



# The Capsule

## Newsletter for the ASHRAE Spacecoast Chapter and ASME Canaveral Section

March 2016 Issue

### Message from the ASHRAE Chapter President

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

Happy birthday, Spacecoast Chapter!

That is right. Our Chapter is 35 years old this March, and we will be celebrating our historical milestone on the Space Coast with a project exhibition by the ASHRAE Florida Institute of Technology Student Branch, a great presentation on variable frequency drive motors, and a guest appearance by ASHRAE Director-At-Large Daniel Int-Hout. Along with obtaining 1 FBPE PDH, this meeting will be a great opportunity to network with well-connected professionals in the Space Coast and beyond.

To commemorate our 35 years of Chapter history, we welcome our Chapter's Life Members to the meeting and plan to officially recognize them. These people have taken part in forming and advancing our ASHRAE Chapter and, in some cases, bringing our Chapter's passion for HVAC&R to other parts of the country. Join me in recognizing these individuals.

March is not only a time to celebrate the past but also look forward to continue the Chapter's work in bringing the benefits of ASHRAE to professionals on the Space Coast. We are looking for an officer and a Governor to complete the 2016-2017 Board of Governors slate, and we have a few committee chair positions remaining to be filled for the next term. Why not take advantage of the opportunities to network and learn more with these positions? Nominate yourself for a Board position or apply for a committee chair position today by e-mailing [Chapter@SpacecoastASHRAE.org](mailto:Chapter@SpacecoastASHRAE.org).

I hope to see you at the March Technical Seminar. Together, let us celebrate an enduring past and a bright future for the Spacecoast Chapter this month!

## In this issue

2 Programs

3 Employment Opportunities

## Coming up

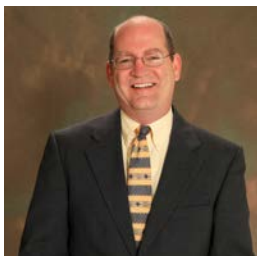
April Technical Seminar  
Tuesday, April 12, Tuscany Grill  
Networking: 11:30 am  
Lunch & Presentation: 12:00 pm

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

# Programs

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

ASHRAE Spacecoast Chapter Progras Chair



Last month's technical seminar, which covered an overview of ASHRAE Advanced Energy Design Guides (AEDGs) was both informative and insightful for all who attended. We appreciate Mick Schwedler for traveling to the Space Coast from Wisconsin

and speaking to us about these guides and how ASHRAE is moving forward with additional guides.

Our upcoming ASHRAE-ASME Technical Seminar will also be the ASHRAE Chapter's 35th Anniversary Lunch, celebrating our Chapter's past and looking forward to a great future. We have a great line-up scheduled for this meeting:

- Before the meeting, a student design team from the Florida Institute of Technology (FIT), including members of the ASHRAE FIT Student Branch, will be exhibiting their senior design project on energy efficiency measures for the Melbourne International Airport. Project team members will be present to answer questions during our networking session.
- At the start of the meeting, our Chapter's Life Members will officially be recognized by the Chapter President. Life Members are welcome to join us for this unique recognition opportunity.



Jeff Phillips, Regional Manager of the East Coast Region for Yaskawa America, Inc., will be presenting on the topic, "Energy Efficiency and Applications of Variable Frequency Drive Motors," which is worth **1 FBPE PDH**. Mr. Phillips has been in the variable speed drives business since 1985 with roles which

include field engineering, application engineering, sales, and sales management. He has been associated with Yaskawa since 1996.

And, we will have the honor of having ASHRAE Director-At-Large Daniel Int-Hout as our guest at the technical seminar.

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](mailto: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-ASME April Technical Seminar

**Tuesday, April 12, 2016**

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

Presenter: Rob Vieira

Topic: Residential Mechanical Ventilation Research Project Findings

Networking: 11:30 am; Lunch/Presentation: 12:00 pm

**Worth 1 FBPE PDH**

## 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 me at [Programs@SpacecoastASHRAE.org](mailto: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.

# Employment Opportunities

## Senior Mechanical Engineer 3 – Orlando, FL

### Preferred Qualifications

- Candidate should have an engineering Bachelor's degree in the field of HVAC/Mechanical Engineering with 10+ years of building HVAC, plumbing and piping design experience.
- Experience in designing HVAC systems for gaming, hospitality, entertainment, healthcare or commercial projects.
- Be able to lead a team of designers or engineers.
- Registered Professional Engineer (P.E).
- REVIT MEP and Auto CAD Proficiency highly desired.

### Job Responsibilities

- Experience in CAD drawing programs;
- Experience in off-grid environments; and
- Strong electrical background including electrical
- Prepare one-line diagrams.
- Prepare/ Review calculations for loads.
- Edit specifications to reflect the project requirements.
- Develop equipment room sizes during SD and DD phases.
- Select and schedule equipment.
- Meet with vendors to determine specification requirements for application.
- Coordinates with other disciplines (mepfp, arch, struct, etc).
- Respond to RFI's for the project, and accurately review submittals.
- Solve installation problems.
- Apply risk management procedures daily to minimize exp's and client's exposure to problems.
- Understand work planning and manage design process to the available hours in work plan.
- Understand proper scope of SD, DD, CD level documents – and deliver appropriate documentation.
- Work with PC, PM, and Clients to meet scheduled project milestones of multiple projects.
- Manage and deliver revisions (ASI's, etc) and sketches according to proper numbering convention.
- Edit and develop scope of work narratives (SD narrative, basis of design, etc).
- Understands specific engineering requirements for applications within a market sector.
- Understand and properly provide existing exp details relevant to projects.
- Be able to direct and mentor Designer level staff on all of their responsibilities on a daily basis.
- Perform at a 'responsible charge' level of meeting exp's design and quality levels.

- QA/QC reviews of all calculations by designers, and provide guidance and mentoring.
- Determine content of drawings and specs for Designers in order to meet the scope of work.
- Develop and monitor work plans in conjunction with other PM'S.
- Review code related items with Designers, and ensure compliance.
- Manage work plans and deliverables on multiple projects within budgeted hours.
- Write studies and reports for systems on projects.
- Writes sequences of operations for AHU's, CHW and HW systems.
- Understands and applies concepts of CHW, HW, WSHP, variable & constant flow systems.
- Air side systems- CV, VAV, coil selection, fan selection.
- Hydronic Systems-hot, chilled condenser, steam.
- Thorough understanding of psychometrics and be able to apply to every project.
- Advanced equipment selection and analysis – chillers, boilers, air terminals, cooling towers, air valves, hepa filters, DX equipment, and water source heat pumps.
- Thorough understanding of humid climate design risks.
- Thorough understanding of total energy concepts.

To apply please follow the following link

<http://chk.tbe.taleo.net/chk06/ats/careers/requisition.jsp?org=TEKNIKAHBA&cws=11&rid=5785>

## Mechanical HVAC Designer/Engineer 2 – Orlando, FL

### Preferred Qualifications

- Candidate should have an engineering degree in the field of HVAC/Mechanical Engineering with minimum 2 years of experience. 5+ years of building HVAC, design experience desired.
- EIT certification desired.
- Experience in designing HVAC systems for gaming, hospitality, entertainment, healthcare or commercial projects.
- REVIT MEP and Auto CAD Proficiency required

### Job Responsibilities

- CAD proficient with working CAD drawings.
- Prepare one-line diagrams.
- Prepare/ Review calculations for loads.
- Thorough knowledge of codes.
- Edit specifications to reflect the project requirements.
- Develop equipment room sizes during SD and DD phases.

*(Continued on next page.)*

(Employment Opportunities, from previous page)

- Select and schedule equipment.
- Coordinates with other disciplines (mepfp, arch, struct, etc).
- Meet with vendors to determine specification requirements for application.
- Respond to RFI's for the project, and accurately review submittals
- Solve installation problems.
- Apply risk management procedures daily to minimize exp's and client's exposure to problems.
- Understand work planning and manage design process to the available hours in work plan.
- Understand proper scope of SD, DD, CD level documents – and deliver appropriate documentation.
- Work with PC, PM, and Clients to meet scheduled project milestones of multiple projects.
- Manage and deliver revisions (ASI's, etc) and sketches according to proper numbering convention.
- Edit and develop scope of work narratives (SD narrative, basis of design, etc).
- Market Sector – Understands specific engineering requirements for applications within a market sector.
- Understand and properly provide existing exp details relevant to projects.
- Perform at a 'responsible charge' level of meeting exp's design and quality levels.
- QA/QC reviews of all calculations by designers, and provide guidance and mentoring.
- Determine content of drawings and specs for Designers in order to meet the scope of work.
- Review code related items with Designers, and ensure compliance.
- Manage work plans and deliverables on multiple projects within budgeted hours.
- Write studies and reports for systems on projects.
- Understands and applies concepts of CHW, HW, WSHP, variable & constant flow systems.
- Air side systems- CV, VAV, coil selection, fan selection.
- Hydronic Systems-hot, chilled condenser
- Thorough understanding of psychometrics.
- Advanced equipment selection and analysis – chillers, boilers, air terminals, cooling towers, air valves, heap filters, DX equipment, and water source heat pumps.
- Thorough understanding of humid climate design risks.
- Thorough understanding of total energy concepts

To apply please follow this Link:

<http://chk.tbe.taleo.net/chk06/ats/careers/requisition.jsp?org=TEKNIKAHBA&cws=11&rid=5784>

## 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
- "Satellite" Drink Cart Sponsors: \$750      Includes Display on Drink Cart
- "Rocket" 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](mailto:RP@SpacecoastASHRAE.org).

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

# 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](http://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

Miami • Minneapolis • San Francisco • Vancouver

#### **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](http://www.ashrae.org/hvactraining) to register

# Support our sponsors! They support ASHRAE.

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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](http://www.SpacecoastASHRAE.org).

**Jim Park, CIEA, CIT, BPI | Energy Conservation Specialist**

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Sr Engineer

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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 |

ASHRAE Spacecoast Chapter  
is on the web!

[Website](#)

[LinkedIn](#) • [Facebook](#)  
[Twitter](#) • [Google+](#)

## 2015-2016 ASHRAE Spacecoast Chapter Leadership

### Chapter Officers & Board of Governors

#### President

John Constantinide, E.I., C.E.M., M.S.

[President@SpacecoastASHRAE.org](mailto:President@SpacecoastASHRAE.org)

#### President-Elect

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

[PresidentElect@SpacecoastASHRAE.org](mailto:PresidentElect@SpacecoastASHRAE.org)

#### Vice President & Past President

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

[VicePresident@SpacecoastASHRAE.org](mailto:VicePresident@SpacecoastASHRAE.org)

#### Secretary

Jim Van Etten

[Secretary@SpacecoastASHRAE.org](mailto:Secretary@SpacecoastASHRAE.org)

#### Treasurer

Mark Thornbloom, P.E.

[Treasurer@SpacecoastASHRAE.org](mailto:Treasurer@SpacecoastASHRAE.org)

#### Governor

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

[Governor1@SpacecoastASHRAE.org](mailto:Governor1@SpacecoastASHRAE.org)

#### Governor

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

[Governor2@SpacecoastASHRAE.org](mailto:Governor2@SpacecoastASHRAE.org)

#### Governor

Jeanne Duce, P.E.

[Governor3@SpacecoastASHRAE.org](mailto:Governor3@SpacecoastASHRAE.org)

### Chapter Committee Chairs

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

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

[Programs@SpacecoastASHRAE.org](mailto:Programs@SpacecoastASHRAE.org)

#### Membership Promotion & Electronic Communications

John Constantinide, E.I., C.E.M., M.S.

[MP@SpacecoastASHRAE.org](mailto:MP@SpacecoastASHRAE.org)

#### Resource Promotion & Grassroots Government Advocacy

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

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#### Young Engineers in ASHRAE (YEA) & STEM K-12

Jeanne Duce, P.E.

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#### Student Activities

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#### Refrigeration & Auditing

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#### Newsletter Editor & CCTS

#### Representative

Akshay Bhargava, M.S.

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E-mail John Constantinide to apply for one of the following opportunities:

- Historian
- Website

## 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.