Due April 1, 2025
- Chapter Vouchers (for the 2024 Chapter Awards)
- Health Care Facilities Innovation Conference Vouchers – Due June 30, 2025
- ASHE Membership, CHFM/CHC Exam and Publication Vouchers – Due October 31, 2025



THE WHISTLE

Do you have a healthcare industry educational article to contribute? Submit to info@fhea.org

PLACE AN AD IN THE WHISTLE

Supporting FHEA Members: Place a 1/2 or 1/4 page ad in The Whistle (as space permits)

1/2 Page - \$350 1/4 Page - \$175

Contact the FHEA office at 813-988-FHEA



CODES AND STANDARDS

Phil Cardone, CHFM, CHC

Chair, Codes and Standards Committee

NEW CHANGES TO THE SURVEY PROCESS FOR THE JOINT COMMISSION AND DNV

THE JOINT COMMISSION

The Joint Commission announced in the December 2024 edition of *Environment of Care News* Life safety surveyors must review credentials and competency documentation of the facility director/manager and other key technicians to verify the authenticity of the individual's qualifications.

Life Safety surveyors, during the survey, will receive the job description from the organization's human resource representative for the facility director/manager to ensure the description meets the minimum standard for the position. The surveyor will validate the documentation to support that the facility director/manager and other key facility technicians have specific competencies, and any required training and/or licenses are up to date.

DNV

According to the 2024 NIAHO Program Accreditation Process, DNV Healthcare USA Inc. has updated the survey process to all hospital types. Effective immediately, the new procedures will include survey team leads presenting a list of requested documents upon arrival at the facility. The health care organization has three hours to present the requested documents to the survey team.

These requirements highlight the importance of organizations having all required physical environment documents readily accessible. Failure to produce within the specified timeframe could lead to a nonconformance which could impact on the facilities accreditation status.



EDUCATION UPDATE

John Crouch, CHFM, CHOP
FHEA Education Chair

Below is a self-explanatory image of what happens over time when you fail to twist the locking feature of the twist lock plug into a locking outlet or female plug. The two images of the total failure of the wall outlet were on one of my industrial washing machines.

Someone, who is not an electrician, plugged it in and did not understand or appreciate the value of locking lug design of the male and female receptacle. Please share it with your whole team please.





EDUCATION UPDATE *(Continued)*

John Crouch, CHFM, CHOP
FHEA Education Chair

Are you a member of ASHE (American Society of Healthcare Engineers)? If not, you are really missing out. Check out this link for free training that averages 20-30 minutes. Using it would be a great technique for your team training events. Project these learning modules on the big screen or monitor for your whole team to watch and group answer the quiz. Here is a link and below is an example of the 14 training sessions that are free. [On Demand Learning: Quick Training | ASHE](#)

ASHE Quick Training

ASHE's "Quick Training" online courses are free, fast, on-the-go training.

Participants will gain knowledge without a significant time commitment; the training should be concluded within 20-30 minutes. The courses will introduce the learner to a specific system, explain the importance of proper functionality for that specific system, and cover steps for proper inspection.

At the end of the educational portion, attendees will have **one chance** to pass a short online quiz to earn a certificate of completion. ASHE encourages participants to take their time going through the content and to take the quiz seriously.

Share this learning resource with your team!

ASHE members can share Quick Training access with their team members for free. Simply send your team members to ashe.org/quicktraining, so they can find the training courses they are interested in. Registration is complimentary.

NEW! Quick Training: Fire Door Inspections



This course will instruct learners how to properly complete a fire door inspection, including a step-by-step door inspection demonstrated by a technician. The course will also discuss correct testing frequency and components to consider while testing.

REGISTER

CECs

NEW! Quick Training: Air Testing Adjusting and Balancing Process



In this course you will learn how proper air testing, adjusting, and balancing (TAB) is critical to the environment of care. The course reviews critical pressure requirements that are specific to health care, identifies signs of improper balance, and demonstrates how to properly perform testing and balancing procedures.

REGISTER

CECs

NEW! Quick Training: Cooling Tower Water Treatment Testing



In this course you will learn to test water samples from cold and heating domestic water systems and review policies and procedures specific to water treatment in health care facilities.

REGISTER

CECs

FHEA DISTRICTS

FHEA DISTRICT LEADERSHIP FOR 2025

BECOME MORE INVOLVED IN THE FHEA BY TAKING PART IN DISTRICT ACTIVITIES. TO LEARN MORE, VISIT THE DISTRICT PAGES ON WWW.FHEA.ORG.

District I



President: Kevin Daniel, CHFM, CHE
Vice President & Rep: Phil Cardone, CHC, CHFM
Secretary: Jackie Kennington, CHEP
Treasurer: Kevin Daniel, CHFM, CHE

District II



President: Jeffrey Howard, CHE
Vice President & Rep: Jim Dixon, CHFM, CHC
Secretary: Bryan Davis
Treasurer: Lawrence Holman, CHFM

District III



President: Tony Echazabal, CHFM, CHSP
Vice President & Rep: Anthony Muglia
Secretary: Carlos Felix, CHE
Treasurer: Kirk Dickson, CHFM, CHC

District IV



President: Luis Rodriguez, CHE
Vice President & Rep: Cecily Allen, CHE
Secretary: Milton "Mac" Cumpston
Treasurer: John O'Connell, CHFM, CHSP, CHC, CHE

FHEA CELEBRATES OUR VETERANS



At our 2024 FHEA Fall Expo & Education Conference in St. Petersburg, four of our members were recognized as recipients of the FHEA Veterans Scholarship award.

At our 2024 FHEA Fall Expo & Education Conference in St. Petersburg, four of our members were recognized as recipients of the FHEA Veterans Scholarship award.

Kris Adrian, CHE, is a Navy veteran and current member of the FHEA. He served from 1976-1981. Kris is a strong believer in keeping up with the codes and regulations to keep those who enter our hospitals safe and to ensure the equipment is maintained in excellent condition. The FHEA conferences and district meetings have helped keep him informed of any important changes and best practices of maintaining our health care facilities and staying compliant with AHCA, DNV, Joint Commission, and AHJ's.

Christopher Maxfield, a brand-new Director of Plant Operations at Florida Medical Center, was excited to attend this year's conference. Christopher was in the United States Marine Corp from 1998 to 2002. He is looking forward to being an active member of the FHEA and coming to our conferences which provide him with the opportunity to meet new vendors for use at his facility as they rebuild their facilities team at his hospital.

David Higgins served in the United States Air Force from 1986 – 1990 and has been an FHEA member for one year and reaped great benefits from attending the recent 2024 FHEA Trade Show & Educational Conference in Ocala last summer. Though David has been in this position for 6 years, and at the hospital for 13 years, he was only first introduced to FHEA last year. David has said that he cannot believe what resources he has been missing out on and he only wishes that he had known about FHEA sooner!

Carlos Zayas was enlisted in the United States Marine Corp from 2005 to 2008. He has been in the healthcare field for fourteen years, and in facility management/ plant operations for ten years. Carlos says he is interested in taking his understanding of the field to the next level and is looking forward to the resources provided by the FHEA to help him accomplish that goal.

All conference attendees who served in the military were invited to come forward to be recognized for their service. The FHEA is proud to have so many dedicated individuals who have served our country and protected our freedom.

Thank you to all of you for your service to our country.



WELCOME NEW HEALTHCARE ENGINEER MEMBERS

(AS OF LAST PUBLICATION)

RYAN BOURDON
Regulatory Compliance Associate
Cleveland Clinic
Weston FL
DISTRICT IV



WESLEY KUFELD
Facilities Manager
HCA Florida Largo Hospital
Largo FL
DISTRICT III

CONSTANTINE COSMOS
Director of Plant Operations
Palm Beach Gardens Medical Center
Palm Beach Gardens FL
DISTRICT IV

ROBERT MERVIN
Plant Supervisor
Baptist Medical Center South
Jacksonville FL
DISTRICT II

PEDRO CRESPO
Energy and Sustainability Manager
Moffitt Cancer Center
Tampa FL
DISTRICT III

EMANUEL PECHEANU
Supervisor - Facilities
Memorial Hospital Pembroke
Pembroke Pines FL
DISTRICT IV

JOHN FREEZE
Sr. Manager Campus Operations
AdventHealth
Altamonte Springs FL
DISTRICT III

CRANFORD ROBERTS
Assistant Supervisor-Facilities Operations
Mayo Clinic
Jacksonville FL
DISTRICT II

JEFFREY JONES
Manager of System Facilities and Maintenance
Brooks Rehabilitation System
Jacksonville FL
DISTRICT II



FLORIDA HEALTHCARE ENGINEERING ASSOCIATION

The mission of Florida Healthcare Engineering Association, an affiliate of American Society of Healthcare Engineering (ASHE), is to promote the professional role of the healthcare engineer and advance the development of healthcare engineering through effective communication, educational opportunities, and establishment of professional standards.

WELCOME NEW SUPPORTING MEMBERS (AS OF LAST PUBLICATION)

NOEL ALLEN
Mechanical Engineer
BR+A Consulting Engineers LLC
Coral Gables FL 305-503-6287
nallen@brplusa.com

KAMEREN BELLE
Green Air Environmental
Debary FL 407-669-5385
kbelle@greenairenv.com

JACOB BISSON
Principal Electrical Engineer
Burns Engineering Inc.
Tampa FL
j131bisson@gmail.com

FRANK BOTTIGLIERI
Business Development Manager
Convergint
Lake Mary FL
frank.bottiglieri@convergint.com

SARAH BRADFORD
Director of Client Relations
Insite
Belleair FL 804-986-6904
sarah@incue.app

EDGAR CAMPES
Project Manager
KTH Architects
Orlando FL
ecampes@ktharch.com

PAUL CAMPOSEO
Sales Manager
A Total
Tarpon Springs FL 727-942-1993
P.camposeo@atotalsolution.com

RACHEL CANNON
Business Development
Affiliated Engineers SE, Inc
Newberry FL 352-264-3346
Rcannon@aeieng.com

CHRISTOPHER CASTILLO
Vice President of Business
Alfresco Air
miami FL
ccastillo@alfresco-air.com

PAUL COON
Director - Digital Power Solutions
Stark Tech
Longwood FL 407-859-6802
coon@starktech.com

RENE CUENCA
President
Eco Water Restoration
Miami FL 305-647-8772
Rcuencaewr@gmail.com

BRANDON DAUGHTRY
Sales representative
Forbo Flooring Systems
Hazleton PA 225-305-2668
brandon.daughtry@forbo.com

NICHOLAS DAVIS
I.C. Thomasson
Tampa FL 508-254-5513
ndavis@icthomasson.com

JEFF DEITSCHEL
Project Executive
Turner
Tampa FL 813-853-4440
jdeitschel@tcco.com

JERRY EDMONDS
Sales Consultant
Sani-Chem Inc.
Clearwater FL
Jerry.edmonds@sani-chem.com

LEVI FERGUSON
Account Representative
Daikin Applied
Tampa FL 813-624-0784
Levi.Ferguson@daikinapplied.com

DAVID GIRGIS
Enterprise & Commercial Sales Manager
Everon LLC
Tampa FL 941-525-4474
Dgirgis@everonsolutions.com

MICHAEL GRIFFIN
Associate Account Representative
Daikin Applied
Orlando FL 407-840-4295
michael.griffin@daikinapplied.com

ALEJANDRO HENAO
Sales engineer
Stan Weaver
Orlando FL
ahenao@stanweaver.com

MARK IZSA
Strategic Accounts Manager, Healthcare -
South Atlantic
STI Firestop
Somerville NJ 973-271-8894
mizsa@stifirestop.com

ANDREW JODWAY
Vice President
Layton Construction
Nashville TN
ajodway@laytonconstruction.com

JULIE JOHNSON
Senior Lighting Designer
AKLD Lighting Design
Wilmette IL
jjohnson@akld.net

JOLYNNA KING
Director of Business Development
Yorkshire Sales - Commercial Flooring
Distributor
Longwood FL 352-586-6501
j.king@yorkshire.com

ANDREW LIPNICK
Commerical Account Executive
Johnson Controls
Jacksonville FL 904-460-8319
andrew.lipnick@jci.com

CODY LYNCH
Special Projects Department Manager
Harper Limbach
Lake Mary FL 407-637-9369
cody.lynch@harperlimbach.com

JARED MALTBIE
Assistant Project Manager/Sales
Western Specialty Contractors
Winter Park FL 407-647-4175
jaredm@westerngroup.com

TIMOTHY MCHENRY
General Manager - Orlando
First Onsite Restoration
Orlando FL 800-622-6433
timothy.mchenry@firstonsite.com

STEPHEN MCTIGUE
Sr Account Executive
FSI
Palm Bay FL
smctigue@fsiservices.com

DIANA MENDEZ
Healthcare Regional Territory Manager
Garland Industries
Cleveland OH
dmendez@garlandco.com

ROD MOCK
Director
Pointcore Construction
Ocoee FL 321-200-6282
rod.j.mock@pointcore.com

BRIAN MOSEY
National Account Mgr. Healthcare
Valcourt Group
Bradenton, FL 34203
bmosey@valcourt.net

WELCOME NEW SUPPORTING MEMBERS (AS OF LAST PUBLICATION)

SEAN O'CONNELL
Service Manager
All Phase Electric and Maintenance
Tampa FL 813-876-7074
seano@allphaseelectricfl.com

WINTON PATE
AVP/General Manager
Harper Limbach
Lake Mary FL 407-848-8573
winton.pate@harperlimbach.com

JOSE RODRIGUEZ
Healthcare Compliance Specialist
DynaFire LLC
Casselberry FL 407-830-6500
jose.rodriquez@dynafire.com

JAY SCARRY
National Sales Director
Servpro
Lake Park FL 772-285-2022
jscarry@servpro9347.com

JAKOB SCHOENIKE
Sales Manager
Lektraflor
Calhoun GA 877-807-0878
Jake@lektraflor.com

HARRY SIM
CEO
Cypress EnviroSystems Inc.
San Jose CA 408-307-0922
harry.sim@cypressenvirosystems.com

GARY SNOOK
Regional Sales Director
Ascom
Morrisville NC 919-907-8621
gary.snook@ascom.com

TIMOTHY STRIMPEL
Outside sales Rep
IDN
Tampa FL 813-886-8007
Tstrimpel@idnarmstrongs.com

ARTHUR STUTZ
Business Development Manager
Rebuilders Group
Freeport FL 850-842-9155
arthur@rebuildersgroup.com

JOHN SWIFT
Principal
Buro Happold
Boston MA
john.swift@burohappold.com

KELSEY TAYLOR
Regional Sales Director
Translogic
Westminster CO 321-468-0849
kelsey.taylor@swisslog-healthcare.com

PHIL TREZZA
Managing Principal, Tampa
Harvard Jolly PBK
Tampa FL 813-286-8206
h.marketing@harvardjolly.com

KATELYN TYLER
Equipment Sales Engineer
Brooks Building Solutions
Jacksonville FL 904-412-3540
ktyler@brookssolutions.net

MIGUEL VELEZ
Sales Engineer
ACF Standby Systems
Orlando FL 407-677-4200
m.velez@acfpower.com

TIM WALLICK
Sales Executive
Cortez Heating & Air
Palmetto FL
timwallick@cortez-ac.com

KATIE WILES
Business Development Manager
Raymond
Windermere FL
industry.events@raymondllc.com

JENNIFER WILLIAMS
Sr. Product Manager
Surgically Clean Air
Tampa FL 877-440-7770 x210
jennifer@surgicallycleanair.com

RICARDO WILLIAMS JR
Sales Representative
Cortez Heating & Air
Palmetto FL 941-538-8888
ricardowilliams@cortez-ac.com

SEAN WILLOUGHBY
HVAC Service Manager
Comprehensive Energy Service
Longwood FL 407-948-2122
swilloughby@cesmechanical.com

FHEA Continuing Education & CHE Certification

As part of our mission, the Florida Healthcare Engineering Association promotes and develops the professional role of the healthcare engineer through effective communication, educational opportunities, and the establishment of professional standards. At our bi-annual educational conferences, not only does the FHEA provide ASHE CE, we also offer continuing education units for Florida Architects, Florida Interior Designers, and Florida Professional Engineers.

FHEA also offers certification in the form of the Certified Healthcare Engineer. Highly regarded by the state's healthcare facilities, this certification is available to all healthcare facility members who meet established standards of proficiency, development, and continuing education.

IMPORTANT UPDATES TO KNOW**ASHE SPEARHEADS CONCEALED SPRINKLER CODE PROJECT**

The American Society for Health Care Engineering (ASHE) is actively gathering data on concealed fire sprinklers to enhance safety protocols. Concealed sprinklers, defined in the National Fire Protection Association's NFPA 13, Standard for the Installation of Sprinkler Systems, and referenced in NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems, are designed with a cover plate to aesthetically blend into the ceiling, making them less obtrusive. In 2022, the NFPA 25 committee proposed a five-year inspection interval to align with other maintenance activities requiring similar equipment, optimizing resource utilization.

ASHE SUCCESSFULLY DEFENDS REMOTE INSPECTION VOTE

ASHE's Advocacy Team helped to secure a vital win at a recent National Fire Protection Association (NFPA) council meeting. The issue at hand concerned damper inspection requirements in the 2025 editions of NFPA 80, Standard for Fire Doors and Other Opening Protectives, and NFPA 105, Standard for Smoke Door Assemblies and Other Opening Protectives.

After hearing testimony from two sides, the NFPA Standards Council voted to uphold a 2024 NFPA Technical Meeting vote to remove the visual inspection requirement for fire/smoke dampers every 18 years in cases where hospitals utilize remote monitoring methods instead.

FGI ISSUES INTERPRETATIONS ON 2022 GUIDELINES

The Facility Guidelines Institute issued two interpretations to the 2022 Guidelines for Design and Construction of Hospitals. The first impacts Section 2.2-2.3 (Oncology Patient Care Unit). The interpretation committee agreed that where an oncology patient care unit and a bone marrow/stem cell transplant unit are collocated on the same floor, an airborne infection isolation/protective environment room is required for each unit.

The second was issued for Section 2.2-2.10.11.12 (Support areas for recovery spaces for cesarean delivery suite) and determined that a bedpan-rinsing device on a patient toilet could be an equivalent way to meet Section 2.2-2.10.11.12 (16) (Clinical sink) requirements.

ELECTRIC VEHICLE (EV) CHARGING STATIONS AT FACILITIES

What are organizations implementing for their emergency management plans and code compliance about electric vehicle (EV) charging stations at facilities such as parking garages and hospitals? Lithium-ion battery charging stations and batteries are technologies that came about faster than the codes have been written. The National Fire Protection Association (NFPA) has several tips and safety sheets, as well as training materials for first responders. NFPA's Fire Protection Research Foundation also has started to study the issue. Additionally, the International Fire Code is beginning to address some of these concerns. It's important to work with your local fire department to determine if there are any access issues in the event of an emergency. Completing a risk assessment can help write a policy for your organization to follow for installation, safety, and emergency response. Check also with your insurance carrier. Many will not allow EV charging stations in garages, and the American Society for Health Care Engineering (ASHE) also recommends against locating them in garages. Additionally, be sure to look at EV micromobility devices, such as electric bikes and scooters. We have banned charging of battery-powered scooters or bikes inside any buildings, and ASHE recommends they be prohibited in hospitals. Manufacturers can vary on the quality of their battery-powered products, and many facilities feel prudent avoidance is the way to go.

(HFMMagazine.com; November/December 2024)

DEMAND RESPONSE (DR) IS AN EPA-FRIENDLY PATIENT SAFETY TOOL

By Dan Chisholm
CEO, MGI Consulting, Inc.

On June 26, 2023, The Environmental Protection Agency wrote in the Federal Register they wanted comments on whether to extend the provision allowing for a 50-hour participation in Demand Response (DR) events.

The EPA reported on page 41368 of the Federal Register/Vo. 88, No. 121, that “Based on reported information, in the last few years, there appears to have been very little need for engines to operate for the purpose specified in the 50-hour provision.”

“In light of this limited information on current use and the court’s vacatur of the 100-hour provision, it may be appropriate to eliminate the 50-hour provision, rather than seeking to revise it to tailor the provision more carefully to be consistent with its original rationale and the court’s decision on the 100-hour provision. Therefore, in this proposal, we are also soliciting comment and information on the 50-hour provision as we consider whether to propose removing these provisions from the CFR or whether we should propose changes to the provision...”

Briefly, the EPA was trying to eliminate the 50-hour provision since it had not been used much due to the grid’s general stability. I found that a tad puzzling since the grid is more vulnerable than ever, especially with cyber-attacks happening more frequently (Ask your utility rep what is being discussed in Public Service Commission meetings across the U.S.).

Fortunately for the public, the issues were at least temporarily settled since the EPA received over seventy responses stating it was a bad idea. But the battle, according to some, has just started. Behind closed doors I think you would hear that the main reasons some politicians got on the band wagon was to curtail running anything powered by diesel fuel, i.e., **excess emissions!**

CONCERNS VS. FACTS

- **CONCERN: DR will increase the hours on the generators thereby shortening their useful life.**

FACT: Duke Energy, as an example, since 2004 has called for an average of 22.6 minutes per year run time during Called Events (CE). If this were equated to a car running at 1800 RPM (the normal for 60hz current)—or about fifty miles per hour—it means an extra 7.5 hours over a 20-year period, or 375 miles. The required four 2-hour quarterly tests (QTs) used to verify the EPSS’s reliability would add only another 400 miles per year, or a total of 8,375 miles over a 20-year period without considering simultaneous required tests (see CONCERN 5 below).

- **CONCERN: Hospitals do not like surprises and interruptions, especially during surgical procedures.**

FACT: Advance notices of CEs and QTs are always transmitted from the utility to the hospital several hours before. This is different from an actual power outage when no notice is given. If there is an interruption, it will be for only milliseconds, or if Closed Transition Transfer Switches (CTTS) are in place the transfer will be seamless. No 10-second blackouts during transfers.

- **CONCERN: Excess engine run time increases emissions and contributes to pollution.**

FACT: Engines that qualify under EPA DR guidelines for some Tier 2 and all Tier 4 engines are deemed to be environmentally safe. In addition, since CEs are never called unless the utility senses an issue with the grid, running the qualified engines precludes the need for non-Tier rated engines (without emissions reductions components) from running, which reduces emissions that would occur during an actual outage. Therefore, DR is an EPA-friendly tool. Plus, any CE that lasts longer than normal means a utility outage has been prevented that would have resulted in having only one source of power.

DEMAND RESPONSE (DR) IS AN EPA-FRIENDLY PATIENT SAFETY TOOL (CONTINUED)

- **CONCERN: Hospital guidelines do not allow surgical procedures when generators are the only source of power.**

FACT: This is the law. However when there is a CE or QT, utility power is never unavailable at the automatic transfer switches (ATSS). Therefore, you always have two sources of power. And if you do lose utility power, you are already on emergency power, or you have an immediate transfer to the emergency source, without the dreaded ten-second-or-less delays. If I am on the table under a neurosurgeon's knife (some say it is needed), I would prefer to have both power sources available, so my case will not be interrupted. I will pay for the diesel fuel in any event.

- **CONCERN: QTs increase my required testing by eighty tests over a 20-year period, not including the triennial test.**

FACT: Not really, if planned properly. All 80 tests can be completed during the normal and required monthly and triennial tests per NFPA 110, 8.4.1.1: "If the EPS is used for standby power or for peak load shaving, such use shall be recorded and shall be permitted to be substituted for scheduled operations and testing of the EPS, providing the same record as required by 8.3.4."

- **CONCERN: If my T4 engines run out of Diesel Exhaust Fluid (DEF) during the tests they will shut down.**

FACT: NFPA 110, 5.6.5.5.1 (TIA) for 2025 states: "Where used for permanent Level 1 applications EPA mandated inducement engine shutdowns due to emission systems controls that are required on T4 certified engines with SCR shall be prohibited."

Summary

Demand Response improves the patient's experience while protecting the environment—worthy of CEO appreciation.

Further Considerations:

- Since some engine/generators will have to be replaced with T4 units, the cost can be substantial but EaaS programs and utility credits can increase and accelerate ROI. In some cases, monthly utility credits can reduce paybacks to less than two years.
- Nameplate information should be used to obtain engine "build data", so emissions figures can be reviewed by selected EPA officials to determine if an engine qualifies for a DR program.
- An All-Hazards Risk Assessment (AHRA) should be performed to root out any Single Points of Failure (SPOF) in the Emergency Power Supply System (EPSS). Some utilities can impose suspension of credits if an EPSS cannot adequately perform during a CE or QT. Performing this assessment also provides a facility an opportunity to access budget requirements for the replacement of critical components.

Dan Chisholm, CHEPP, is the CEO of MGI Consulting in Winter Park, Florida. Dan's recognized leadership in the emergency power industry spans decades, having provided Emergency Power Supply Systems (EPSS) consulting services to over 1,650 healthcare facilities.

He currently chairs the National Fire Protection Association's Technical Committees responsible for NFPA 110, Emergency and Standby Power Systems, NFPA 111, Stored Electrical Energy Emergency and Standby Power Systems. He is a technical committee member of the Electrical Section of NFPA 99, Health Care Facilities Code, and a primary emergency power consultant to the U.S. Army Corps of Engineers.

INVEST EARLY FOR GREATER RETURN ON INVESTMENT: HOW TO MAXIMIZE ASSET LIFE WITH PAVEMENT MANAGEMENT

Delivering Success thru Facilities, Geotechnical, Materials, Engineering, & Testing
January 7, 2025 (originally written on February 11, 2022)



Our technology-focused, fast-paced world has created increased demand to deliver consumer goods in an efficient and expedient manner. Truck delivery logistics depends heavily on our nation's roadway infrastructure, which are comprised of different types of paved highways, roads, and bridges. Paved roadway surfaces require consistent maintenance using proactive pavement management plans to avoid significant deterioration and repair costs, and to maintain human welfare and safety standards for all vehicle users. In 2021, the American Society of Civil Engineers (ASCE) compiled an infrastructure report card that rated our country's roadways as a "D," and further estimated that over 40% of our roads are in poor to mediocre condition.

Simultaneously, businesses, school systems, universities, and hospitals that own paved surfaces (i.e., parking lots, drive lanes, walking surfaces, etc.), are faced with several challenges in managing their assets. Facility owners balance many things: daily operations, purchasing equipment, maintaining their facility, employee satisfaction, safety, and more. Pavement assets are rarely considered for annual budgets when potholes or cracks are limited. The reality is that a failure to plan and invest in routine pavement maintenance through a master management plan typically yields expensive repair and reconstruction costs along with extensive disruptions to the operation.

Pavement maintenance might be little more than an afterthought, but degrading pavement conditions can adversely affect businesses in a variety of ways. Potholes and large ruts can damage trucks and other equipment, affecting the serviceability of these assets. Poor pavement conditions will also slow down traffic, which can ultimately lead to service delays. In addition, damaged walking surfaces create a larger probability of injury to pedestrians. How are owners and consultants addressing these issues?

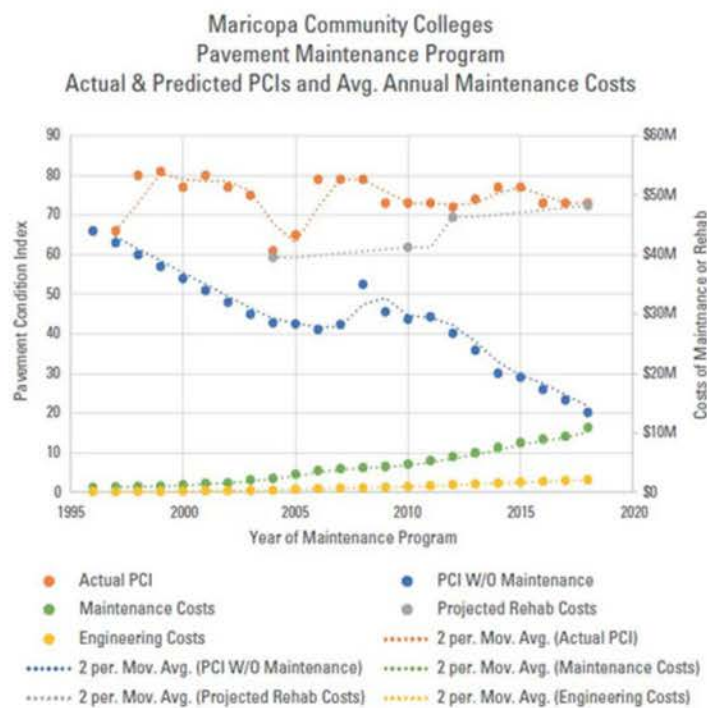
(Continued next page)

INVESTING IN THE LONG-TERM PERFORMANCE OF PAVEMENTS

A pavement management plan uses a scientific and scalable ASTM approach to first objectively assess existing assets, then develop maintenance and rehabilitation plans followed by estimated budgetary needs. Pavement engineers and consultants perform Pavement Condition Index (PCI) surveys to understand the types and severity of distresses present on a pavement and provide recommendations to address them.

Our pavement experts advise clients to invest in pavements early to ensure the assets remain serviceable and safe for end-users while optimizing capital expenditures to prolong asset life. This effort will help avoid the cost and delays associated with complete reconstruction of failed pavement systems.

Below is an illustration of our experience with a large community college system client that partnered with Terracon to establish a pavement management system starting in 1996. Over the course of 20 years, we have successfully managed the serviceability and maintenance of the pavement network at the 32 college campuses/properties with an overall budget of about \$15 million. Without a pavement management plan, the estimated cost to repair or replace pavement systems at the time of failure or absolute need would have exceeded \$50 million. Our experienced professionals can put together a plan to assist facility owners efficiently maintain their pavement systems for years to come.



By: Andrea Blanchette, a pavement engineer and group manager for Terracon's Minneapolis office, has nearly 12 years of experience in the pavements, pavement forensics, and construction materials industries. She has assisted the private sector as well as municipalities including cities, counties, and townships with pavement management plans.

2025 FHEA BOARD OF DIRECTORS



PRESIDENT

Kirk Dickson, CHFM, CHC, CHE
AdventHealth



VICE PRESIDENT

John Newman, CHSP, CHC, CHE
AdventHealth Palm Coast



SECRETARY

Edgard Nieves, MBA, CHC
Memorial Regional Hospital



TREASURER

Bobby Baird, FASHE, CHFM,
CHSP, CHE, CHC
UF Health - Shands



PAST PRESIDENT

Adam Mayle, CHFM, CHE, CHC
Memorial Regional Hospital



FHEA EXECUTIVE DIRECTOR

Sarah Jeffcoat



FHEA EDUCATION AND CONFERENCE COORDINATOR

Marty Streeper

DISTRICT I

PRESIDENT

Kevin Daniel, CHE, CHFM
Jackson Hospital

DISTRICT II

PRESIDENT

Jeffery Howard, CHE
Mayo Clinic

DISTRICT III

PRESIDENT

Tony Echazabal, CHFM, CHSP,
CHE
Cleveland Clinic Florida

DISTRICT IV

PRESIDENT

Luis Rodriguez, CHE
Memorial Hospital West

REPRESENTATIVE

Phil Cardone, CHE, CHFM
Baptist Hospital & Jay
Hospital

REPRESENTATIVE

Jim Dixon, CHFM, CHC
Baptist Medical Center S

REPRESENTATIVE

Anthony Muglia
Orlando Health-Bayfront Hospital

REPRESENTATIVE

Cecily Allen, CHE
Broward Health Coral Springs

FHEA COMMITTEES

Education

John Crouch
AdventHealth Wesley Chapel

ASHE Region 4 Liasion

Larry Peterson, CHE, CHFM, CHSP

Bylaws

Kevin Daniel, CHE, CHFM
Jackson Hospital

Codes & Standards

Phil Cardone, CHC, CHFM
Baptist Hospital & Jay Hospital

ASHE Sustainability Liasion

Edgard Nieves, MBA, CHC
Memorial Regional Hospital

Membership Development

Jennifer Bello, CHFM
HCA