

## Upcoming Event Excitement!

We have a lot of exciting  
events around the corner!

## GOLF

Friday,  
October  
20th, 2017



## Next Meeting Tuesday, September 19th

Harbor Breeze at Patriots Point, Mt. Pleasant

BOG Meeting 5:00-5:30

Happy Hour 5:30-6:00

Chapter Meeting/ Dinner 6:00-7:00

\$30/person

[REGISTER ONLINE](#)

## Presidential Letter by Philip Runyon

We hope everyone had a peaceful summer and are ready for another exciting year of ASHRAE. Our first meeting will be held Tuesday, September 19th at Harbor Breeze at 6 pm. A summary of the meeting can be found in the following section of the newsletter and we look forward to starting the year off with a bang with one of ASHRAE's distinguished lecturers. We hope to have well attended meetings this year so please try and spread the word to others in the industry about our meetings and topics.

I would first like to thank our outgoing President Megan Rooney for an outstanding job leading our chapter this past year. We look forward to her continued leadership taking over YEA and being on the Board of Governors. She is a valued member of our organization so it will be large shoes to fill for me this upcoming year. We had a great turnout from the Charleston Chapter at CRC this year in Greensboro, NC. We won several awards and look forward to chasing some more of those awards throughout this year!

Membership Promotion is going to be one of the main focuses of my year as President. I would like to try and broaden our member base and get more attendance from the local engineering community which is growing each year. Please reach out to employers in our industry and try to bolster some new attendance at our meetings. The golf tournament is a great place to introduce some new people to our chapter members so please get a team together and try to bring along a couple of new faces in each group.

Megan is going to lead our YEA committee this year so be on the lookout for some fun events coming up in the near future. These will be for YEA as well as YEA at heart members. YEA is classified as any member 35 & under but all of our "YEA" events will be open to all to attend. ASHRAE is making great strides in trying to attract the younger engineers into our organization with many different programs as well as mentoring opportunities. Please check out Megan's YEA corner below if you are interested.

See you all at our first meeting as long as Hurricane Irma stays away! We will have a contingency plan in place in case the weather affects our meeting time so be on the lookout for updates if the path changes over the next several days.

Philip Runyon



## Chapter Sponsors

Thank you for your sponsorship. If you would like to support the chapter, please contact the President.

Speak to Philip Runyon on how to become a Chapter Sponsor.

## ASHRAE Research Investors

Speak to Steve Marek on how to become a RP Sponsor.



# September Meeting Event

## ASHRAE bEQ Building Rating Program

### Presentation Summary:

Come to our meeting in September to learn more about the new building energy rating program!

This presentation charts the development of ASHRAE's Building Energy Quotient labeling program for commercial buildings and describes its purpose, importance, benefits, and how it differs from other labeling programs, in the context of national and international labeling activities. Characteristics and features of the In Operation and As Designed types of labels are presented. The process for application of each of these types is described, including the criteria evaluated, the rating scale, the certificate, dashboard, and display plaque, as well as the certification requirements for professionals who support each type. A summary of lessons learned in the In Operation pilot program will highlight the rigor associated with the bEQ label.

Building Energy Quotient (bEQ) is a building energy rating program that provides information on a building's energy use. Two separate workbooks, one evaluating As Designed potential and the other assessing In Operation performance, form the foundation of bEQ. bEQ rests on ASHRAE methodologies and standards and the experience of qualified practitioners. These characteristics distinguish bEQ and assure owners that they are receiving reliable and consistent results and recommendations.

### Speaker:

Bruce D. Hunn, is a consultant in building energy analysis and recently retired after nearly 15 years as Director of Technology/Director of Strategic Technical Programs at ASHRAE. He received B.S., M.S., and Ph.D. degrees in Mechanical Engineering from Stanford University in 1964, 1965, and 1972, as well as a B.A. in Engineering from the University of Redlands. He is Chair of ASHRAE TC 7.6 (Building Energy Performance) and is a member of SPC 211 (Standard for Commercial Building Energy Audits). He is past chair of TC 4.7 (Energy Calculations) and past vice-chair of the Research and Technical Committee.



## CTTC Corner

For more information about this column, contact Gene Brown ([gene3380@gmail.com](mailto:gene3380@gmail.com)).

At our May meeting Sujay Turakhia gave an outstanding presentation on the ice-storage system at the Trane facility on Rivers Avenue. The system does not save energy. It saves money by using electricity during off-peak hours when the rates are cheaper (\$.045 vs \$.082 per KWH). There is a demand charge of \$19.77 for the maximum KW load reached during peak hours. It is always advantageous to shift the load to off peak.

Ice storage can save money in two ways. (1) Peak shaving. Ensure that the maximum KW demand at any time during the year is never exceeded. (2) Load shifting: Using as much ice as possible during the hours of peak charge.

In Charleston the emphasis is primarily on peak shaving because the demand rate is significant and the cost of energy is fairly low.

The system can be set so that the chiller provides 44 degree water to the air handling unit. If at any time this is not sufficient, the ice storage will provide additional capacity. The chiller has 20 tons of capacity. With the ice storage, 30 tons can be produced. Most plants have about 1/3 capacity on ice.

Ice tanks are flexible. They may be placed anywhere. One large tank, several small tanks or a partially buried tank are options. They can be stacked 2 or 3 high or on racks.

The tank is filled with coils which carry brine from the chiller. The tank contains water which remains in the tank is transformed to ice around the coils. During times of peak charge for electricity the ice provides cooling to the brine and reduces the power required to cool the building.

All members are encouraged to attend the Chapter Regional Conference in August. This is an excellent opportunity to learn, network and have a good time.

Members are encouraged to take advantage of the ASHRAE certification program. Certifications include: Energy Assessment Professional (BEAP) ; Building Energy Modeling Professional (BEMP); Commissioning Process Management Professional (CPMP); Healthcare Facility Design Professional (HFDP); High-Performance Building Design Professional (HBDP) and Operations & Performance Management Professional (OPMP)

We had some outstanding entries and winners for the Technology Award this past season. Victor Fallon received an award for Phillip Simmons Elementary School and Craig Buck received an award for Richardson Indoor Stadium at Wofford College. All members with an eligible project should submit an entry. Contact me with any questions. [GENE3380@GMAIL.COM](mailto:GENE3380@GMAIL.COM)

Members are encouraged to make presentations to professional groups. Let me know so our chapter can get credit.



## YEA Corner

For more information about this, contact Megan Rooney (Mrooney0813@gmail.com).

To ensure a bright future for ASHRAE and the industry, the Young Engineers in ASHRAE (YEA) Committee was developed to create programs and develop a path for our young professional members. Any current ASHRAE member who is 35 years of age or younger is considered a YEA member, and automatically has a wide variety of programs, events, and opportunities at their fingertips.

Upcoming opportunities:

### YEA Leadership Weekend

Future leaders of ASHRAE learn more about society, develop soft skills and network with other young professionals.

Leadership Weekend Objectives:

- Leadership
- Networking
- Communication
- Professional Development

Fall 2017 – October 13-15<sup>th</sup> Baltimore, MD

Spring 2018 – TBA

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

### Leadership U

FREE TO APPLY

Learn more about society and what ASHRAE officers do by shadowing a society officer at a winter meeting.

You will attend all their events, board meetings, social activities, etc.

Applications due Fri., Sept. 22<sup>nd</sup>, 2017

Winter meeting – January 19-25<sup>th</sup> Chicago, IL

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

### HVAC Design Essentials Training Scholarship

FREE TO APPLY for YEA members

HVAC design essentials training allows attendees to gain the fundamentals and technical aspects to design, install and maintain HVAC systems.

Fall and Spring Scholarships

<https://www.ashrae.org/membership--conferences/yea-scholarship-for-hvac-design-essentials-workshop>

### SmartStart Program

Recently graduated, but not a full ASHRAE member?

SmartStart is a 3-year program that allows student members to transition to associate grade membership at a friendly recent-graduate rate.

First year \$21- Second year \$78- Third year \$103

### ASHRAE Regional LeadRS Program

LeadRS is an ASHRAE regional program that encourages the development of future regional and society leaders.

Learn more about what regional ASHRAE officers do by shadowing a regional officer at an annual or winter meeting. You will attend all their events, board meetings, social activities, etc.

Contact a board member if you are interested.



## Chapter Officers

**PRESIDENT—Philip Runyon**

Phone: 729-1883  
prunyon@chapman-jhj.com

**VICE PRESIDENT—Jacob Yount**

Phone: 743-0234  
jyount@brph.com

**SECRETARY—Tim Niles**

Phone: 654-1508  
timothy.niles@rmf.com

**TREASURER—Victor Fallon**

Phone: 971-9639  
vfallon19@gmail.com

BOG— Steve Marek, Megan Rooney, Randy Jones

## RP Corner:

Here we go again, another stint as your RP Chairman.

Please come out and enjoy our events this year, I would like to thank Marcus Googer as our first Honor Roll Donor of the year, I will update Honor Roll personnel and corporate in next Month's Newsletter so please get your donations in.

We also have decided to start a Foundation Endowment to recognize a past member and President of the Charleston Chapter of Eric Crawford. Everyone can help with this just select Foundation and write in Eric Crawford in the blank space, please call me with any questions.

I have our Golf Outing set for October 20<sup>th</sup> at Summerville Country Club, flier attached.

Let's have another great RP Year.

Thanks everyone and see you soon,

Steve Marek

RP Chairman Charleston Chapter

## GGAC Corner:

We are looking forward to a new year, with more Grassroots Government Advocacy in the works. One of our goals for this year is to make various contacts with our local legislators. We want them to know who ASHRAE is and what we do for the built environment. If any members have a meeting with a government official, ensure they know you are a member of ASHRAE!

Pete Conroy

GGAC Chair

September	CTTC
October	Membership
November	YEA
December	RP/Oyster Roast
January	Membership
February	GGAC
March	Student Activities
April	History
May	RP
June	Low Country Boil

## Chapter Emphasis Nights



# ASHRAE Learning Institute

## 2017 Online Course Series

### 2 WAYS TO REGISTER

Internet: [www.ashrae.org/onlinecourses](http://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](http://www.ashrae.org/hvactraining) to register and learn how your Chapter can earn PAOE points.

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



# **ASHRAE GOLF**

## **CHARLESTON CHAPTER'S "FALL RESEARCH PROMOTION"**

### **CAPTAIN'S CHOICE GOLF TOURNAMENT**

**FRIDAY, October 20th, 2017  
1:30 PM SHOTGUN START  
SUMMERVILLE COUNTRY CLUB  
400 COUNTRY CLUB BLVD  
SUMMERVILLE, SC 29483**

**\$75.00 includes GOLF, CART, LUNCH TO BE  
SERVED BEFORE GOLF, BEVERAGES, and  
SOME PRIZES!!!!**

**Bring your own team or we can assign you to one.**

**Player:  
Player:  
Player:  
Player:**

r!

**Contact: Steve Marek (843) 534-6264**

**Email this form to [stevemarek.pe@gmail.com](mailto:stevemarek.pe@gmail.com)**

# SPONSORSHIP LEVEL DESCRIPTION

## **GOLD LEVEL**

- Company name will be prominently displayed at ALL Chapter activities, i.e. Chapter Meetings, Golf Outing (as a hole sponsor), Technical Seminars.
- (2) Spots at all Research Promotion activities including the fall and spring golf tournaments
- Special recognition in publications including the *ASHRAE Insights and Monthly acknowledgement in The Charleston "Gee Chee" Chapter Newsletter.*
- Hole Sponsor in the Chapter Research Promotion Golf Tournaments
- Honor Roll Research Donor recognition in Chapter Newsletter (\$ 800 Contribution)
- Sponsor of Engineering Week Activities

## **SILVER LEVEL**

- Hole Sponsor for the Chapter Research Promotion Golf Tournaments
- Honor Roll Research Donor recognition in Chapter Newsletter (\$ 500 Contribution)
- Special recognition in publications including the *ASHRAE Insights and Monthly acknowledgement in The Charleston "Gee Chee" Chapter Newsletter.*
- Sponsor of Engineering Week Activities

## **BRONZE LEVEL**

- Hole Sponsor in the Chapter Research Promotion Golf Tournaments
- Honor Roll Research Donor recognition in Chapter Newsletter (\$ 300 Contribution)
- Special recognition in publications including the *ASHRAE Insights and Monthly acknowledgement in The Charleston "Gee Chee" Chapter Newsletter.*

## **HONOR ROLL LEVEL**

- Honor Roll Research Donor recognition in Chapter Newsletter (\$ 150 Contribution)
- Special recognition in publications including the *ASHRAE Insights and Monthly acknowledgement in The Charleston "Gee Chee" Chapter Newsletter.*
  
- Chapter Meeting sponsors are also available recognition on front page of Chapter Newsletter and recognition at the meeting (ADD \$200)



ASHRAE CHAPTER SPONSORSHIP  
REGION IV

CHARLESTON CHAPTER  
*2016-2017 FISCAL YEAR*

NAME \_\_\_\_\_

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MAILING ADDRESS \_\_\_\_\_

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TELEPHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

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SPONSORSHIP LEVELS:      GOLD              \$1,000 \_\_\_\_\_  
(PLEASE CHECK ONE)

SILVER                      \$ 500 \_\_\_\_\_

BRONZE                     \$ 300 \_\_\_\_\_

HONOR                      \$ 150 \_\_\_\_\_

CHAPTER MEETING SPONSOR      ADD \$200

PLEASE EMAIL COMPLETED FORM TO:  
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