



## EVENT SPONSOR



## ASHRAE 62.1 MULTIZONE DESIGN EQUATIONS



## AGENDA

- Review requirements of ASHRAE Standard 62.1 2016 ventilation rate procedure (VRP)
- Review single zone, 100% outdoor air, and multiple zone constant volume (CV) systems
- Evaluate variables that are important in VAV systems

**DISTINGUISHED LECTURER:**

**HOY BOHANON, PE**

**NETWORKING: 11:30-12:00**

**PRESENTATION: 12:00-1:00**

**\$20.00 ADMISSION**

**INCLUDES LUNCH**



7640 N Wickham Rd, Melbourne, FL 32940



**1 PDH**

**9-12-17**



# The Capsule

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

### August 2017 Issue

#### Message from the ASHRAE Chapter President

By **Lee Guthrie**  
**ASHRAE Spacecoast Chapter President**

Welcome to the 2017-2018 ASHRAE Year. I want to thank Denny Bowers for all of his efforts as President last year. We increased our membership, held many great technical seminars and 2 very successful golf tournaments. I also want to give a big thank you to all of those that served on committees, Board of Governors, and leadership positions.

We need volunteers like you to keep making our chapter great. If you have a couple of hours, and I mean only a couple of hours each month, it would help to make this chapter the best in the region.

We have many great seminars planned for this coming year and we are very excited to have Distinguished Lecturer Hoy Bohanon, PE as our speaker for the September Technical Session.



Use of the multiple spaces equation is now a code requirement in many areas and is a requirement of LEED for any new building that uses multiple space ventilation systems. Why is the equation there? How do you use the equations? What are the two options? Does the system approach make a difference in the quantity of outdoor air required? This presentation presents answers and discussion points for these important questions.

Lee Guthrie  
[PresidentElect@SpaceCoastASHRAE.org](mailto:PresidentElect@SpaceCoastASHRAE.org).

## In this issue

2 Programs

3 Employment Opportunities

## Coming up

September Technical Seminar  
DL – Hoy Bohanon, PE  
ASHRAE 62.1 Multizone Design Equations  
Tuesday, May 9, Tuscany Grill  
Networking: 11:30 am  
Lunch and Seminar: 12:00 pm

October Technical Seminar  
Speaker : Kristina Gonzalez, NASA  
Topic: International Space Station  
HVAC System  
Florida Beer Company  
Cape Canaveral, FL  
[www.SpaceCoastASHRAE.org](http://www.SpaceCoastASHRAE.org).

# Programs

Our Technical Seminars are on the 2<sup>nd</sup> Tuesday of every month at Tuscan Grill, unless otherwise noted. The cost for attendees is \$20, which may be paid at the event or online at [www.SpaceCoastASHRAE.org](http://www.SpaceCoastASHRAE.org)

**September 12 (Tuesday)**

**ASHRAE-ASME-USGBC Joint Technical Seminar  
YEA Night**

**Speaker:**

**ASHRAE Distinguished Lecturer Hoy Bohanon, P.E.**

**Topic:**

**ASHRAE 62.1 Multizone Equations**

Tuscany Grill

(7640 N Wickham Rd, Melbourne, FL 32940)

Networking at 11:30 am;

Lunch and Presentation at 12:00 pm

Worth 1 FBPE PDH

Sponsored by **CosaTron**

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**October 10 Tuesday**

**ASHRAE-ASME-USGBC Joint Technical Seminar  
GGAC Night**

**Speaker: Kristina Gonzalez, NASA**

**Topic: International Space Station HVAC System**

Florida Beer Company

(200 Imperial Blvd, Cape Canaveral, FL 32920)

Presentation at 5:00 pm

Worth 1 FBPE PDH

Sponsored by **Envelop Facility Technologies,  
Moon Express, and SpaceX**

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**November 9, Thursday**

**ASHRAE-ASME-USGBC Joint Technical Seminar**

**Speaker:**

**ASHRAE Distinguished Lecturer Chuck Gulledege, P.E.**

**Topic: Industrial Green Design**

Sonny's BBQ

(310 N Courtenay Pkwy, Merritt Island, FL 32953)

Presentation at 5:00 pm

Worth 1 FBPE PDH

Sponsored by **Evaptech and I.C.E.**

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**December 12, Tuesday Evening**

**Past Presidents Night**

Location: TBD

**January 9, Tuesday**

**ASHRAE-ASME-USGBC Joint Technical Seminar**

**Speaker: Bjarne Olesen, ASHRAE Society President**

**Topic: Radiant Cooling for Humid Climates**

Would you be interested in presenting a cutting-edge technology or discussing technical methods to an avid audience of engineers? To schedule your speaking engagement at an upcoming ASHRAE-ASME-USGBC Technical Seminar, please e-mail [Programs@SpaceCoastASHRAE.org](mailto:Programs@SpaceCoastASHRAE.org).

## 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](#).

**Would you and/or your company like to be recognized in the newsletter and chapter website?**

Donate a \$100 to ASHRAE Research and have it designated for the Spacecoast ASHRAE Space Congress Scholarship. Donations accepted online at [www.spacecoastashrae.org](http://www.spacecoastashrae.org) or by bringing your \$100 donation to our monthly meeting.

It is that easy and very much appreciated!

# Employment Opportunities

## Mechanical Project Manager

TLC Engineering for Architecture, a dynamic and growing National Engineering firm, is seeking qualified and motivated Mechanical Project Managers interested in working on a wide range of engineering projects that include the HVAC design of large-scale buildings. This firm has designed over 318 LEED projects.

### RESPONSIBILITIES:

- Diverse design experience in mechanical systems
- Coordinate efforts between Mechanical, Electrical, Plumbing, and Structural disciplines to ensure team collaboration in order to achieve project goals.
- Coordinate activities of team members and assist in production needs to meet deadlines.
- May function as EOR or Project Engineer if licensed

### REQUIREMENTS:

- 6+ year of experience in similar Architectural Engineering, MEP or Engineering consulting firm.
- Project Management experience with ability to market engineering services.
- Prior experience on multi-site projects a plus.
- Proficiency in AutoCAD or revit.
- BSME or BSAE from an ABET accredited engineering program is preferred, but not required.

### BENEFITS:

A comprehensive benefits package which includes;

- Competitive Salary and Paid Time Off
- Medical, Dental, Vision, Flexible Spending
- 401K with company match
- Flexible schedules

For those interested in the job opening, please refer to [www.tlc-engineers.com](http://www.tlc-engineers.com).

## Manager – Energy & Resource Conservation

Starting Salary Range - \$66,734 Minimum / \$82,242 Mid-point / \$100,502 Maximum

### Qualifications:

- Bachelor's Degree in Mechanical Engineering, Energy Management, or related field from an accredited educational institution required.
- Registered as a Professional Engineer preferred.
- Five years' experience in HVAC/R design and construction, facilities energy management, or related field.

- Three years' supervisory experience with the above experience.
- Certified Energy Manager Certification required within one year of employment.
- Valid Florida Driver License.

Location: 2700 Judge Fran Jamison Way, Viera, FL 32940

Please send resume to:

By Mail: Suzie Gilmore, Facilities Department, 2700 Judge Fran Jamieson Way, Viera FL 32940

Fax: 321 633-4646

Contact: 321 633-1000x450

E-mail: [Gilmore.suzie@brevardschools.org](mailto:Gilmore.suzie@brevardschools.org)

### JOB DESCRIPTION:

1. Manage, develop, research, and implement District-wide energy and resource conservation programs.
2. Analyze, Investigate, and test new energy and resource conservation concepts and products.
3. Establish utility consumption targets District-wide and for individual facilities.
4. Effectively communicate energy and resource conservation programs, goals, and results to site administrators and general public in writing, in oral presentation, and on the District website as applicable.
5. Prepare fiscal year-end utility cost projections and estimate utility costs for future fiscal years.
6. Serve as an engineering advisor to the Facilities Staff staff.
7. Prepare performance specifications for electrical, mechanical, and energy conservation projects.
8. Coordinate and interpret School Board engineering standards for consulting engineers.
9. Review construction, renovation, or remodeling project plans and specifications to assure compliance with District design standards and applicable laws, rules and regulators applicable to energy.
10. Manage mechanical, electrical, and energy conservation construction projects and related professional services as required.
11. Supervise department and administrative staff as necessary to achieve energy and resource conservation program goals.
12. Perform other duties as assigned commensurate with the skills and abilities of the position.



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www.alphamrc.com

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

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) Jackson	2012-2013
Scott Seigel	2013-2014
John Constantinide	2014-2016
Denny Bowers	2016-2017

ASHRAE Spacecoast Chapter is on the web!

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## 2016-2017 ASHRAE Spacecoast Chapter Leadership

### Chapter Officers & Board of Governors

#### President

Lee Guthrie, LEED AP  
[President@SpacecoastASHRAE.org](mailto:President@SpacecoastASHRAE.org)

#### President-Elect

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

#### Secretary

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

#### Treasurer

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

#### Past President

Denny Bowers, P.E., C.E.M.  
[PastPresident@SpacecoastASHRAE.org](mailto:PastPresident@SpacecoastASHRAE.org)

#### Governor

Brian Blenis, P.E., C.E.M., CBCP,  
LEED AP  
[Governor1@SpacecoastASHRAE.org](mailto:Governor1@SpacecoastASHRAE.org)

#### Governor

Kevin Riley, PE  
[Governor2@SpacecoastASHRAE.org](mailto:Governor2@SpacecoastASHRAE.org)

### Chapter Committee Chairs

#### Programs (Technology Transfer)

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

#### Membership Promotion

Michael Angell  
[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.  
[RP@SpacecoastASHRAE.org](mailto:RP@SpacecoastASHRAE.org)

#### Historian

David DaSilva, P.E.  
[History@SpacecoastASHRAE.org](mailto:History@SpacecoastASHRAE.org)

#### Young Engineers in ASHRAE (YEA)

Jake Rardin  
[YEA@SpacecoastASHRAE.org](mailto:YEA@SpacecoastASHRAE.org)

#### STEM K-12 & Student Activities Chair

Jonathan Fairall  
[STEMK-12@SpacecoastASHRAE.org](mailto:STEMK-12@SpacecoastASHRAE.org)

#### Student Activities Co-Chair

Dr. Hamidreza Najafi, Ph.D.  
[SA@SpacecoastASHRAE.org](mailto:SA@SpacecoastASHRAE.org)

#### Electronic Communications

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

#### Website Manager (Webmaster) & CCTS Representative

John Constantinide, E.I., C.E.M., LEED  
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#### Badge Dude (Reception)

Kevin Riley, P.E., C.E.M.  
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## 2016-2017 ASME Canaveral Section Leadership

### Section Leadership

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#### Committee Members

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