



Spacecoast
Chapter



SETTING THE STANDARD

Canaveral Section

The Capsule

Newsletter for the ASHRAE Spacecoast Chapter and ASME Canaveral Section

May 2016 Issue

Message from the ASHRAE Chapter President

By John Constantinide, E.I., C.E.M., M.S.
ASHRAE Spacecoast Chapter President

April was a great month for the ASHRAE Chapter, as we hosted our monthly Joint ASME-ASHRAE Chapter Technical Seminar at Tuscanry Grill and the ASHRAE Webcast. The in-person Webcast Chapter event was co-hosted with the Society of American Military Engineers Space Coast Post, providing a greater networking opportunity for our members. We appreciate everyone for coming and participating.

Our May Technical Seminar will be the last seminar for the term before we break for the summer. Rescheduled from January, the speaker has a wealth of knowledge about lighting and illumination methods. Because lighting has an impact on how we design our HVAC systems, I encourage you to come, listen, and ask questions.

At the May seminar, I will be passing the gavel to our 2016-2017 Chapter President, Denny Bowers. He is excited to be serving on a Board with new and experienced volunteers, alike, and I look forward to seeing him continue leading the Chapter on its upward trend.

Our upcoming Space Congress® Golf Tournament is also on Friday, May 27, and our Resource Promotion Chair, Scott Seigel, is looking for sponsors. If you would like to sign up to golf and sponsor, please e-mail him at RP@SpacecoastASHRAE.org. Thank you to those who signed up already. Your support is invaluable, and your golfing experience will be great, as with every Chapter-hosted tournament.

I want to close off by thanking the Chapter for the opportunity to serve as President for two terms. Your support for ASHRAE and this Chapter is evident by increased seminar and event attendance, renewing memberships, increased volunteerism, and sponsorships for our events. Keep that up and contribute however much you can to the Chapter. Each member contributing something keeps our ASHRAE Spacecoast Chapter alive. If you want to start contributing or want to offer more for the Chapter, e-mail me at President@SpacecoastASHRAE.org.

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Coming up

May Technical Seminar
Tuesday, May 10, Tuscanry Grill
Networking: 11:30 am
Lunch & Presentation: 12:00 pm

Space Congress® Golf Tournament
Friday, May 27, Cocoa Beach
Country Club
Registration: 7:00 am
Shotgun Start: 8:00 am

Programs



**By Akshay Bhargava, M.S.
ASHRAE Spacecoast Chapter
Newsletter Editor**

Last month's technical seminar, about Mechanical Ventilation Costs and Failure Rates in Florida Homes, was both informative and insightful for all who attended.

We appreciate Rob Vieira, Director, Buildings Research Florida Solar Energy Center, for traveling to the Space Coast and speaking to us. Our speaker for next seminar will be Allen M. Weiss PE, LC, Member Emeritus IESNA, who will be presenting on the topic, "The Florida Energy Code," which is worth **1 FBPE PDH**.



Mr. Weiss is a lighting design professional presently working as a certified continuing education provider for the SESCO lighting Company in Winter Park Florida. He is a graduate of Drexel University (1989 alumni award in electrical engineering) with a BS in Electrical engineering. He is a

P.E by examination and is presently registered in seven states (Florida, Pennsylvania., Maryland, Delaware, New Jersey, North Carolina and Texas retired) and also a nationally certified LC by examination.

Mr. Weiss has personally designed or supervised the design of over 30 million square ft. of facility lighting designs, many for fortune 100 and fortune 500 clients. Additionally, he has worked on the lighting design of several major roadway, tunnel and bridge projects including Orlando Florida's East West Expressway and major portions of Charleston West Virginia's interstate highway system. Several of his lighting designs merited design awards through the Illuminating Engineering Society of North America (IESNA) and the magazine "Architectural Record". A list of his lighting design projects is available upon request. He has taught lighting design as an adjunct professor at Pittsburgh's La Roche College as well as lectured on lighting design topics at Seminole State College, Brevard Community College, Indian River State College and through his affiliation with the Illuminating Engineering Society of North America (IESNA). He also served as section chairman of the IESNA in Philadelphia.

Networking starts at 11:30 am, with the seminar with lunch at 12:00 pm. **Be sure to RSVP by sending an e-mail to Chapter@SpacecoastASHRAE.org. The Chapter needs a head count to reserve the proper room and spacing for the event.**

Would you be interested in presenting a cutting-edge technology or discussing technical methods to an avid audience of engineers? Topics are encouraged to be of a technical nature, since the Technical Seminars will be worth 1 FBPE PDH.

To schedule your speaking engagement at an upcoming ASHRAE-ASME Technical Seminar, please e-mail Programs@SpacecoastASHRAE.org.

Resource Promotion

**By Scott Seigel, P.E., LEED AP, C.E.M., CxA, O.P.M.P.
ASHRAE Spacecoast Chapter Resource Promotion
Chair**

Register for the Space Congress® Golf Tournament on Friday, May 27 at Cocoa Beach Country Club (5000 Tom Warriner Blvd., Cocoa Beach, FL 32931). [Click here for more information and to register for the tournament.](#) Proceeds will benefit the Space Congress® Scholarship Endowment Fund through the ASHRAE Foundation.

Registration can be done using the form at the end of this newsletter.

Space Congress® is a registered trademark of the CCTS.

ASHRAE Webcast

The ASHRAE Webcast event on “Making Net Zero Net Positive: Solving the Efficiency & Cost Paradox”, presented by David Underwood, P.Eng., F.ASHRAE, CPMP; Marc Brune, P.E.; Philip Macey, AIA; and Dr. Paul Torcellini, Ph.D., P.E., and hosted by the ASHRAE Spacecoast Chapter with the Society of American Military Engineers (SAME) Space Coast Post, was a fruitful event following a SAME meeting full of networking and a presentation by Jenna Beckwith, our Embry-Riddle Aeronautical University Student Branch President.



The webcast focused on realistic solutions and methods of energy conversion and discussed the primary technical and financial challenges in achieving net zero buildings. Viewers got to learn the importance of, and why we should strive for, net zero in the built environment.

ASHRAE Certifications

Here is one way you can make the most of your ASHRAE membership: **Sign up to become certified by ASHRAE!**

Demonstrate competency in critical building commissioning knowledge, skills and abilities, elevate your reputation among peers, in the workplace and among clients, and [comply with local, state and federal requirements.](#)

ASHRAE certification programs:

- Are developed by industry practitioners who understand the knowledge and experience that are expected for superior building design and system operation;
- Assure employers and clients of subject mastery;
- Serve as a springboard for continued professional development; and
- Offer an easy-to-apply process.

For more information, [click here.](#)

Value of Certification

ASHRAE certification programs were founded to meet industry need as identified through market research and today provide value to many important stakeholders. Developed by subject matter experts, including those recruited from allied professional organizations, ASHRAE certification programs benchmark with the ANSI/ISO accreditation standards for personnel certification programs to help ensure quality. For the past 100+ years ASHRAE has worked hard to earn and maintain a worldwide reputation for being the leader in HVAC&R design. ASHRAE certification programs serve to reinforce that reputation.

44th Annual Space Congress® Scholarship Golf Tournament

Benefiting the Space Congress® Scholarship Endowment Fund



WHEN: Friday, May 27, 2016
WHERE: Cocoa Beach Country Club
5000 Tom Warriner Blvd.
Cocoa Beach, FL 32931

ENTRY FEE: \$125.00 per Golfer

INCLUDES: Green Fees with Cart, Lunch, and Open Driving Range, Three (3) Drink Tickets, Awards & Prizes, Longest Drive and Closet to the Pin Holes

SPONSOR PACKAGES:

- "Space Station" Tournament Level Sponsor: \$3,500
Includes Logo and name of Display, tournament flyers, course signage, (2) Golf Cart Sponsorships and two (2) foursomes
- "Launch Pad" Tournament Level Sponsor: \$2,500
Includes Logo and name of Display, tournament flyers, course signage, one (1) golf cart sponsorship and one (1) foursome
- "Spaceport" (1) Lunch Sponsor: \$2,000 Includes Display, Acknowledgement at Lunch, and One Foursome
- "Mars Rover" Drink Cart Sponsors: \$750 Includes Display on Drink Cart
- "Moon Rover" Golf Cart Sponsor: \$250 Includes Display on Select Golf Cart
- "Astronaut" Hole Sponsor: \$150 Includes Sign at Hole

Time: 7:00AM Registration with free driving range use
8:00 AM Shotgun Start

Dress Code: Shirts must have collars, NO JEANS

RSVP by April 23, 2016

TEAM SPONSOR: _____

GOLFERS: 1. _____ 2. _____
3. _____ 4. _____

SPONSOR PACKAGES

Space Station: \$ 3,500 Launch Pad: \$ 2,500 Spaceport: \$ 2,000 GOLFERS __ @ \$125.00 Each \$ _____

Bringing Door Prizes? Yes ___ No ___ If Yes, Description: _____

Make Checks Payable To: "ASHRAE Space Coast Chapter" with "Space Congress Golf Tournament" on the Memo line.
Mail Checks To: 1032 Jans Place, Melbourne FL 32940

For More Information Contact: Scott Seigel, 321-474-7302

E-Mail Entries to RP@SpacecoastASHRAE.org.

Online reservations and payment may be made at <http://spacecoast.ashraechapters.org/SCGolf/>

Space Congress® is a registered trademark of the Canaveral Council of Technical Societies (CCTS).

ASHRAE Learning Institute

2016 Spring Online Course Series

2 WAYS TO REGISTER

Take 3 or more courses and save 15% off registration!

Internet: www.ashrae.org/onlinecourses

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Price: \$284 (\$219 ASHRAE Member); Two-part courses: \$484 (\$359 ASHRAE Member)

Note: You may register up to 24 hours prior to an online course. Courses are in US Eastern Time.

Combined Heat & Power: Creating Efficiency through Design & Operations

Mon, March 28, 2016 – 1:00 pm to 4:00 pm EDT

Commissioning Process & Standard 202

Wed, March 30, 2016 – 1:00 pm to 4:00 pm, EDT

IT Equipment Design Evolution & Data Center Operation Optimization

Wed, April 6, 2016 – 1:00 pm to 4:00 pm, EDT

Complying with Standard 90.1-2013: HVAC/Mechanical

Wed, April 13, 2016 – 1:00 pm to 4:00 pm, EDT

Laboratory Design: The Basics and Beyond

Mon, April 18, 2016 – 1:00 pm to 4:00 pm, EDT

Standard 188-2015 – Successfully Managing the Risk of Legionellosis

Mon, April 25, 2016 – 1:00 pm to 4:00 pm, EDT

Air-to-Air Energy Recovery Applications: Best Practices

Wed, April 27, 2016 – 1:00 pm to 4:00 pm, EDT

Fundamental Requirements of Standard 62.1-2013

Mon, May 2, 2016 – 1:00 pm to 4:00 pm, EDT

Variable Refrigerant Flow System Design & Applications

Mon, May 16, 2016 – 1:00 pm to 4:00 pm, EST

The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH credits.

Exceeding Standard 90.1-2013 to Meet LEED® Requirements

Part 1: Mon, April 11, 2016 – 1:00 pm to 4:00 pm, EDT

Part 2: Wed, April 20, 2016 – 1:00 pm to 4:00 pm, EDT

Operations & Maintenance of High-Performance Buildings

Part 1: Tue, May 17, 2016 – 1:00 pm to 4:00 pm, EDT

Part 2: Wed, May 18, 2016 – 1:00 pm to 4:00 pm, EDT

ASHRAE HVAC Design Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Cleveland • Halifax • Hong Kong • Kuala Lumpur

HVAC Design: Level I – Essentials - Registration is \$1,264 (\$1,009 ASHRAE Member)

Gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II – Applications - Registration is \$854 (\$699 ASHRAE Member)

HVAC Design: Level II — Applications provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit www.ashrae.org/hvactraining to register

Join us at ASHRAE's 2016 Annual Conference

June 25-June 29
St. Louis, Missouri

www.ashrae.org/stlouis



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- Conference Papers are published on the ASHRAE Papers website. In addition, Conference Papers are submitted to abstracting and citation services such as BSRIA, Elsevier's Scopus, and Thomson Reuters Web of Science.

ASHRAE

Join us at
ASHRAE's 2016
Annual Conference

June 25-June 29
St. Louis, Missouri

www.ashrae.org/stlouis

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Michael F. Constantinide, PE
Principal Engineer



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WOSB • 8(m)



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For just \$75, have your company advertise for one year in The Capsule and recognized 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.

Founded in 1894, ASHRAE's mission is to advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world.

Chapter Past Presidents

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Lyle Houser	1981-1982
Raymond E. Patenaude	1982-1983
Larry Curvin	1983-1984
Alan Sanford	1984-1985
Marvin Yarosh	1985-1986
Omar Hancock	1986-1987
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Henry Healy	1990-1991
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Brian Curtin	1992-1993
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Mosby West	1994-1995
Kevin Riley	1995-1996
Bill Ruppert	1996-1997
Dave Johnson	1997-1999
Bill Ruppert	1999-2000
Kannan Rengarajan	2000-2001
Jade Rymkos	2001-2002
Brian Blenis	2002-2003
Mark Terrone	2003-2004
Curtis Smart	2004-2005
David DaSilva	2005-2006
Philip Thomas	2006-2007
Laing Conley	2007-2008
David Poetker	2008-2010
Kevin Messer	2010-2012
Jeanne (Duce) Jackson	2012-2013
Scott Seigel	2013-2014
John Constantinide	2014-2016

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2015-2016 ASHRAE Spacecoast Chapter Leadership

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Resource Promotion & Grassroots Government Advocacy

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Newsletter Editor & CCTS Representative

Akshay Bhargava, M.S.

TheCapsule@SpaceCoastASHRAE.org

2015-2016 ASME Canaveral Section Leadership

Section Leadership

President

JD Van Gilder

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Scott Seigel, P.E., LEED AP, C.E.M., CxA, O.P.M.P.

Dr. Dwight Easterly, Ph.D.