I would also like to welcome the 2019 board of directors. The FHEA board of directors is committed to continuing the mission of this organization and dedicated to supporting the growth and promotion of our members with educational opportunities through seminars, workshops, business meetings, trade shows, and training programs.

The FHEA would like to thank Kevin Daniel for his contributions as FHEA president in 2018. Kevin had a challenging year, as the northern part of Florida was struck by Hurricane Michael in October causing the FHEA to shorten the annual FHEA Annual Meeting and Trade Show™. Hurricane Michael caused over $4.5 billion in damages in Florida and forced several healthcare organizations to interrupt services, and in some cases, evacuate.

As a result of this event, the FHEA immediately swung into action to support those in need. Members answered the call to help by opening their own homes and providing places to live for members and their families who were displaced. These selfless actions are a true testament to the strength of our organization, professionalism of our members, and demonstrates how we are ready to support each other in times of distress.

Our new vice president, Wayne Gibbs, is working hard to support the FHEA with maintaining our ASHE Platinum Chapter Award. Wayne brings much knowledge and experience to the organization and will make a fine president in 2020.

The FHEA, in 2019, will deliver excellence once again by seeking new opportunities for education and growth. The first program the FHEA is proud to announce is the "Hospital Sustainability Collaborative."

For the first time, the Florida Hospital Association (FHA) and the FHEA will be uniting forces to launch this intensified multi-year program across the state. The FHEA and FHA will be providing educational sessions, webinars, and direct support to members on different aspects of sustainability. The year-one focus will be on energy management, and the FHEA will be seeking participation from members.

The FHEA will also be offering members the opportunity to achieve a Certified Healthcare Emergency Power Professional (CHEPP) designation at an FHEA exclusive discounted rate offered by MGI Systems. This information will soon be available at www.FHEA.org.

The FHEA is an organization of giving. In 2018, our organization provided over $27,000 in scholarships, sent care packages to our country’s military troops in Afghanistan, and gave new coats to children in the Florida panhandle who had been affected by the hurricane disaster. In addition to state-level programs, the FHEA districts were also active in charitable events.

Please do not miss our upcoming events in 2019. On May 15-17, the FHEA will be hosting the 35th FHEA Spring Meeting which will held at Pier 66 Hotel Marina in Fort Lauderdale. The theme of this year’s Spring event is “Charting the Course.” In addition to the top educational sessions and networking, the FHEA will host a golf scramble, and the addition of a fishing tournament.
President’s Message (Continued)

On October 6 – 9, please mark your calendars for the 35th Annual AHCA Seminar and FHEA Annual Meeting and Tradeshow™ held at the Orlando World Center Marriott. Once again, our annual event will deliver the best in education and Florida’s largest healthcare facilities tradeshow.

In closing, I want to thank our members and supporting members. Without you, the FHEA would not be the success it is today. In 2019, we want to grow our membership and expand our efforts. Please take a moment to join our Florida Healthcare Engineering Association group on LinkedIn. The FHEA will be utilizing this social media group to promote real-time information.

Thank you for allowing me to serve the FHEA and its members. It is an honor to have this opportunity. Please feel free to contact me at president@fhea.org.

REGISTRATION FEES

Registration fees include educational materials, receptions, continental breakfast, luncheon, and networking break.

<table>
<thead>
<tr>
<th>Membership Category</th>
<th>Fee</th>
</tr>
</thead>
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<tr>
<td>FHEA Members (Active Healthcare Engineers)</td>
<td>$65.00</td>
</tr>
<tr>
<td>FHEA Certified Engineers (CHE)</td>
<td>$55.00</td>
</tr>
<tr>
<td>FHEA Supporting Members</td>
<td>$125.00</td>
</tr>
<tr>
<td>Non-members</td>
<td>$225.00</td>
</tr>
</tbody>
</table>

Optional Activities, such as the Fishing Tournament and Golf Scramble, are available at no cost for FHEA Active Healthcare Engineers. Supporting Members may register to participate in either event as a sponsor.

For More Information, visit the FHEA website: https://www.fhea.org/2019-spring-meeting
REGISTRATION IS OPEN!

Hospital Sustainability Collaborative
May 16 at 2:30 pm

The FHEA is joining the Florida Hospital Association (FHA) in launching the Hospital Sustainability Collaborative. Hospitals increasingly are looking for ways to improve efficiency and reduce overall costs while also improving the overall patient experience. One often overlooked opportunity is sustainability. Making an active commitment to sustainability and aggressively pursuing goals provides multiple strategic benefits that can help healthcare facilities thrive. The FHEA & FHA are committed to supporting members to launch or improve their sustainability programs.

Program Speakers:
Alexa Stone, LEED AP, SFP, ENV SP, Mital Hall, and Kevin Dupree with ecoPreserve

Friday, May 17th Education

“An Emergency Calls for an Expert Response”
Chip Gruber, Eric Schmidt, and Mark Smith, GHP Environmental; Kevin Daniel, CHE, CHFM, Jackson Hospital; Scott McCormick, CHFM, CHSP, Medxcel Sacred Heart on the Gulf

“Emergency and Power Monitoring for Hospitals”
Jim Taufer, Schneider Electric

“Mobility and the Cloud: Keys to Achieving Compliance and Streamlining Emergency Responsiveness”
Todd Moore, ARC Technology Solutions

“Evaluating the Security Risks of the Modern Patient Experience”
Sean Mehner, Connecticut Information Security
A South Florida icon for over half a century, Pier Sixty-Six Hotel & Marina is the ultimate waterfront retreat. This landmark hotel is set on 22 tropically-landscaped acres and is located just minutes from Fort Lauderdale Beach. The hotel has a full-service marina and aquatic center; a variety of dining options; a trio of pools; a boutique spa, where you will receive a 20% discount for spa services, and a fitness center, with complimentary access; tennis; and with any room selection, you will enjoy a relaxing stay with thoughtful amenities and spectacular views.

WiFi is complimentary in sleeping rooms and public space. There is also a complimentary shuttle to the beach, and best of all, there are no resort fees.

**Run-of-house Marina group room rates are $169 for single/double plus current taxes of 12%. There is no additional charge for children under 17 staying in their parents’ room.**

**Reservations should be made by Wednesday, April 24, 2019 in order to receive the FHEA group rate. If you are interested in upgrades to specific views or room types, let the reservationist know. Additional pricing will apply.**

Based on hotel availability, the FHEA group room rates will apply three days before and three days after the official meeting dates. All reservations must be guaranteed by a valid major credit card and any guaranteed reservation not cancelled by seventy-two (72) hours prior to arrival will be subject to one night’s room charge and taxes.

Hotel check-in time is 4:00 pm and checkout is 11:00 am. Guests who arrive prior to 4:00 pm will be accommodated as rooms become available.
What’s New in FHEA Education Opportunities?

Jeffrey Walters, CHE, CHFM, CHC, CHEPP; FHEA Education Chair

I hope this posting finds you well, taking on the new year, and ready to take on another summer. As your Education Chair, I believe the most important thing we can do as an organization is to provide valuable, current, and timely education to our membership. Your FHEA team works very hard to provide learning opportunities at our two conferences, which occur each spring and fall.

Post-conference evaluations feedback has helped us identify new education topics from your suggestions. Both speakers and presentations have scored very high for quality and content, and the evaluations have been positive. With that said, we know things change constantly, and we have to stay on top of the changes that come our way each day. If you have education needs, please be sure to pass them on to us at info@fhea.org. Our staff will forward your suggestions to our board and me. A wise man once told me, “you don’t know, what you don’t know” and that has changed how I look at education during my career.

I have always believed the more education we can provide our team members in the hospital, the easier it makes our jobs as directors. With that process in mind, we will be looking for ways to provide education to your staff as well as our current members.

We are pleased to announce that the FHEA has partnered with Motor Generator Institute, MGI, to provide a 15% discount on the “Certified Healthcare Emergency Power Professional” certification program. I have completed this program personally to review for content and level of education to pass. This certification program is perfect for your staff that tests and operates your emergency power system and is a great tool for front line staff to understand all the standards, requirements, and best practices that come with testing the power systems that serve our patients. Most importantly, it validates their knowledge of the power systems as developed by Dan Chisholm, Sr. a power systems expert, and longtime supporter of the FHEA. If you have multiple team members who need the training, a multi-person discount is also provided by reaching out to MGI directly on their web site, and Danny Chisholm, Jr. will take care of providing a group rate. Watch for the link on our FHEA website to apply with the discount code.

In closing, I look forward to working with you, bringing more exciting new training opportunities, and seeing you at the 35th FHEA Spring Meeting at Pier 66 in Fort Lauderdale, May 15 – 17. For registration information, visit fhea.org

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Codes & Standards Update  Bobby Baird, SASHE, CHE, CHFM, CHSP; Codes & Standards Chair

As a facility operations manager, there are multiple codes and standards with which we must comply. Often, the most current code is not the edition we are held accountable to. The agency performing the survey will use the currently approved version for the agency that they represent. Given this predicament, assembled below are resources available online that provide the latest guidance to assist in making the right decision. The links and documents are also available on FHEA.ORG under the codes and standards section.

The first code reference is the tool ASHE developed which provides a crosswalk between NFPA, ICC, and the Joint Commission standards. This is a national tool that does NOT take into account state level regulations. This may be found at; http://www.ashe.org/resources/member/downloads/ASHE-K-Tag-Crosswalk.pdf.

The state of Florida approves codes for use by AHCA and facilities under AHCA’s jurisdiction. The latest approved codes may be found at; https://www.flrules.org/gateway/RuleNo.asp?id=69A-3.012 Click view rule in upper left corner. The state fire marshal updates the Florida rules every three years, with December 2020 being the next anticipated update. Worthy of note, AHCA and CMS are on different versions of NFPA 101, AHCA 2015, CMS 2012. AHCA requires all fires and explosions be reported within 15 days of the event. The Fire Incident Report may be found at; http://ahca.myflorida.com/MCHQ/Plans/pdfs/Fire.pdf Many of the Florida requirements can be found at; http://ahca.myflorida.com/MCHQ/Plans/Forms_Rules_Presentations.shtml


These tools will be kept current on the FHEA.ORG website, keep up the good battle while ensuring the building occupants safe.
Thank you to these Supporting Member Companies who partner with the FHEA to bring value to the Association.

AAF Flanders  
Advanced Roofing Inc.  
Andrews Filter & Supply Corp.  
ARC Technology Solutions  
ASSA ABLOY Door Security Solutions  
Acoustiblok  
Barton Malow Company  
BeaconMedaes  
BOS Technology  
Burns Engineering  
Dynamic Air Quality Solutions  
Empire Roofing  
Envinity, Inc  
Flow Control Technology Co LLC  
GHP Environmental + Architecture  
Gilbane Building Company  
Golder  
Green Building Innovations, Inc.  
Healthcare Facility Solutions, LLC  
Industrial Engineering  
Jantech Services Inc.  
LSS Life Safety Services  
McEnany Roofing, Inc.  
McKimCreed  
Medical Technology Associates (MTA)  
Momar, Inc.  
MSI Emcor (Mechanical Services of Central Florida, Inc.)  
NE Firestopping Solutions  
Paladin Healthcare LLC  
PBA Design Group  
Powerhouse Equipment  
Pure Air Control Services, Inc.  
Pureflow, Inc.  
RLF Architecture Engineering Interiors  
Sherwin Williams  
Siemens Building Technologies, Inc.  
Spirax Sarco  
SSR  
Starc Systems, Inc.  
STI Firestop  
Structural Technologies  
Swisslog Healthcare  
TLC Engineering for Architecture  
Tremco, Inc.  
Tri-Dim Filter  
Victaulic  
Voight Professional Services  
Waco Filtration Group / Sterilaire  
Yorkshore Sales/Anchor Floor & Supply
Indoor Air Quality Solutions

By Robert Goodfellow, CAFS; Vice President of Marketing, Dynamic Air Solutions

The healthcare industry has made great progress in implementing strategies that lower risks, improve building efficiency, and reduce carbon footprints. Many measures are geared to reduce heating and cooling system energy consumption. Today, advances in air cleaning technologies are helping to take these strategies to the next level. MERV15+ systems such as the Dynamic V8 Air Cleaning System can clean the air of biologicals, ultra-fine particles, nuisance odors, and volatile organic compounds (VOCs) while substantially reducing energy consumption and operational costs.

High efficiency air cleaners can remove dangerous, ultra-fine airborne particles such as particulates from combustion engine exhaust pulled into buildings from heliports, ambulance bays and covered loading/unloading zones. Issues with odors and/or VOCs will also impact the type of filtration. Medical facilities and assisted living facilities are common examples of applications where odor and VOC issues can be expected. Today, the most popular technologies that address these gas phase contaminants include polarized-media air cleaners, carbon filters, and photo-catalytic oxidation (PCO). High efficiency air cleaners can provide effective control of airborne organisms including viruses, bacteria, molds and mold spores. Systems that collect mold spores reduce the risk of potential mold problems by removing mold spores from the air stream, as well as sub-micron particles, which can provide a food source for mold and pathogen growth. Technologies that address biologicals (living airborne organisms) include polarized-media air cleaners, HEPA filters, and ultraviolet germicidal lamps. Some produce Ozone, and some do not.

Healthcare facilities can find significant operational savings in new air cleaning technologies through:
- Reduced fan horsepower from lower static pressure
- Reduced maintenance costs from longer service intervals
- Reduced disposal costs

Historically, increasing filter efficiency meant increasing energy and operating costs because it takes more fan horsepower to push air through denser filter media. Lower static pressure also corresponds directly to lower brake horsepower. Since brake horsepower drives fan energy, lower static pressure corresponds directly to energy savings.

In an amendment within ASHRAE Standard 90.1-2007, a standard has been set for allowable brake horse power for each type of system and space use. Section 6.5 of the 2007 version of ASHRAE 90.1 (HVAC Air System Design and Control) sets allowances for brake horsepower based upon system type and application. While these allowances can often be difficult to meet with traditional high-efficiency passive filtration, newer advanced air cleaners can help to meet them.

The third largest energy cost item in a healthcare setting is the energy needed to move air through the heating and cooling systems. Lowering static pressure is one of the most effective and measurable ways to immediately reduce the total energy used by the HVAC system. Newer active field electronic air cleaners offer relatively low resistance. In some cases, there can be mid-life pressure drop savings of up to 1.5” versus passive, mechanical filters. This allows fans to be designed and selected with lower break horse power requirements and potentially far less operational energy consumption. For example, in a hospital with 300 filters operating on an average of 0.5” lower in pressure drop during use equates to $26,669 in annual energy savings (based on $0.10 per kWh).

Polarized-media filters last longer than conventional passive filtration due to very high dust-holding capacity, often extending change-out intervals from several months to several years and lowering labor, ordering, handling, storage and disposal costs.

For instance, a 2” deep MERV 13, 24”x24” filter holds approximately 40 grams of dust before it reaches its dirty design static pressure of 1.4” w.g. Therefore, if the average building produces 130 grams of dust per cubic meter each month or 48 grams per 24”x24” filter, a 2” deep MERV 13 filter would have to be replaced every two weeks, a 4” deep MERV 13 filter every month, etc. to keep the static below 1.4” and maintain a mid-life static pressure of around 0.9”, not including the impact from a pre-filter. By comparison, the Dynamic V8 Air Cleaning System can hold up to 2,600 grams of dust at the recommended change state of 0.6”, or twice its initial static pressure. An air cleaner that holds 10 times the dust of cartridge and bag filters and up to 100 times the dust of shallow-bed passive filters will greatly impact maintenance intervals and other ongoing costs of filtration.
Additionally, regulations in effect in many areas of the country require air filters used in medical facilities to be bagged. Disposal costs alone for bagged waste can top $480 per ton or more – 19 times the cost of ordinary solid waste.

When HEPA filters are required as point-of-use filtration, using the Dynamic V8 as a secondary filter can extend the life of the HEPA filter substantially (5-8 times). With HEPA filters costing between $400-500 this can contribute to substantial savings.

Many healthcare organizations with CSOs and/or sustainability directors are actively looking for new sustainable solutions. Air cleaning systems can help reduce carbon footprints and lower CO₂ emissions by reducing fan horsepower. And air cleaning systems like the Dynamic V8 can help earn up to three LEED® points.

Comparing initial price to trade-offs in life cycle costs and operating costs becomes increasingly important as the need for high efficiency filtration increases. Fan horsepower and system static pressure greatly impact energy consumption. Filter replacement costs and length of maintenance intervals influence ongoing operational costs. All these costs should be reviewed to determine a system’s return on investment (ROI). In some cases, high efficiency filtration systems can pay for themselves in less than two years.

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**Florida Fire Code: Existing Buildings Timetable**

**Florida Fire Prevention Code (NFPA 1) requires in-building coverage. Some building type have been granted an extension.**

**DISCUSSION:**

Florida Fire Prevention Code provides that AHJ (Authority Having Jurisdiction) can require maintaining adequate fire department radio signal strength inside any building (new or existing). Florida Statute § 633.202 provides for compliance extensions for certain building types.

**KEY DATES:**

- **Existing hi-rise buildings** are required to comply by the Florida Fire Prevention Code beginning **January 1, 2022**
  - By **December 31, 2019**, an existing building that is not in compliance with the requirements for minimum radio strength for fire department communications must apply for an appropriate permit and must demonstrate that the building will become compliant by **January 1, 2022**

- **Existing apartment buildings** are not required to comply until **January 1, 2025**. However, existing apartment buildings are required to apply for the appropriate permit for the required communications installation by **December 31, 2022**

**NEXT STEPS:**

1. Determine if sufficient fire department radio signal exists in your building. Qualified in-building wireless systems integrators (and others) can assist with this testing.
2. Contact your local Fire Code Official (AHJ, Authority Having Jurisdiction) to find out how this code is being enforced in your jurisdiction.
3. If coverage is insufficient and the AHJ is enforcing this requirement, prepare a plan (design, permits, etc.) by the deadline listed for your property type.
4. Visit Safer Buildings Coalition website [www.saferbuildings.org](http://www.saferbuildings.org) to locate professionals who can assist and to stay up to date on fire codes pertaining to in-building radio communication enhancement systems.

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**CODE EXCERPTS**

**Florida Fire Prevention Code (NFPA 1)**

11.10 **Two-Way Radio Communication Enhancement Systems.**

11.10.1 In all new and existing buildings, minimum radio signal strength for fire department communications shall be maintained at a level determined by the AHJ.

11.10.2 Where required by the AHJ, two-way radio communication enhancement systems shall comply with NFPA 72.

§ 633.202 Florida Statute

18. The authority having jurisdiction shall determine the minimum radio signal strength for fire department communications in all new high-rise and existing high-rise buildings. Existing buildings are not required to comply with minimum radio strength for fire department communications and two-way radio system enhancement communications as required by the Florida Fire Prevention Code until January 1, 2022. However, by December 31, 2019, an existing building that is not in compliance with the requirements for minimum radio strength for fire department communications must apply for an appropriate permit for the required installation with the local government agency having jurisdiction and must demonstrate that the building will become compliant by January 1, 2022. Existing apartment buildings are not required to comply until January 1, 2025. However, existing apartment buildings are required to apply for the appropriate permit for the required communications installation by December 31, 2022.

§ 718.1085 (EXCERPT)

...the term “high-rise building” means a building that is greater than 75 feet in height where the building height is measured from the lowest level of fire department access to the floor of the highest occupiable level.
WELCOME NEW SUPPORTING MEMBERS (as of March 11, 2019)

RAYME ACEVEDO
Technical Consultant
Belzona Florida LLC
Miami Lakes, FL  305/512-3212
florida@belzona.com

RUDY AMATO
Project Manager
Linbeck Group LLC
Houston, TX  713/489-1080
ramato@linbeck.com

KRISTIN APPLING
Business Development Director
Servpro of Winter Park
Winter Park, FL  407/678-5391
kstpray@servpro.com

SCOTT ARANT
Account Manager SSDM
Naico Water
Jacksonville, FL  904/679-9950
scott.arant@ecolab.com

CAROLYN AROTE
President
ADE Engineered Solutions of Florida
Longwood, FL  407/375-6997
carolyn@adehvac.com

ARSEN AVAKYAN
Workplace Solutions Executive
Suddath
Orlando, FL  904/807-9950
Arsen.Avakyan@Suddath.com

STEVE BALL
Service Manager
Ashberry Water Conditioning
Tampa, FL  813/299-6035
sbball@ashberrywater.com

JAVIER BALMA
Senior Associate
Walter P. Moore
Orlando, FL  407/776-0975
jbalma@walterpmoore.com

TINA BARROW
Marketing Manager
STRUCTURAL TECHNOLOGIES
Columbia, FL  410/859-6408
tbarrow@structuraltec.com

JODY BARRY
Vice President
Project Management Advisors
Orlando, FL  407/509-3805
jodyb@pmainc.com

KELLY BETTS
Healthcare Market Segment Manager, Southeast Region
Nora Systems Inc.
Tierra Verde, FL  850/933-4822
kelly.betts@nora.com

JAY BRADY
Agent
Water Conservation Technology International
Sarasota, FL  941/374-2849
jay@filtersplus.com

GUIDA BRANDON
Superintendent
Pennington & Associates, Inc.
Winter Park, FL  352/978-6452
Brandon@pennington-assoc.com

STEVE BRIGHT
Estimator
STRUCTURAL TECHNOLOGIES
Columbia, MD  954/410-9098
sbright@structural.net

JAMES CAMPANARO
Technical Consultant
Belzona Florida LLC
Miami Lakes, FL  305/512-3212
florida@belzona.com

SERGIO CHACON
Power Systems Sales Manager
Pantropic Power
Miami, FL  305/477-3329
melissa_kowal@pantropic.com

HOPE CHALMERS
Regional Sales Manager
STARC Systems, Inc.
Cumming, GA  847/420-7902
rchalmers@starcsystems.com

MARK CHRISMAN
Healthcare Practice Director/Associate
Vice President
Henderson Engineers
Kansas City KS  913/742-5460
mark.chrisman@hendersonengineers.com

JEREMY COLLINS
Director of Sales Florida Region
Northeast Firestopping Solutions
Saco, ME  407/893-1351
jcollins@nefirestop.com

ASHLEY CREECH
Sales Manager
Victaulic
St. Augustine, FL  904/349-2458
ashley.creech@victaulic.com

ISAAC CRIMM
Senior Mechanical Engineer
Stan Weaver & Company
Tampa, FL  813/879-0383
icrimm@stanweaver.com

JORGE DAVIDA
Project Engineer
Burns Engineering
Orlando, FL  407/463-7702
jdavila@burns-group.com

PERRY DAVIS
Business Development Specialist
Polycon US Group
Orlando, FL  407/625-9517
perry.davis@polycongrou.com

PAUL DEKANY
Service Sales Supervisor
Harper Limbach
Lake Mary, FL  407/212-8470
paul.dekany@harperlimbach.com

BONNIE DELEEUW
Marketing and Trade Show Coordinator
Shannon Specialty Floors/Teknolux
Milwaukee, WI  414/771-9166
tradeshows@shannonspecialtyfloors.com

ALEX DIAZ
Sr. Field Engineer
Hilti North America
West Palm Beach, FL  561/603-6651
Alexander.Diaz@hilti.com

KEVIN Dillard
Project Executive
Meisner Electric, Inc.
Delray Beach, FL  561/278-8362
kdliland@meisnerelectric.com

BILL DIVER
Account Executive
Bell Performance
Longwood, FL  407/831-5021
bdiver@bellperformance.net

ANTHONY DURAN
Sr. Key Account Executive
Orlando Utilities Commission
Orlando, FL  407/222-9903
aduran@ouc.com

TOM EDWARDS
Sales Engineer
Stan Weaver & Co.
Orlando, FL  407/581-6940
tedwards@stanweaver.com

JOHN EHRLUND
President
Premier Cabinets
Fort Lauderdale, FL  954/938-9200
jehrlund@premiercabs.net

CHRIS FARR
Sr. Plumbing/Fire Sprinkler Designer
RLF
Orlando, FL  407/730-3784
clfarr@rlf.com

ANTHONY FEBBRARO
President
Facility Environmental Partners, LLC
Clearwater, FL  727/421-9077
jefebiar@yahoo.com

PETER FEDOR
President
Farmer & Irwin Corporation
Riviera Beach, FL  561/842-5316
pfedor@fandicorp.com
THE WHISTLE

WELCOME NEW SUPPORTING MEMBERS

SPRING 2019

JERRY FERNANDEZ
President
Tropic Mechanical Contractors
Miami, FL  305/632-7785
jfernandez@tropicmechanical.com

WAYNE FOREMAN
President
CDF Distributors
Gallatin, TN  1-855-769-9895
wayne.foreman@cdfdoors.com

BRYAN FRANKER
Enterprise Sales Manager
Securadyne Systems
Jacksonville, FL  904/703-2698
bryan.franker@securadyne.com

ANDY FREEMAN
Outside Sales
Davis Water Service, Inc.
Randieman, NC  336/528-5623
andy@daviswaterinc.com

SCOTT GODHEIM
Senior Manager, Engineering
Con Edison Solutions
Tampa, FL  813/375-3370
godheims@conedeb.com

DON GOGGANS
Sales Director
Powerex Inc.
Columbia, TN  931/901-0679
dgoggans@powerexinc.com

MAXINE GOMEZ
Director
Forney FL Construction
Fort Lauderdale, FL  954/765-1286
maxine.gomez@forneyconstruction.com

NESTOR GONZALEZ
A/C Technician
Airmax Service Corporation
South Miami, FL  305/665-3238
Nestor@airmax.com

ALLISON GOULD
Marketing Coordinator
Modular Services Company
Oklahoma City, OK  405/521-9923
agould@modularservices.com

BILL GRAY
Vice President - Regional Sales
Global Plasma Solutions, Inc.
Alanson, MI  231/330-0033
bill@gphsvac.com

STEPHEN GRAY
President
Portpal USA, Inc.
Naples, FL  239/514-0001
s.gray@portpal.com

CHRISTINA GRUBBS
Director, Restoration & Inspections
TRC Worldwide Engineering
Sarasota, FL  941/952-1717
cgrubbs@trcnow.com

NATALY GUEVARA
Business Development Manager
Thornton Construction Co., Inc.
Miami, FL  305/649-1995
nguevara@thornton-inc.com

EDWARD GUIRLINGER
President
FlexCart
New Albany, OH  614/348-2517
eguirlinger@flexcartllc.com

SHERRI HEATH
Commercial Account Manager
BMS Cat
Pompano Beach, FL  954/242-0329
sheath@bmscat.com

KATHY HELTMAN
Events Manager
Florida Power & Light Company
Juno Beach, FL  561/492-2425
Kathy.Heltman@FLP.com

WILLIAM HENRY
Managing Member
RGA Design LLC
Tampa, FL  813/226-2220
rkrum@rgadesign.com

LORENZO HILLMAN
Fire & Egress Door Inspector
Door Solutions, Inc.
Tallahassee, FL  850/815-6223
hiilman@doorsntr.com

AMANDA HORAK
Surfacide
St. Petersburgh, FL  203/619-1061
amanda.horak@surfacide.com

DOUGLAS HUTCHISON
Chairman & CEO
Meisner Electric, Inc.
Delray Beach, FL  561/278-8362
hutch@MeisnerElectric.com

CHARLES IDE
Project Manager
Western Waterproofing of America dba Western
Specialty Contractors of America
Winter Park, FL  407/647-4175
Charles@westernspecialtycontractors.com

WHITNEY JACKSON
Marketing Director
Sutter Roofing
Sarasota, FL  941/377-1000
wjackson@sutterroofing.com

DAVID JOHN
Engineering Manager
Stan Weaver and Co.
Tampa, FL  727/666-0951
djohn@stanweaver.com

RANDAL KEEL
General Manager
Facility Consulting Group
Asheboro, NC  336/625-0901
rkeel@fgcusa.com

KRISTIN KENDRICK
Technical Consultant
Belzona Florida LLC
Miami Lakes, FL  305/512-3212
florida@belzona.com

JACK KLINE
Manager Engineered Solutions
Kohler
DeBary, FL  321/594-1142
Jack.Kline@Kohler.com

MATTHEW KUNATH
Associate, Healthcare Director
Jaycox Architects & Associates
Jacksonville, FL  904/396-4420
mikunath@jaycoxarchitects.com

SHANE LANTZ
VP of Service Sales
Comprehensive Energy Services
Longwood, FL  407/682-1313
shanel@cnesmechanical.com

RYAN LEE
Business Development Manager
H. Stephen Jones and Associates, Inc.
Jacksonville, FL  904/260-0024
ryan.lee@hsjtech.com

CARA LEVINE
Senior Account Manager
Aerobiology Laboratory Associates, Inc.
Sterling, VA  703/816-6243
cara.levine@aerobiology.net

VICKI LEWIS
Department Manager
Professional Service Industries, Inc. (PSI)
Orlando, FL  407/304-5560
vicki.lewis@intertek.com

PATRICK LILLEY
Project Manager
Linbeck Group LLC
Houston, TX  817/253-1416
plilley@linbeck.com

BRUCE LOEPPEKE
Director of Healthcare Client Relations
APG Engineering
Clearwater, FL  941/685-8104
bruce.loeppeke@apgcompany.com

PETER LOGSDON
Florida Technical Sales Director
CSW Industrials - Balco/Rectorseal/Greco
Atlantic Beach, FL  904/465-9932
peter.logsdon@balcousa.com

JIM LORING
Development
TLC Engineering Solutions
Sarasota, FL  941/665-7955
jim.loring@tlc-eng.com

RYAN LOWE
Sales Operations Manager
Krystal Companies LLC DBA "Krystal Klean"
Jacksonville, FL  904/309-3877
rlowe@kreystalklean.com

BONNIE MARSHALL
Regional Business Developer
The Davey Tree Expert Company
Kent, OH  330/312-0264
bonnie.marshall@davey.com

ERICK MARTE
Manager
American Portable Air
Pembroke Pines, FL  305/685-5292
mike@americanportableair.com

PAUL D. MARTIN
President
Martin Air Conditioning Inc.
Fort Myers Beach, FL  239/267-1520
pmart77eng@aol.com

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OWEN MCDONALD
General Superintendent
Evergreen CM
Mount Dora, FL  352/800-2391
omcdonald@evergreencm.net

MIKE MCGRAW
Sales Manager
Envirco
Sanford, NC  919/352-2496
mmcgraw@tritoniaq.com

JOHN MILLER
Construction Administration
SSR
Sarasota, FL  941/907-7750
jmiller@ssr-nc.com

RON MIMS
National Sales Manager
Whitehall / AcomVac, Inc.
Industry, CA  505/410-2565
rmims@acorneng.com

JACOB MOBERG
Applications Engineer
Stan Weaver and Company
Orlando, FL  407/581-6940
jmoberg@stanweaver.com

JAIME MONSERRAT
Vice President
Tropic Mechanical
Miami, FL  305/278-7171
jmmonserrat@tropicmechanical.com

ANTHONY MORGAN
Managing Member
Krystal Klean
Jacksonville Beach, FL  904/220-3337
tmorgan@krystalklean.com

TODD MORGAN
President
Comprehensive Energy Services, Inc.
Longwood, FL  407/682-1313
ToddM@cesmechanical.com

RANDY MOTE
General Manager
AXI Clean Fuel & Tank
Estero, FL  239/209-4869
rmote@axi-international.com

AMY NEUMANN
Architectural Sales Manager
Rockfon
Seffner, FL  813/334-2075
amy.neumann@rockfon.com

MICHAEL NEWSOME
Operations Manager
Door Control
Panama City Beach, FL  850/273-0587
mnewsom@doorcntrl.com

LEVY NGUYEN
Project Architect/ Manager
Caldwell Associates/ Architects
Tampa, FL  813/551-2565
levy@caldwell-assoc.com

GEOFF NICHOLS
Business Development
DS Contracting, LLC
Ocala, FL  352/304-5603
gnichols@dcontractingus.com

ROBBY OBERNEDER
Manufacturers Representative
Stan Weaver & Co.
Tampa, FL  813/879-0383
Robenreder@stanweaver.com

ROBERT O’BRIEN
Architect
Baker Barrios
Orlando, FL  407/926-3000
cobrien@bakerbarrios.com

RICHARD OGDEN
Application and Sales Associate
Protec Inc.
Miami, FL  305/987-8360
rogden@protecinc.com

LISA O’NEIL
President
O’Neil Brothers Flooring, Inc.
Royal Palm Beach, FL  561/795-8552
lisa@oneilbrothersflooring.com

IVAN ORDAZ
Vice President
Belzona Florida LLC
Miami Lakes, FL  305/512-3212
florida@belzona.com

JAVIER ORDIERES
Assistant Vice President Facility Engineering
Mount Sinai Medical Center
Miami, FL  305/495-2271
javier.ordieres@MSCM.com

MACKENZIE PARRISH
Sales Consultant
Andrews Filter and Supply Corp.
Orlando, FL  727/403-4309
mackenzie@andrewsfilter.com

MIKE PATRICK
Director of Operations
C.A.R.E., LLC
Apopka, FL  407/692-5460
mpatrick@theconwaygroup.com

BRIAN PATTENSON
Regional Manager- FL West Coast
Meisner Electric, Inc.
Delray Beach, FL  561/278-8362
bpatterson@meisnerlectric.com

NORMA PENDO KNOTT
Senior Project Manager
Suffolk
West Palm Beach, FL  786/566-7689
nknot@suffolk.com

DAVID PETERSON
Superintendent
RC Stevens Construction Company
Winter Garden, FL  407/299-3800
dpetersen@rcstevens.com

ERICK PHELPS
Mechanical Engineer
Smith Beckman Reid, Inc.
Sarasota, FL  941/907-7750
ephelps@ssr-inc.com

JODI PIERCE
Marketing Coordinator
P&A Roofing and Sheet Metal
Orlando, FL  407/487-6124
jpierce@pa-roofing.com

WILLIAM PIGOZZI
Project Manager
RC Stevens Construction Company
Winter Garden, FL  407/299-3800
wpigozzi@rcstevens.com

ROCKY PLOTTS
Director of Operations
Health Choice Enterprises, LLC
Louisville, KY  502/608-3784
rocky.pott@healthchoicenetworks.com

ROCKY PLOTTS
Director of Medical Gas
Florida Medical Gas
Louisville, KY  954/975-5583
info@floridamedicalgas.com

ADAM POGACHNIK
Project Manager
JW Building Construction
Jacksonville, FL  904/974-9441
apogachnik@wjbuildingconstruction.com

LUIS PRIETO
End User Consultant
Alllegion
Orlando, FL  786/779-1032
luis.prieto@alllegion.com

BILL RAUS
Industrial Account Manager
General Machinery Co., Inc.
Mobile, AL  251/473-1588
bill.raus@generalmachinery.com

JASON REMELE
Superintendent
R.C. Stevens Construction Company
Winter Garden, FL  407/299-3800
jremele@ncstevens.com

JAIME RESTREPO
Principal
Restekc Engineers
Miami, FL  786/302-7158
Jrestrepo@restekc.com

ROBERT RIESDORPH
C/I Sales Specialist
Leviton
Temple Terrace, FL  813/465-0420
riesdorph@leviton.com

JEFF RIGOT
Architectural Representative
Viraco
Owatonna, MN  239/872-2525
jrigoaviraco.com

JIM RILEY
Manager
Fluid Systems & Controls, Inc.
North Port, FL  941/426-9872
info@fscssl.com

DAVID RUDISILL
President
Pipe Restoration Solutions (PRS)
Bradenton, FL  941/705-2183
rudy@prodpipe.com

COURTNEY SALAMONE
Property Maintenance Sales Representative
Sherwin-Williams
Gainesville, FL  352/258-0489
Courtney.Salamone@Sherwin.com
THE WHISTLE

WELCOME NEW SUPPORTING MEMBERS

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DENNIS SANSCHAGRIN
Vice President
STRUCTURAL TECHNOLOGIES
Columbia, MD  443/306-0091
dsanschagrin@structuraltec.com

KAISA SCHMIDT
VP of Marketing & Public Relations
DeAngelis Diamond Construction
Naples, FL  239/504-1995
kaisa@deangelsdiamond.com

JOSEPH SERWINSKI
President
Facilities Survey, Inc.
Pittsburgh, PA  412/567-2070
jgoettman@fsiservices.com

MIKE SHARPE
WCCI
Maitland, FL  407/352-0107
msharpe@willisestimating.com

HENRY SHAWAH
Vice President
The Whiting-Turner Contracting Company
Fort Lauderdale, FL  954/776-0800
henry.shawah@whiting-turner.com

DAVID SIMMONS
Mechanical Engineer
SSR
Sarasota, FL  941/232-3414
dsimmn@ssr-inc.com

JOHN SLAVENS
Healthcare Principal
Baker Barrios Architects
Orlando, FL  407/926-3000
jslavens@bakerbarrios.com

ROBERT STICKELS
Field Evaluations Group Manager
TUV Rheinland North America
Littleton, MA  407/888-9998
rstickels@tuv.us.com

STAN TARQUINIO
HVAC Sales Engineer
Tom Barrow Company
Orlando, FL  407/291-0961
starquinio@tombarrow.com

SHAWN TEAGUE
Business Development Representative
Specialized Pipe Technologies
Sarasota, FL  941/379-5118
shawnt@sptpipe.com

PHILLIP THOMAS
Assistant Project Manager
Linbeck Group, LLC
Houston, TX  832/314-0927
pthomas@linbeck.com

BRANDON TOLER
President
B&B Utility Services
Apopka, FL  855/422-3473
brandont@bbandbutiltyservices.com

VINCE VILARCHAO
Vice President of Construction Management
Tropic Mechanical Contractors
Miami, FL  305/801-4071
vvilarchao@tropicmechanical.com

MICHAEL VIOLA
VP
Sodexo
Pensacola, FL  850/529-8398
michael.viola@sodexo.com

JEFF WALSH
Operations Manager
Sanders Laboratories, Inc.
Nokomis, FL  941/628-0092
jeff@sanderslabs.net

BRAD WILLIAMS
VP of Waterproofing
Merit Professional Coatings, Inc.
Tampa, FL  813/979-6146
bradw@meritnow.com

EDDIE WILLIAMS
Area Executive
WittRockHC123*
Greensburg, IN  214/263-3433
ewilliams@wittrockinc.com

ERIC WILLIAMS
Sales Account Manager
AWNCLEAN USA, Inc.
Tampa, FL  813/258-9344
eric@awnclean.com

SUSAN WILLIAMS
Sr. Project Manager
Barton Malow
Oviedo, FL  407/719-0573
tenfl01@icloud.com

BRUCE WINGFIELD
Business Development Manager
Moisture Intrusion Solutions
Daytona Beach, FL  386/631-3631
bwingfield@moisturesolutions.net

GEORGE WININGER
Project Manager
Harper Limbach
Boynton Beach, FL  407/793-3127
george.wininger@harperlimbach.com

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FLORIDA HEALTHCARE ENGINEERING ASSOCIATION
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