

March/April Newsletter 2018

ASHRAE South Carolina Chapter



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UPCOMING IMPORTANT DATES

March Chapter Meeting.....	March 20, 2018
SC Day on the Hill.....	March 21, 2018
March Chapter Meeting	April 17, 2018
CTTC Webcast.....	April 17, 2018
Golf Tournament	May 11, 2018

March/April 2018

We are coming up on one of the busiest time for ASHRAE and in life as the holidays fast approach. We are excited about our next meeting because it is a joint meeting with the local AIA Chapter. We are expecting quite a large turn out so please be sure to attend.

We have our second lunch meeting on March 20, 2018 at still Hopes. We hope that more design engineers can find some time during their lunch to gain some knowledge about the coming of age of smart buildings and smart grids and network with AIA member. After that we have our annual Golf Tournament at Woodland Country Club on May 11th.

Thank you for your continued support.



Michael Rushing

South Carolina Chapter President 2017-2018

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www.scashrae.clubexpress.com

March Chapter Meeting Notice

Tuesday, March 20, 2018 at 11:30 AM

The Coming of Age of Smart Buildings

The smart grid is coming and in that future era buildings will be interacting even more with the electric utilities. The communication will be in both directions, with the utility working to balance the grid supply and demand through methods such as signaling requests for demand response measures, real-time price adjustments, etc. This is a new and evolving field and, while there are some differences in the need for and how a smart grid might function in the various regions of the world, there are some common factors as well. This seminar provides an overview of the smart grid particularly as it relates to buildings and their systems.

Thomas M. Lawrence, Ph.D. Dr. Lawrence is the Mechanical Engineering program lead with the University of Georgia, and has 35 years of professional experience. He spent the first 18 years in industry and after going back for his PhD at Purdue he has been at UGA since January 2004. He is the past chair of ASHRAE Technical Committee 2.8 and is a member of the committee that wrote and maintains ASHRAE Standard 189.1 for High Performance Green Buildings. As an ASHRAE Distinguished Lecturer, he gives seminars on green building design at venues around the world. Dr. Lawrence was named an ASHRAE Fellow in 2016 and is a Director-at-Large on the Board of Directors for ASHRAE. Dr. Lawrence has a B.S. with Highest Distinction in Environmental Science from Purdue University (1978), a M.S. degree in Mechanical Engineering from Oregon State University (1982) and a second M.S. degree in Engineering Management from Washington University in 1989. He received a Ph.D. in Mechanical Engineering from Purdue University in the spring of 2004.



Meeting Details

Date: Tuesday March 20, 2018 @ 12:00 PM

Social from 11:30 to 1:00PM

Speaker: **Thomas M. Lawrence, Ph.D.**

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

With the 2017-2018 ASHRAE year slowly coming to a close, our YEA group thought it would be beneficial to host an event aimed at networking with other young professionals around the Columbia area. For those of you that don't know, YEA stands for Young Engineers in ASHRAE and we are the group of members under 35 years old that help promote ASHRAE events targeted at young professional engineers. Our aim is to not only network with other professionals in the industry, but also provide access to technical committees and scholarship opportunities.

In this case, we set up a bowling and happy hour night with the local Young Architects Forum (YAF). The design of modern buildings plays an integral part in the way that HVAC systems are laid out and engineered, so we figured it would be a perfect opportunity to get our groups together. It was a successful event and the turnout was better than expected! The YEA and YAF will be coordinating another event next year.

As always, our chapter encourages anyone interested to come out to one of our monthly meetings for dinner, a great speaker, and networking! The Chapter still has a number of great events coming up, so check out <http://scashrae.clubexpress.com/> for a list and to register!



John Thompson

YEA Chair, SC Chapter

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It's been a great year for Student Activities in the South Carolina Chapter. We've broken new ground by holding our first K-12 outreach event. We visited Edisto Elementary School in Orangeburg, SC and spent the day with their 3rd grade class. We told them a little bit about what ASHRAE is and does and then went through a hands-on activity. They recently covered electricity in their curriculum so we expanded on that by teaching about electromagnets by building electromagnetic fishing poles. In total, we had 12 volunteers from the Chapter and about 225 kids participate. It was a lot of fun for everybody and the kids are looking forward to us coming back.

On the higher education side of things, we have an eager and growing Student Chapter at the University of South Carolina. Last year, the Faculty Advisor had to step down and several Student members graduated. Dwindling membership and lack of leadership presented great opportunities for Student chair members to take the reins, and they did so with vigor. With their help, we held an outreach presentation and got 3 brand new members. This, combined with reaching out to our in-grade student members, we've grown the Student Chapter to a total of ___ members. We look forward to growing and getting more involved with them!

ATTENTION THOSE WITH SUMMER INTERNSHIP OPPORTUNITIES: The Student members have started uploading their resumes to the ASHRAE Internship job board. If you have any internship opportunities and would like to target our local Student Chapter members, the ASHRAE Internship Job Board is a great place to get connected. This would also land major PAOE Points for our Chapter. If you have any questions, please feel free to reach out to us.

https://jobs.ashrae.org/jobseeker/search/results/job_type/Internship/?msessid=F7AJ4



Sam Bernstel

Student Activities Co-Chair, SC Chapter
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March/April 2018 Edition

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).

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.

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

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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!



- Q:** How long have you been involved with ASHRAE?
- a. Since 1983
- Q:** What is the main reason you joined ASHRAE?
- a. To become a part of and stay active in the local HVAC and Engineering Community
- Q:** What's the biggest difference in the chapter when you were president (1990-1991) to now?
- a. I think we had better attendance from Local Engineers and few more people at the meetings 28 years ago. We looked forward to the fellowship together and relaxing.
- Q:** What was your biggest challenge as President?
- a. Getting paperwork from everyone, then getting it completed and into ASHRAE on time.
- Q:** What's your favorite memory of ASHRAE
- b. All of the people I have met over the years and the friendships I have formed.

The Oyster roast was a success and were glad to have all those who attended. Our next RP fundraising event will be the SMASHRAE Golf Tournament May 11, 2018 at Woodlands Country Club. A flyer with details and registration will be out very soon.

Please consider making a donation to the research campaign. If you have any questions, contact me.

As always check www.scashrae.clubexpress.com to stay informed about the latest SC ASHRAE events.



John Guignard

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RP Chair, SC Chapter
Johng@hahn-mason.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 2017-2018 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



2017 Online Course Series:

- \$284 non-member / \$219 member (Two-part courses: \$484 non-member / \$359 member)
- Earn 3-6 PDHs
- [See course listing](#)
- Register five or more and Save!

Register Today for ASHRAE's 2017 Online Course Series.

HVAC Design and Operation Training:

- 3 courses, 7 days of instruction
- Improving Existing Building Operation \$599 non-member / \$499 member
- Level I - Essentials \$1,264 non-member / \$1,009 member
- Level II - Applications \$854 non-member / \$699 member
- World-wide HVAC training available, view training [schedule](#)
- **Register** early and Save!

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