Message from the Chapter President

By John Constantinide, C.E.M., M.S.
Chapter President, Programs, & Electronic Communications Chair

Spring is slowly coming, but our golf tournament is right around the corner. I know that thinking about playing golf in the cold rain and wind does not sound enticing, but imagine playing golf in the far better weather on Friday, March 27. The ocean breeze blowing by you, with pristine greens and soft touches of sunlight warming you all over the course, the deep blue skies with a cloudless horizon perfecting that view as you step up to drive. Yes, the experience of a Spacecoast Chapter golf tournament is one like no other, and you can be a part of it.

Be a part of this great tournament for a great cause: HVAC/R research. Register online at our website, www.SpacecoastASHRAE.org, or fill out and mail the forms included in this newsletter issue. Sponsorships are selling out, and we hope to have a great golf tournament this year. But that can only happen with your advanced registration.

Because of new restrictions this year, the Chapter will need a minimum number of players registered in advance and participate to continue having the tournament. So, why wait until the day of the tournament to register? Save the hassle and register online, assuring your day of golfing in blue skies, ocean breezes, and another work week behind you.

If you have questions about sponsorships or registration, e-mail Dave Kirshner, our Chapter Research Promotion Chair, at RP@SpacecoastASHRAE.org. The Spacecoast Chapter appreciates Dave’s selfless volunteerism for organizing this great event for ASHRAE Research.
The February Joint Seminar was a hit with the Society of American Military Engineers. Many thanks to Kevin Messer of Mitsubishi, pictured below, for presenting.

Join us at the March Joint Technical Seminar with the ASHRAE Central Florida Chapter on Tuesday, March 10, at Lone Cabbage (Click here for map). Networking starts at 6:00 pm, with the dinner with presentation at 6:30 pm. Admission is free. Click here to view the menu.

Anik Patel, P.E. and Krista Mangan of Randall Mechanic will present the HVAC system of the newly constructed Dr. Phillips Performing Arts Center in Orlando, with a photo tour of the facility included.

50/50 drawing tickets will be on sale: $5 for 1 ticket and $10 for 3 tickets. Drawing proceeds will benefit the Women’s Resource Community Center through ASHRAE Research Promotion.

Our remaining seminars are as follows.

April Technical Seminar
Sponsored by TLC

Worth 1 PDH (FBPE)
Presenter: Michael West, Ph.D., P.E., AdvanTek
Tuesday, April 14, 2015
TLC Engineering for Architecture, Cocoa Office (Click here for map.)
Networking: 11:30 am; Lunch/Presentation: 12:00 pm 50/50 Drawing: 1 ticket for $5, 3 tickets for $10

Interested in being a Technical Seminar speaker? Opportunities are available to present your topic in front of a captive and interested audience. If you would like to present, e-mail me at Programs@SpacecoastASHRAE.org.

Spacecoast Chapter Golf Tournament
Friday, March 27, 2015
Duran Golf Club, Viera, FL (Click here for a map of the location.)

Save your spot for great food, golf, and networking by purchasing a tournament package online or using the flyer on the next page. For more information, e-mail me at RP@SpacecoastASHRAE.org.

Nominations

Nominations are being accepted for the 2015-16 term for Chapter officer, governor, and committee chair positions. Nominate yourself or another person by e-mailing President@SpacecoastASHRAE.org. A listing of positions are on the last page of this issue of The Capsule and the Chapter website, www.SpacecoastASHRAE.org.
Annual Golf Tournament
Friday, March 27, 2015
Duran Golf Club

الفئة: Duran Golf Club
7032 Stadium Parkway
Melbourne, FL 32940

الفئة: Tournament Sponsorship Levels:

$750.00 ………. Tournament Sponsor
- Company's name/logo recognition in the hospitality and lunch suite
- Product display (sponsor provided)
- Opportunity to include items with company logo in tote gift bag

$400.00 ………. Tote Gift Bag Sponsor
- Company's name/logo recognition on tote gift bag given to all golfers
- Opportunity to include items with company logo in tote gift bag

$600.00 ………. Foursome and Hole Sponsor Deal
- Company's name/logo Recognition on one of the eighteen hole course
- Opportunity to include items with company logo in tote gift bag
- Lunch for four golfers
- Tote Gift Bags for four golfers
- Golf & Cart fees for four golfers

$500.00 ………. Foursome
- Lunch for four golfers
- Tote Gift Bags for four golfers
- Golf & Cart fees for four golfers

$250.00 ………. Golf Cart Sponsor
- Company's name/logo recognition on each golf cart
- Opportunity to include items with company logo in tote gift bag

$200.00 ………. Hole Sponsor
- Company's name/logo Recognition on one of the eighteen hole course
- Opportunity to include items with company logo in tote gift bag

$125.00 ………. Individual Golfer
- Lunch
- Tote Gift Bag
- Golf & Cart fees

Donations of your company’s logo items are also welcome for inclusion in the participant tote gift bag.

الفئة: Schedule:

- 11:00 am.............. Registration begins, lunch, receive tote gift bag
- 12:30 pm............. Shotgun start of golf tournament (4-person scramble format)

Proceeds from the ASHRAE-Spacecoast Golf Tournament benefit ASHRAE Research and Local Chapter.
Annual Golf Tournament
Friday, March 27, 2015
Duran Golf Club

Registration Information / Online @ www. http://www.spacecoastashrae.org/

*All Payments Required Prior to Day of Event*

Corporation/Name: ____________________________________________________________

Contact Name: ______________________________________________________________

Mailing Address: _____________________________________________________________

City/State/Zip: _________________________________________________________________

Phone: _____________________________________________________________________

Email Address: ______________________________________________________________

Golfer #1 Name: _____________________________________________________________

Golfer #2 Name: _____________________________________________________________

Golfer #3 Name: _____________________________________________________________

Golfer #4 Name: _____________________________________________________________

Sponsorship

Type/level: ___________________________ Qty: ____ Fee: $________

Type/level: ___________________________ Qty: ____ Fee: $________

Type/level: ___________________________ Qty: ____ Fee: $________

Type/level: ___________________________ Qty: ____ Fee: $________

Total Sponsorship Fees: $________

Submit JPEG File by February 6, 2015 to RP@SpaceCoastASHRAE.org

Payment Information: Use PayPal link on http://www.spacecoastashrae.org/ or checks made out to "ASHRAE Spacecoast Chapter" are accepted.

Proceeds from the ASHRAE-Spacecoast Golf Tournament benefit ASHRAE Research and Local Chapter.
Grassroots Government Activities
By Scott Seigel, P.E., LEED AP, C.E.M., CxA, O.P.M.P.
Regional Vice Chair & Chapter Chair for Grassroots Government Activities

Here are some recent headlines and articles from ASME about energy policy in the United States.

CBO Releases Analysis of H.R. 880, American Research and Competitiveness Act Of 2015

The Congressional Budget Office (CBO), at the request of the House Committee on Ways and Means, has released its analysis of H.R. 880, the American Research and Competitiveness Act of 2015.

H.R. 880 would amend the Internal Revenue Code to make permanent a modified version of the tax credit for qualified research expenses that expired at the end of 2014. The bill would not extend the traditional calculation method and its associated 20 percent credit. It would, however, make permanent the "alternative simplified method" for calculating the tax credit for qualified research expenses and generally increase the associated credit to 20 percent of those expenses that exceed 50 percent of the average qualified research expenses for the three preceding taxable years. Among other changes, the bill also would make permanent a tax credit for basic research and energy research and would change the base period for the basic research credit from a fixed period to a three-year rolling average.

The staff of the Joint Committee on Taxation (JCT) estimates that enacting H.R. 880 would reduce revenues, thus increasing federal deficits, by about $182 billion over the 2015-2025 period.


AEIC Releases Recommendations for Restoring American Energy Innovation Leadership

Energy technology innovation is critical for expanding U.S. economic growth, enhancing energy security, and protecting our environment. However, critical federal investments in energy innovation have remained unchanged since 2010, as detailed by the American Energy Innovation Council (AEIC) in its third report, "Restoring American Energy Innovation Leadership: Report Card, Challenges, and Opportunities," released earlier this week. The report finds that Congress and the Administration have a mixed record on implementing AEIC recommendations to promote energy innovation and urges greater federal investments critical to achieving the country’s economic, security, and environmental goals.

The report states stagnant government funding for energy RD&D over the last five years represents a major failure in U.S. energy policy. Public investment in energy RD&D remains less than one-half of one percent of the annual nationwide energy bill. The scale of energy RD&D is still just one third of what AEIC recommends for the United States to compete effectively in global markets, diversify away from foreign oil, and mitigate environmental harms from energy production. Private energy innovation investments, which often build on federally-funded science and RD&D, are flat or declining as well.

U.S. Department of State and U.S. Environmental Protection Agency Launch Innovative International Air Quality Program

Earlier this month, Secretary of State John Kerry and EPA Administrator Gina McCarthy signed a statement of intent to launch a new air quality partnership between the U.S. Department of State and the U.S. Environmental Protection Agency (EPA). The effort will provide U.S. citizens and government personnel with better information on air quality at select embassies and consulates around the world to reduce health risks from outdoor air pollution, and will offer greater opportunities for the United States to create partnerships on air quality with other nations.

Air pollution is a serious and growing health threat worldwide, yet in many areas, real-time air quality data is not available. The Department of State has a keen interest in providing sufficient air quality information to U.S. citizens and government personnel overseas to enable informed health decisions.

The partnership will use EPA’s existing domestic AirNow system, which is an online platform that helps Americans understand how clean or polluted their outdoor air is. To build on this successful network, the Department of State plans to place air quality monitors at select American diplomatic posts where continuous fine particle pollution (PM 2.5) data is currently of limited availability, and to publicly share this data through EPA’s AirNow website.
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For just $75, have your company advertise for one year in The Capsule and on the Chapter website.
Plus, your company will get a certificate and recognition at a Chapter seminar.

Purchase your Chapter sponsorship online at www.SpacecoastASHRAE.org.
ASHRAE PRESENTS THE 2015
ANNUAL WEBCAST

New Tomorrows for Today’s Buildings:
EXISTING BUILDING COMMISSIONING

Register
March 23

View Live
April 23

Available Online
April 24 - May 7

PERKS

ASHRAE’s annual webcast is completely FREE, and viewers have the opportunity to earn up to 3 PDHs.

While learning about existing building commissioning, efficiency, and ROI, viewers can ask the presenters questions during the live broadcast.

ASHRAE’s annual webcast remains available online for two weeks after the live event.

PRESENTERS

Robert G. Baker, OPMP, FASHRAE
Managing Director
BBJ Consulting Services

James K. Vallort, FASHRAE
Practice Leader, Energy + ECO, Controls and Commissioning
Environmental Systems Design Inc.

Ronald J. Wilkinson, P.E., CPMP
Commissioning Authority
Glumac

ASHRAE.ORG/WEBCAST
BUILDING CONTROLS STRATEGY CONFERENCE

APRIL 2ND, 2015

HARRY P LEU GARDENS, 1920 N FOREST AVE, ORLANDO, FL

Registration and trade show opens: 7a
Programs: 8a – 4p
Trade show and cocktails: 4-5p

The Building Controls Strategy Conference is a comprehensive series of programs on the state of the art of building automation and controls, brought to you by the Young Engineers in ASHRAE (YEA) Committee

Cost:
ASHRAE Members: $50
After 3/28, $75

Non-ASHRAE Members: $75
After 3/28. $100

Registration is limited to the first 110 RSVP’s and will sell out quickly!

Registration includes a morning coffee bar, chicken over mixed greens with a citrus vinaigrette for lunch*, and (2) tickets for afternoon cocktails during the trade show, all catered by Dubsdread

*vegetarian options available upon request

PDH’s available, see program itinerary on page 2

The ASHRAE Central Florida Chapter thanks the following for their generous contributions:

Platinum Sponsors

Gold Sponsors

Silver Sponsors
Building Controls Strategy Conference Itinerary

7 – 8a
Registration and trade show floor opens
*Lantern & Camellia rooms*

8 – 830a
Welcome Message
Nate Boyd, ASHRAE Central Florida Chapter President
*Camellia room*

830 – 945a
Session 1: “DDC Fundamentals” (1) PDH
Josh Felperin, Siemens
*Camellia room*

1000 – 1115a
Break out sessions begin – choice of 3 topics:
Session 2: “Specifications, Sequence of Operation writing”
John Davant, MC2, Inc.
*Palm room*

Session 3: “Wireless DDC”
Ryan Strandquest, Matern Professional Engineering, Inc. and Rodney Armstead, Trane
*Orchid room*

Session 4: “Integration with Enterprise-level Platforms and Dashboards”
Mark Zeitler, Automated Buildings, Inc.
*Rose room*

1130a – 1245p
Lunch and Keynote Presentation – Session 5: “The Brains of the Operation”
Steve Tom, PhD, PE, Automated Logic Corporation
*Camellia room*

1-215p
Break out sessions resume:
Session 6: “Controls impact the whole team”
Brent Waluzak, PE, Pelorus Engineering, PLLC
*Palm room*

Session 7: “Integrating Controls in Large Operations” (1) PDH
Tony Shahnami, PE, SGM Engineering, Inc.
*Orchid room*

Session 8: “Analytics, Fault Detection, and Diagnostics”
Dave Norvell, PE, University of Central Florida
*Rose room*

230 – 345p
Break out sessions conclude:
Session 9: “Controls Cx and Maintenance Best Practices”
Dave Miller, PE, TLC Engineering for Architecture, Inc.
*Palm room*

Session 10: “Critical Environments and Special Applications”
Dan Rogers, PE, Flow Control Technologies, Inc.
*Orchid room*

Session 11: “Chiller Plant and Airside Chilled Water Optimization”
Rodney Armstead, Trane and Stephen Rybka, Belimo
*Rose room*

345-5p
Trade show and cocktail hour
About the presenters…

**Keynote speaker:**
Steve Tom, PE, PhD, is the Director of Technical Information and the Systems Engineering Team Leader at Automated Logic Corporation. He has more than 40 years’ experience working with HVAC systems. At ALC Steve has coordinated the training, documentation, and technical support programs, and frequently works with the R&D engineers on product requirements and usability. He holds several patents on VAV flow control algorithms.

**Keynote address: The Brains of the Operation**
Control systems are the “brains” of any operating building system. The finest equipment in the world will not give satisfactory performance if it is not controlled correctly. Mr. Tom has been involved in various aspects of the controls industry for over 40 years, including his current position in the Research and Development department of Automated Logic. He will share his thoughts on current trends in the industry and provide some “lessons learned” on control system design.

**David Norvell, PE, LEED AP, C.E.M.,** is the Assistant VP for Sustainability at the University of Central Florida. His energy services team includes professionals in engineering, project management, building commissioning, marketing, building automation and utility production. The team manages more than 10 million square feet of building space at the second-largest university in the nation. Under Norvell’s leadership, UCF has seen substantial gains in energy efficiency and reductions in costs across campus, making the university one of the green leaders in Florida.

**Analytics, Fault Detection, and Diagnostics**
How do you get the most out of your BAS throughout the life of the building? Organizations are collecting huge volumes of data, including trending from BAS energy data from Energy Management Systems (EMS). The cost of storage has decreased to the point that many are storing this data for long periods of time. Is this a value added exercise? David will show how this foundation of knowledge can produce value to the operations staff when combined with analytics. The outcome can be much happier occupants as well as operations staff. Techniques will be revealed using both passive and active means to perform fault detection and diagnostics utilizing this data and connectivity.

**David V. Miller, PE, LEED AP BD+C, CxA, EMP** is an expert in energy assessments, facility evaluations, and commissioning. David joined TLC Engineering for Architecture as an energy expert and has since become TLC’s Commissioning Manager. David's focus is on helping Owners save energy and money by making sure their buildings are operating as efficiently as possible. David leads commissioning teams in a hands-on approach, using his extensive building performance experience to benefit the entire O/A/E/C Commissioning Team. David has more than 26 years experience in building controls, system analysis, commissioning, and HVAC design.

**Controls Cx and Maintenance Best Practices**
A practical discussion of controls, commissioning, and the unexpected consequences of relatively minor problems. This session will consist of real problems identified during the commissioning process. Obviously it is important that the large pieces of HVAC equipment are installed correctly and work as designed. We will discuss some of the surprising consequences of seemingly small items that were neglected and became potentially big problems for the owner at a later date.

**Daniel Rogers, PE, MBA** is president of Flow Control Technology Company LLC which specializes in Critical Pressurization applications from Laboratories, Clean Rooms, Pharmacies, Data Centers, Healthcare and many other specialty markets/applications from Citrus, Sumter, Lake & Volusia counties down south to Key West. He has over 27 years of experience in the HVAC market on projects in the Commercial, Industrial & Government sectors, including new construction, retrofit and energy based solutions.

**Critical Environments and Special Applications**
Critical Environments and special applies practices to enhance energy savings. Laboratories, Clean Rooms, Pharmacies, Data Centers, Healthcare & other Critical Pressurization controls …from code to typical applications. Standard DCV and MpDCV for enhanced Air Side Savings with system diagnostic dashboards to truly yield an optimized system.
About the presenters…

Ryan Strandquest, LEED AP, is Senior Vice President of Matern Professional Engineering, Inc., with over 18 years experience in mechanical engineering. He has been with Matern for over 16 years and leading the company in innovative designs utilizing Energy Conservation Measures. He has a Bachelor of Science degree and Master of Science degree in Engineering from the University of Central Florida with a focus on energy/sustainability and engineering management. He was the 2003 recipient of the ASHRAE Central Florida Chapter’s Young Engineer of the Year Award and in 2012 received the Consulting Specifying Engineer Magazine National 40 under 40 engineering award in Chicago.

Wireless DDC

The session provides an overview on the design and implementation of wireless DDC controls. Topics will include cost considerations, application benefits and pitfalls, and recent project experiences.

Rodney Armstead, C.E.M., is a controls account manager for Trane Commercial Systems in Orlando FL. He has 25 years of experience in the building automation industry on projects including new construction, building retrofits, and energy projects for commercial office buildings, hospitals, research facilities, laboratories, schools, and central energy plants.

Wireless DDC

The session provides an overview on the design and implementation of wireless DDC controls. Topics will include cost considerations, application benefits and pitfalls, and recent project experiences.

Chiller Plant Optimization and Airside Chilled Water Savings

Session provides a discussion of chilled water plant optimization strategies and design considerations for a variety of system configurations in both new and existing buildings. The presentation will include the control and optimization of airside chilled water flow and its impact on system performance.

Stephen R. Rybka is a Regional Application Consultant, South U.S., for Belimo Americas. With over 15 years’ experience in installation, service, development, sales and technical training for process HVAC, hydronic systems and controls, Stephen’s work experience covers development of training programs for control engineers throughout the Southern United States, developing and expanding market share of Belimo products and technology, providing technical training and assistance in the sizing and selection of control end devices installed in commercial facilities and controlled through direct digital controllers.

Chiller Plant Optimization and Airside Chilled Water Savings

Low Delta T causes chiller plant inefficiency and a dramatic increase in pumping cost. This presentation will analyze how correcting low Delta T will eliminate over pumping and costly chiller plant inefficiency. By replacing manual balancing with dynamic pressure independent balancing, low delta T can be dramatically improved.

Brent Waluzak, P.E., CEM, BESA, has over 9 years of experience in various controls related roles from owner's representative, specifying engineer, performance contractor, vendor project engineer, and efficiency engineer viewpoints. He is local to Florida and his passion lies in preserving our great outdoors by optimizing energy, water, and waste in the built environment.

Controls Impact the Whole Team

This presentation serves to provide a review of the impacts/concerns of a controls project from the individual viewpoints of the building owner, the specifying engineer, the sustainability manager, the energy modeler, the vendor's viewpoint (equipment and controls), the contractor, the commissioning agent, and the building operator. Learn where the overlap occurs, how conflicts arise, and just how many people interact with the controls on any given project. The key is collaboration and communication!
About the presenters…

Tony Shahnami, P.E., SGM Engineering, Inc. is a registered professional engineer with a vast number of years of experience in the forensic, life safety, building permits, codes, fire protection safety, mechanical, electrical, IAQ and plumbing fields. His registration in the majority of states across the nation makes him particularly well qualified to perform forensic and design engineering tasks to a wide range of clients. His background includes forensic investigations, permit and code applications, safety regulations, developing, designing and managing MEP plans for government, public education facilities, national restaurants, and office buildings.

Integrating Controls in Large Operations (1) PDH
Tony will present on the benefits of BAS for large operations, including BAS monitor and control of HVAC, lighting and complying with Florida building code. He will also address using a BAS to monitor and control multiple chiller plants and sequence of operation, Integrating building BAS into chiller plant’s BAS, and how REVIT lod450 can integrate with BAS. Each attendee will receive 1 PDH for attending.

Josh Felperin is the Territory Manager for Siemens Controls, Products, and Systems Division. Josh has over 7 years of experience with Siemens working with controls contractors, specifying engineers, end users and wholesalers throughout the Southeast United States and Puerto Rico. He provides AIA accredited training on Building Automation Systems Basics, Sizing and Selection of Control Valves, and Open Protocols for BAS Controls.

DDC Fundamentals (1) PDH
This purpose of this AIA accredited presentation is to educate the market on the parts of a BAS system and how they fit together. The attendee will learn the concept of a BAS point, identify various BAS points, understand how the components and controllers form a BAS control system. Each attendee will receive 1 PDH for attending.

John Davant is the Director of Business Development for MC2 Inc. located in Central Florida and has over 30 years of experience in the automation industry. His current role allows him to call on consultants discussing proper specifications and sequences while developing and managing key accounts. John began his career as an HVAC service technician where he developed an understanding of the operation and diagnostics of HVAC systems. John continued his education at GAT in Georgia and earned a degree in electronics engineering. Combined with his extensive HVAC experience and electronics engineering background, John developed an aptitude for building automation systems, systems integration, energy management, fire alarm systems and security systems.

Specifications, Sequence of Operation writing
In this session John will review CSI Division Specifications in general including pitfalls into proprietary specifications and performance based specifications that conflict with open systems. We will discuss the integration of the Division 27 specification and how it relates to mechanical and electrical specifications and proper sequence of operations of mechanical systems.

Mark T. Zeitler is the President of Automated Buildings, Inc. located in Central Florida. In 1980 Mark started his career in the air conditioning industry and his entire career has been serving the air conditioning industry in Central Florida. In 1998 he Founded Automated Buildings, Inc. Automated Buildings, Inc. is a State Certified Air Conditioning and Licensed Electrical Contractor that specializes in Building Automation and System Integration.

Integration with Enterprise-level Platforms and Dashboards
Developments in building automation technology are changing. In a growing number of organizations, enterprise systems are harvesting data from building automation systems. Most of the applications are in companies with large campuses and governmental bodies, but the future could well see the same development spread to other types of organizations.
2014-2015 Spacecoast Chapter Leadership

Chapter Officers & Board of Governors

President
John Constantinide, C.E.M., M.S.
President@SpacecoastASHRAE.org

President-Elect
Opportunity available. E-mail John Constantinide to apply.

Vice President
Opportunity available. E-mail John Constantinide to apply.

Secretary
Jim Van Etten
Secretary@SpacecoastASHRAE.org

Treasurer
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Treasurer@SpacecoastASHRAE.org

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PastPresident@SpacecoastASHRAE.org

Governor
Brian Blenis, P.E., C.E.M., CBCP, LEED AP
Governor1@SpacecoastASHRAE.org

Governor
Kevin Riley, P.E., C.E.M.
Governor2@SpacecoastASHRAE.org

Governor
Jeanne Duce, P.E.
Governor3@SpacecoastASHRAE.org

Chapter Committee Chairs

Programs (Technology Transfer), Electronic Communications, Newsletter, & Website
John Constantinide, C.E.M., M.S.
Programs@SpacecoastASHRAE.org

Membership Promotion
Dan Evans
MP@SpacecoastASHRAE.org

Research Promotion
Dave Kirshner
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Young Engineers in ASHRAE (YEA)
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YEA@SpacecoastASHRAE.org

Student Activities
Opportunity available. E-mail John Constantinide to apply.

Grassroots Government Activities
Scott Seigel, P.E., LEED AP, C.E.M., CxA, O.P.M.P.
GGAC@SpacecoastASHRAE.org

Historian
Opportunity available. E-mail John Constantinide to apply.

Refrigeration & Auditing
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Refrigeration@SpacecoastASHRAE.org

F1T Endowment
JD Van Gilder
Endowment@SpacecoastASHRAE.org

Honors & Awards
Chris Cook, C.E.M.
HA@SpacecoastASHRAE.org

Badge Dude (Reception)
Kevin Riley, P.E., C.E.M.
BadgeDude@SpacecoastASHRAE.org

Sustainability
Opportunity available. E-mail John Constantinide to apply.

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is on the web!

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