



Spacecoast
Chapter



SETTING THE STANDARD

Canaveral Section

The Capsule

Newsletter for the ASHRAE Spacecoast Chapter and ASME Canaveral Section

April 2016 Issue

Message from the ASHRAE Chapter President

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

Congratulations to our newly elected 2016-2017 Chapter Board of Governors:

President: Denny Bowers, P.E., C.E.M.

President-Elect: Lee Alcorn

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

Secretary: Jim Park, CIEA, CIT, BPI

Governor: Brian Blenis, P.E., C.E.M., CBCP, LEED AP

Governor: Sam Shine

Their volunteerism is much appreciated in keeping the Chapter alive.

At our March Technical Seminar, we recognized the Chapter's 35th anniversary, looking back at past successes with our Chapter award banners on display and finalizing our Chapter elections by offering members an opportunity to vote in person. I was pleased to see the votes come in online and in person, a reflection of our Chapter's participation.

Our April Technical Seminar will cover research just completed by the Florida Solar Energy Center. As a professional technical society, our work depends on buildings research, and the Center's work on the Space Coast contributes to engineers designing better buildings in Florida.

Our upcoming Space Congress® Golf Tournament is also coming up soon, 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.

Finally, if you missed out on being part of the Chapter's Board for the 2016-2017 term, we still have opportunities for various committee chair positions. Can you help the Spacecoast Chapter by sparing 4 hours a month? If you can serve, e mail PresidentElect@SpacecoastASHRAE.org.

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Coming up

April Technical Seminar
Tuesday, April 12, Tuscany 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 Energy Efficiency and Applications of Variable Frequency Drive Motors, was both informative and insightful for all who attended. We appreciate Jeff Phillips, Regional Manager of the East Coast Region for Yaskawa America, Inc., for traveling to the Space Coast and speaking to us. Our speaker for next seminar will be Director, Buildings Research Florida Solar Energy Center, Rob Vieira, who will be presenting on the topic, "Mechanical Ventilation Costs and Failure Rates in Florida Homes," which is worth **1 FBPE PDH**.



Mr. Vieira has 30 years of experience in buildings research. He has been the buildings research division director since 2001, overseeing a research team that conducts laboratory, field and simulation research, as well as software development and continuing education activities.

Competitive research and training contracts have been awarded from the US Department of Energy, state energy offices, building code offices, utility companies and private corporations. Mr. Vieira has directed field evaluations, continuing education and FSEC's residential Energy Gauge software development. Rob was the president of the organizing committee for the Florida Green Building Coalition and served a two terms as president. He has led or been very active in developing green standards for homes, land developments, and local governments and is active in conducting research for Florida's building code program. Rob has a B.A. in Physics, an M.S. in Applied Solar Energy and an MBA.

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.**

Mark your calendar for the following remaining seminars.

ASHRAE-SAME Joint Webcast

Thursday, April 17, 2016

Webcast Seminar: 1:00 to 3:00 pm
Courtyard by Marriott ([7640 N. Wickham Rd.,
Melbourne, FL 32940](#))

Presenters: David Underwood, P.Eng., F.ASHRAE, CPMP; Marc Brune, P.E.; Philip Macey, AIA; and Dr. Paul Torcellini, Ph.D., P.E.
Topic: Making Net Zero Net Positive: Solving the Efficiency & Cost Paradox

Worth 3 FBPE PDHs, 3 AIA LUs, & 3 GBCI CEUs

ASHRAE-ASME May Technical Seminar

Tuesday, May 10, 2016

Tuscany Grill ([Click here for the map.](#))

Presenter: Allen Weiss, P.E., LC

Topic: Lighting Updates to the Florida Energy Code
Networking: 11:30 am; Lunch/Presentation: 12:00 pm

Worth 1 FBPE PDH, 1 AIA LU, & 1 ASLA CES

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.

Student Activities

Senior Design Showcase Judges Invitation 2016 By Shelley Johnson, FIT Development Director

Florida Institute of Technology (FIT) is holding the Northrop Grumman Engineering and Science Student Design Showcase, on Friday, April 8, in the Clemente Center on the Campus of Florida Institute of Technology. Last year, more than 100 engineering, science and mathematics projects were exhibited at the showcase. The event was a huge success, thanks in part to professionals like you who served in the critical capacity as showcase judges.

Typically there are 4-8 projects in each category, and individuals are asked to judge one category. Our doors open at 9:00 a.m. with judging beginning at 10 a.m. and concluding by 3:30 p.m. We will provide you with instructions, judging criteria and forms. The role of a judge is to engage with FIT students as they present their senior research projects. This is a great opportunity for both the student and industry. Students get to interact with industry professionals and industry has the opportunity to meet FIT's brightest seniors preparing to join the workforce. Judges will be provided a parking pass, offered complimentary breakfast & lunch and will also receive an official FIT 2016 Showcase T-Shirt in appreciation of your time and talent. After lunch the scores will be tallied and winners selected. The award ceremony begins at 4:00 p.m. when University President Dr. Catanese and Northrop Grumman leadership present and recognize the top prizes. You are encouraged to stay for awards, although we know as busy professionals your schedule may be filled with late afternoon commitments.

This event is a very important activity in a Florida Tech student's senior year. We believe that the opportunity to meet professionals and get crucial feedback on their work and process helps the students become better engineers and scientists as they enter the workforce. This is only possible with the gift of your time and talent.

Interested candidates, please send your Name, Organization, Email, and Contact Number to showcase@fit.edu.

Do You Have Old ASHRAE Handbooks to Spare?

The Embry-Riddle Aeronautical University Student Branch is looking for old ASHRAE Handbooks from Chapter members. Do you have any to spare? If so, please e-mail **Dr. Sandra Boetcher** at ERAU@SpacecoastASHRAE.org to arrange delivery of the Handbooks.

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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- Authors of Technical Papers published in ASHRAE Transactions may be invited to submit expanded papers for publication consideration in Science and Technology for the Built Environment, ASHRAE's journal for archival research.
- 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.





Making Net Zero Net Positive: Solving the Efficiency & Cost Paradox

April 21, 2016 | 1:00–4:00 p.m. EDT

View the webcast live after the April SAME Space Coast Post Meeting.

This webcast will feature industry experts who will define the importance of, and why we should strive for, net zero in the built environment. Viewers will be able to identify behaviors that create more effective ownership, design and construction teams, and will recognize the value of a collaborative process in building design and the impact on costs. With a strong emphasis on real-world applications, the program will also discuss the primary technical and financial challenges in achieving net zero buildings, and where this design approach can best be applied.

Attend this FREE webcast program and you may be awarded three Professional Development Hours (PDHs), three AIA Learning Units (LUs), and three Green Building Certification Institute (GBCI) CE Hours.



T. David Underwood, P.Eng.,
Fellow ASHRAE,
Life Member, CPMP



Marc Brune, P.E.



Philip Macey, AIA



Paul Torcellini,
Ph.D., P.E.



Support our sponsors! They support ASHRAE.

Michael F. Constantinide, PE
Principal Engineer



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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

Harry C. Fischer	1980-1981
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
Hardy Moore	1987-1988
James Poulin	1988-1989
Bernard Moltz	1989-1990
Henry Healy	1990-1991
Carter Quillen	1991-1992
Brian Curtin	1992-1993
Don Shirey III	1993-1994
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	2012-2013
Scott Seigel	2013-2014
John Constantinide	2014-2016

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2015-2016 ASHRAE Spacecoast Chapter Leadership

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President-Elect

Denny Bowers, P.E., C.E.M.

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Vice President & Past President

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CxA, O.P.M.P.

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Kevin Riley, P.E., C.E.M.

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Governor

Jeanne Duce, P.E.

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Chapter Committee Chairs

Programs (Chapter Technology Transfer) & Badge Dude (Reception)

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Programs@SpacecoastASHRAE.org

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Resource Promotion & Grassroots Government Advocacy

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Refrigeration@SpacecoastASHRAE.org

Newsletter Editor & CCTS Representative

Akshay Bhargava, M.S.

TheCapsule@SpaceCoastASHRAE.org

2015-2016 ASME Canaveral Section Leadership

Section Leadership

President

JD Van Gilder

Committee Members

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

Dr. Dwight Easterly, Ph.D.