

November/December Newsletter 2017

ASHRAE South Carolina Chapter



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UPCOMING IMPORTANT DATES

November Chapter Meeting.....November 21, 2017
 Oyster Roast.....December 01, 2017

November/December 2017

We are coming up on one of the busiest time for ASHRAE and in life as the holidays fast approach. Our first meeting and Joint MCA meeting were a success with quite large turnout. Let's keep that momentum through the next few weeks and months.

We have our first lunch meeting on November 21, 2017 at still Hopes. We hope that more design engineers can find some time during their lunch our to gain some knowledge about optimizing a buildings performance with pressure independent and BTU meter/valves. After that we have our long-standing Oyster Roast Tradition at Old Monticello Hunt Club on December 1st. Those are our last events until the New Year!



Michael Rushing

South Carolina Chapter President 2017-2018

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Chapter Meeting

November Chapter Meeting Notice

Tuesday, November 21, 2017 at 12:00 PM

Optimizing Building Performance to Save Energy and Improve Control

There are vast benefits involved with using pressure independent valves. Technology continues to expand the scope of these benefits. In this course you will learn how pressure independent valves can make your hydronic system more stable, easier to control and less expensive to operate. In addition, you will learn about the pressure independent valve technologies that are available in the marketplace. This discussion begins with simple mechanically regulated PI valves and goes all the way to the electronic pressure independent valves and a pressure independent control valve with a fully integrated BTU meter.

November Meeting

Shane Winters, Sales Manager for Belimo

Shane Winters is currently a Sales Manager for Belimo Americas, he manages and supports their actuator, valve, and sensor business in the Carolinas. Over the last 10 years in the HVAC industry Shane has worked in numerous roles including technical sales, engineering, and technical support in regions along the east coast U.S. Originally from Hershey, PA, Shane has a BS in Electro-Mechanical Engineering Technology from Penn State University.



November Meeting Details

Date: Tuesday November 21, 2017 @ 12:00 PM

Social from 12:00 to 1:30PM

Speaker: Shane Winters

Location: Still Hopes, 1 Still Hopes Dr, West Columbia, SC 29169

Lunch would be provided at the meeting.

You MUST RSVP if you plan to attend the meeting. Please email our secretary at Colin.B.Shropshire@carrier.utc.com. Also, you can also RSVP at <http://www.scashrae.clubexpress.com>. This helps the chapter accurately order food from the catering company

To those of you that we've seen at the meetings, we truly appreciate you joining us. To the others, we would like to know what it would take to get you there. Please feel free let us know what you would like to get out of the meetings. And don't let the name throw you off, either. Although YEA stands for Young Engineers in ASHRAE, being an Engineer is not a requirement. All that's necessary is that you are a member of ASHRAE and 35 years old or younger.

YEA members make up about 17% of the total membership. We are driving to help this statistic grow, but we can't do it without your help! Our meetings are a great time to network with other professionals in the industry and find out more about what is going on in the ASHRAE world. But don't think of it as just work. It's also a time to socialize with the friends you'll inevitably make in this crowd. A meeting never goes by without smiles and a laugh. We hope to see you at the next one.

There are many opportunities in ASHRAE whether its technical training, leadership training, or fellowship. One SC YEA member (Sam Bernstel) was had the opportunity to attended a ASHRAE YEA Leadership weekend in Baltimore Maryland. We asked him to share his experience in his own words.

"In October, I had the privilege of being sponsored by our Region to attend the YEA Leadership Weekend (YLW) in Baltimore, MD. The YLW is designed as an opportunity to learn more about the Society as a whole, develop soft skills, and network with other young professionals. The event coordinators achieved this and so much more. The group and was comprised of ~30 attendees, plus coordinators and the speaker. There was a mix of design engineers, sales engineers, and managers, and people from as far away as Brazil and Pakistan.

Friday morning, we went on a technical tour of the Orioles and Ravens Stadiums. We toured the HVAC systems and playing fields of both facilities, in addition to the jumbotron control room for the Ravens stadium. That afternoon, we were briefed on the overall structure of ASHRAE and then dived into the icebreakers. If you're an introvert, this was easily the most uncomfortable part of the weekend. The icebreakers included awkward dancing in small groups in front of everyone else, building with LEGOs via the grade school telephone game, and a Scavenger Hunt around downtown Baltimore.

Saturday was focused on soft skill development. The speaker, Ralph Kison, introduced the traits and characteristics of a good leader and then hit his first major point; determining our "Why" and how to lead with our "Why", more commonly referred to as our Vision. Often, people try to lead by focusing on "What" they do or "How" they do it, but this simply doesn't captivate people in the same way focusing on our "Why" does. He shared a great TEDx video with Simon Sinek that really drives the point home. I urge you to watch it when you have the time. The biggest takeaway can be summed up in a quote from Simon: "The goal is not to do business with people who buy what you provide, it is to do business with people that buy from you because of why you do it. Find people (employees & clients) that connect with your why."

https://www.ted.com/talks/simon_sinek_how_great_leaders_inspire_action#t-26778

Next, Ralph focused on personality types. Before the event, everyone was tasked with completing a personality profile. This basically divided the group into two types of people; Initiators and Implementers. Initiators are characterized by being more risk oriented, ambitious, decisive, future focused, and results oriented (basically all the sales engineers and higher level managers in the room). Implementers are characterized by being more risk averse, activity focused, security motivated, team oriented, and present/past focused (basically all the design engineers, technical specialists, etc.). Each personality type is also capable of being a Facilitator. Facilitators are the people that can play on both sides of the fence between Initiators and Implementers (often engineers or technical specialists that move up into higher management roles). It was no surprise that I am an Implementer (extremely detail oriented, risk averse, somewhat of an introvert). We discussed the pros and cons of each type and even had some friendly banter on what annoys us about the other personality types. We also talked about aligning our natural behaviors with

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how we must behave for our jobs. If you're not a social person, but your job requires you to constantly socialize, you'll likely have a hard time excelling in that role because you will be in a constant internal struggle.

Lastly, we talked about the different types of intelligence: IQ (intelligence quotient), EQ (emotional quotient), and PQ (passion quotient). All three of these intelligences are important, but the intensity of their role varies based on where you are in your career. A great leader needs to know how to utilize all three. On Sunday, we wrapped up with a review and some mind mapping of ourselves and ASHRAE. The mind mapping of ASHRAE was eye opening in that it showed just how expansive ASHRAE is. It's not just a technical society. It's a culture, a means of outreach to the community, a means of growing not only in your career but as a person, and, most of all, a means of making the world a better place by helping others and bringing us all together.

Please know that you don't need plans to be a manager or high level leader to participate in this event. Everyone, regardless of their current or anticipated future roles stands to gain something from going to a YLW. This time, I was fortunate enough to be nominated by a Chapter Board Member (Thanks, Colin!) to be sponsored by the Region. The region sponsors someone each time YLW is on the East Coast, which is typically in the Fall. However, the next YLW is being held in Seattle, WA March 23rd-25th. More details can be found at the link below. The nomination process for the YLW next Fall will likely be next Spring. Please reach out if you would like to be considered for nomination from our Chapter.

<https://www.ashrae.org/membership--conferences/young-engineers-in-ashrae/yea-leadership-weekend>

Sam Bernstel"



John Thompson

YEA Chair, SC Chapter

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Although we're all students of life, Student Activities in ASHRAE focuses on the more traditional definition of students; a person who is studying at a school or college. Our primary goal for Student Activities this year is growing our membership presence at the University of South Carolina. Last year, we saw several of our members graduate and move on to the next stage of their lives. This presents us with a great opportunity to grow in presence at the University and help get more young individuals become interested in our profession. This year, we also plan to break new ground for our Chapter by reaching out to K-12 Schools around the area and participate with the younger generation. It's never too early to engage a young mind and help them learn to think critically.

If you know of any College students that may want to get involved with the Student Chapter or know of any schools in the area that may be interested in ASHRAE performing an activity with their student, please don't hesitate to reach out to us. We'd love to get involved.



Sam Bernstel

Student Activities Co-Chair, SC Chapter

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November/December 2017 Edition

Greetings!

As the holiday seasons fast approaching, just want to take this opportunity to wish everyone has a safe and enjoyable holiday seasons. Take this time to spend time with family, friends and relatives.

ASHRAE is conducting a membership promotion events for any new members that join by Nov 23, 2017, they will be automatically entered to win a complimentary 2018 ASHRAE Winter Conference Registration and 5 nights hotel stay in Chicago.

Please share this great news to your friends, coworkers and others.

Why Join?

Community – You'll see this incredible community fist-hand at the Winter Conference. Over 56,000 members, in 187 chapters. No matter what city you live in, chances are there is a group of ASHRAE friends nearby.

Involvement – Not required, but worth it. From technical committees to chapter-level volunteer opportunities, ASHRAE has a lot of ways for you to get involved.

Education – ASHRAE offers 900 Professional Development Hours of instruction, covering all major applications, and fundamentals. Members get discounts.

Publications – ASHRAE Members have access to the single largest source of HVAC&R knowledge in the world. And they get discounts.

Most members join at the Associate level, which is open to anyone (only \$206 a year).

When you join with code "Friends" by Thanksgiving (November 23, 2017) you'll be automatically entered to win. If you've already registered for the 2018 Winter Conference and you are selected as the winner, ASHRAE will refund the amount of your conference registration. The winner will also receive a **complimentary hotel stay for the duration of the conference from Friday, January 18 through Wednesday January 24**. You can also enter the sweepstakes by emailing marketing@ashrae.org with your Full name and phone number by 11/23/2017.

Winner will be notified November 28, and announced December 1, 2017.

Please see the website for more detail information.

<https://www.ashrae.org/membership--conferences/friends>

ASHRAE South Carolina local chapter would not be successful without your support, if you have any questions about renewing the membership or would like to bring a new member to join ASHRAE, please don't hesitate to reach out to me, I will try my best to provide help and support.

We also encourage you to invite your co-workers, customers, suppliers or friends to come attend the local chapter events as guest or they can join as a member.

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Joining ASHRAE membership Link (National Chapter)
<https://www.ashrae.org/membership--conferences/join-now>
Chapter Name: South Carolina, Chapter # 031, Region IV
<http://scashrae.clubexpress.com/>

Seak-Hwa Tan

MP Chair, SC Chapter
Seak-Hwa.Tan@JCI.com

Calling All Pieces of History!

They say that you can't know where you are going until you know where you have been. With that in mind, let's ensure our chapter history helps build a brighter and better future for ourselves. In an effort to preserve our chapter history, we will be consolidating historical items into a central storage site. If you have anything from our history, whether it be signs, old pictures, plaques, banners, the two roll up banners listing past presidents, etc... please contact Daniel Winders (Daniel.v.winders@jci.com)

Below is a highlight of one of the SC Chapters past presidents!



Past Presidents-1958 HARRY HAAR

Harry Haar began his career in Spartanburg, South Carolina working with J.C. Harrison, P.E. Harry was noted for his skills in drawing all of his equipment room piping in isometrics to show exactly what he wanted. He had a great reputation in the Heating and Air Conditioning Industry. The Harrison firm was the Engineer of choice for much of the School projects in the Greenville and Spartanburg areas.

The Oyster roast will be on December 1st, and it is always a blast. If you have not been then you should consider attending. It's a low key event and a great chance to see everyone outside of work. Please mark your calendars! A flyer with details will be out very soon. As always check www.scashrae.clubexpress.com to stay informed about the latest SC ASHRAE events.



John Guignard

RP Chair, SC Chapter

Johng@hahnmason.com

Who will be the 2017-2018 ASHRAE Sponsors? Sign up now!

\$800 – Diamond Chapter Sponsorship:

Includes:

- (1) Foursome for spring golf outing
- (1) Hole sponsorship for fall and spring golf tournaments
- Company logo on each newsletter and on SC Chapter main web page

\$200 – Web Site Sponsor

Includes:

- Company logo on SC Chapter main web page

\$200 – Chapter Meeting Sponsor

Includes:

- Table outside of meeting room for display or literature
- Logo on welcome message during meeting
- Announcement of sponsorship during meeting

If you would like to be a sponsor for the 2017-2016 calendar year, please click on the link for more information or contact Michael Rushing (below is the email)

http://scashrae.clubexpress.com/content.aspx?page_id=22&club_id=28006&module_id=254034&sl=712922394.

Michael Rushing

Chapter Board of Governors, SC Chapter

Michael.rushing@hbtech.biz

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Scholarships Available - Apply Today!

Through its scholarships, ASHRAE seeks to motivate students and prospective students worldwide to pursue an engineering or technology career in the HVAC&R field. The Society's Scholarship Program also serves the public interest by aiding in the education of men and women to become qualified to practice as engineers in HVAC&R. ASHRAE has 28 scholarships available for the 2015-16 school year, for high school seniors entering college through senior undergraduate engineering students and engineering technology students. ASHRAE is seeking your assistance in making student members aware of this financial assistance.

- * 8 regional/chapter and university-specific scholarships — \$3,000 to \$5,000 each. Now accepting applications!
- * 12 undergraduate engineering scholarships — \$3,000 to \$10,000 each. Now accepting applications!
- * 4 high school senior scholarships — \$3,000 each
- * 4 engineering technology scholarships — \$5,000 each

Qualified students are encouraged to apply online:

www.ashrae.org/scholarships

Annual Application Deadlines:

May 1st for Engineering Technology and High School Senior Scholarships

Scholarships are awarded for the academic year following the application deadline beginning with the fall semester. For a list of available scholarships, complete eligibility requirements, and an application, visit

www.ashrae.org/scholarships

ASHRAE Learning Institute 2017 Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

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

One-part course (3 hours) **\$284 (\$219 ASHRAE Member)** – – – Two-part course (6 hours) **\$484 (\$359 ASHRAE Member)**

NEW! Fundamental Requirements of Standard 62.1-2016

Wednesday, September 6, 2017 – 1:00 p.m. to 4:00 p.m.

Designing High-Performance Healthcare HVAC Systems

Tuesday, September 19, 2017 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond

Tuesday, October 10, 2017 – 1:00 p.m. to 4:00 p.m.

Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems

Monday, October 16, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Complying with Standard 90.1-2016

Part I: Wednesday, November 1, 2017 – 1:00 p.m. to 4:00 p.m.

Part II: Tuesday, November 7, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! Variable Refrigerant Flow System: Design & Application

Wednesday, November 29, 2017 – 1:00 p.m. to 4:00 p.m.

NEW! New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs

Tuesday, December 5, 2017 – 1:00 p.m. to 4:00 p.m.

ASHRAE HVAC Design & Operation Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Columbus • Denver • Dubai

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 and learn how your Chapter can earn PAOE points.

Contact Karen Murray (kmurray@ashrae.org) to discuss scheduling ASHRAE HVAC Training in your Chapter area.

Are you missing out?

Don't miss out on the latest ASHRAE publications! For more information, visit the Resources and

ASHRAE JOURNAL



Most college science buildings consume a lot of energy. But, the Davis Building at the University of Findlay has a site EUI of only 64

kBtu/ft², which is significantly lower than most similar buildings that include labs with many fume hoods. This issue also features articles about when adding more fan power can be a good thing, the future of residential construction and a side-by-side comparison of VAV vs. radiant.

[Learn More >](#)

HPB MAGAZINE



Learn how the Federal Center South Building 1202 fosters a culture of collaboration, while the Haywood

Community College Creative Arts Building welcomes artists with open, daylit spaces that maximize passive strategies to reduce energy use. The SIERR Building at McKinstry Station demonstrates that even a nearly condemned building can be transformed into a high performing, energy-efficient office.

[Learn More >](#)

PUBLICATIONS CATALOG



[Interactive Catalog](#)

[Downloadable Catalog \(PDF\)](#)

ASHRAE TERMINOLOGY



Explore this new free resource, a comprehensive online glossary of more than 3700 terms related to the

built environment, with a focus on HVAC&R terms. Learn more at www.ashrae.org/ASHRAETerms

Publications page: www.ashrae.org/resources--publications

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How Do I Join ASHRAE?

1. Visit <https://scashrae.clubexptess.com> to start the process
2. Click "Membership" on the horizontal menu bar
3. On the pull down menu, click "Join our Mailing List"
4. A prospective member will then be directed to enter his or her email information.
5. Our Membership Promotion Chair will then contact you to walk you through joining our chapter

Convenient and Useful ASHRAE Links

Again, this year, our use of the Internet to further embrace our goal of Modeling a Sustainable World will be continued. Please use the web sites listed below:

1. RSVP and prepay for each event through the SC ASHRAE <http://www.scashrae.clubexpress.com>. For events where meals are served, you must at least RSVP to ensure that there will be a meal for you. We encourage you to prepay, as this will speed your way through the check-in process.
2. Donate to ASHRAE Research Promotion. We have a fundraising goal of \$11,500 this year, so please do what you can to help fund ASHRAE research. Donate here: http://scashrae.clubexpress.com/content.aspx?page_id=301&club_id=28006