

2017

September

Upcoming Event Excitement!

We have a lot of exciting
events around the corner!

GOLF

Friday, October 20th, 2017



Next Meeting Tuesday, October 10th

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 Corner by Philip Runyon

October's meeting has a focus of Membership Promotion. As I stated in my first presidential corner, membership promotion will be a key topic for our chapter this year. I want to announce to our chapter that we were awarded money from the region's chapter opportunity fund to put toward membership promotion. What we proposed was a year long raffle that all new members and sponsoring existing members will be put into. We allocated \$250 to this raffle so the prizes will be drawn at the June social and it will be monetary prizes (2)\$100 Visa gift cards & (1)\$50 Visa gift card. 3 winners total from our year long raffle. If you think about it that would pay for almost half of your dues! Our goal with this raffle is to bolster our membership and get our existing members to promote our local ASHRAE chapter. Please try to bring as many guests to meetings as possible and let's get some new faces involved in our chapter. The hope is that these new members will be the future leaders of our chapter.

We also have an upcoming golf tournament on October 20th. Please contact Steve Marek and get your team signed up. I know there are some other events going on that day but this is always a fun event so please make plans to join us.

We look forward to another great speaker and very pertinent topic given what all has transpired in the world over the past several months. 2 category 5 hurricanes and 2 major earthquakes so far this year makes the topic of seismic and wind very relevant to our recent history. See you all at the meeting on Tuesday the 10th!

Philip Runyon



Chapter Sponsors

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

Chapman Company

ASHRAE Research Investors

Corporate Donors (\$1,000+)

Chapman Company

Honor Roll Donors (100+)

Marcus Googer

Meagan Rooney

Dennis Knight

Philip Runyon

Jacob Yount

Tim Niles

Randy Jones

Steve Marek

Pete Conroy



October Meeting Event

The Great Seismic Headache

Presentation Summary:

The course is based on the International Building Code 2015 edition and the ASCE 7 standard 2010 edition. The course is designed to raise awareness of the potential risks associated with non-structural failures and the costly consequences associated with those failures. Attendees will be guided down a path to discover why restraint requirements exist, what are the restraint requirements, what happens when restraints are not properly designed and installed, and understand the key roles that each party on the design and installation team play in assuring compliance.

Speaker:

Joel A. Davis, Sr., PE

CEO – Synergy Engineering



Mr. Davis is a founding partner in Synergy Engineering, and has been a driving force in the industry, working diligently to re-shape the concept of seismic restraint for non-structural components through marketing and education.

Mr. Davis has over 25 years of experience in the HVAC business. The early portion of that experience included various roles on the contractor side. Eight years were spent learning the trade working as a helper, mechanic, foreman, superintendent, estimator, assistant project manager, and project manager.

Mr. Davis worked as a manufacturer's representative serving North & South Carolina, Georgia and Eastern Tennessee. His experience includes roles as a Product Specialist, Territory Manager, and Vice President helping guide the industries approach to the seismic restraint of mechanical, electrical, and plumbing systems during the transition from the 1999 SBC to its current edition of the IBC 2015.

Mr. Davis is an active member of the Southern Piedmont Chapter of ASHRAE. He is a past president of the Southern Piedmont Chapter of ASHRAE and also the Pinnacle award recipient for the 2002-2003 campaign years. He is a licensed professional engineer in the states of North Carolina, South Carolina, Alabama, Missouri, and Florida.



CTTC Corner

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

There are individuals who are trying to gut the building codes of requirements for proper construction and energy conservation. Randy Jones and Dennis Knight have been combating this in Columbia by providing their input on senate bill 579.

Steve Marek gave us an update on Technical Committee 7.3, Operation and Maintenance Management. Presentations can be downloaded from the website. Any ASHRAE member can be a corresponding member of a TC.

Bruce Hunn, PHD, DL, gave an outstanding presentation on Building Energy Quotient, bEQ, at our September meeting. bEQ gives a numerical rating to a comparison of a specific building to a range of typical buildings. Other systems of rating include LEED and Energy Star. All over the world there are different ways of scoring buildings. bEQ compliments these.

Do not compromise indoor air quality (IAQ) to improve energy performance.

bEQ provides recommendations for improving score and provides means for pushing buildings into high-performance category. bEQ is based solely on energy, not recycling. It provides a consistent rating system for existing and new buildings.

The Energy Star system scores from 0 to 100. Designation for an energy star rating requires a score above 75. bEQ pushes energy performance higher than the Energy Star system. It pushes toward net-zero.

One bEQ rating is "as-designed". This is based on modeling assuming standard occupancy using an 8760-hour program. The program compares the specific building to all other buildings of its type.

The other rating is "in-operation" and considers metered energy consumption.

The rating scale is zero-based (zero net energy). The score can go below zero (energy-producing). A score of 100 is the median. Higher than 100 is worse than the median. The comparison is made against similar buildings, not against a building with no windows, etc. The "average" building is calculated based on construction in the year 2000.

The score based on energy use (EU) is:

$$\frac{[(EU \text{ simulated}) / (EU \text{ baseline})] \times 100}{}$$

The scoring system compares buildings of the same use and with the same location and climate so that a building is not penalized for construction in a severe climate or for a use which would obviously consume more energy.

Energy saving opportunity follows ASHRAE level 1 Energy Audit procedure.

Submission for bEQ certification requires an ASHRAE certified professional or a PE in the area of jurisdiction.

The bEQ web portal provides a streamlined way to submit information.

A bEQ score is available at no cost. The audit report and data sheets cannot be printed out without payment of a fee.

An expansion of the program is underway. Institutions will be able to obtain an EQ for the whole campus. Cities will be able to obtain an EQ for the combined area of government buildings.

Dennis Knight is a certified Building Energy Modeling Professional (BEMP) and is qualified to submit the information for bEQ certification.



RP Corner:

We are off to a great start, Full Circle by our officers and others see the newsletter to see who is donating.

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 a link set up on the website; our Goal over the next three years is \$3000 to fully fund this endowment. All donations are tax deductible in the donor's name.

I have our Golf Outing set for October 20th, yes October 20th, we will eat from 1pm to 2pm with a Shotgun start at 2pm at Summerville Country Club, and the flier is on the website as well as registration and RP donations.

Another great RP Year in Charleston.

Thanks everyone and see you soon,

Steve Marek

RP Chairman Charleston Chapter

GGAC Corner:

October 5th is Energy Efficient Day, and ASHRAE is an Organizational Participant!

WHAT IS ENERGY EFFICIENCY DAY?

Energy Efficiency Day (October 5) is a collaborative effort between regional and national organizations, business, utilities, and individuals working to promote energy efficiency: the cheapest, quickest way to meet our energy needs, cut consumer bills and reduce pollution.

WHAT CAN I DO?

Take the Light Bulb Challenge. Here's an easy way to make a BIG difference: did you know that something as simple as changing one incandescent light bulb in your home for an LED bulb could add up to real savings? Learn more and start your journey into efficiency! Follow the link below:

<http://energyefficiencyday.us15.list-manage.com/track/click?u=dcdabd44082653d51ff6b91a8&id=0e47d32e4e&e=0261631bde>

Pete Conroy

GGAC Chair

2017-2018 Events



Chapter Officers

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BOG— Steve Marek, Megan
Rooney, Randy Jones

October 10th, 2017 **Meeting** @ Harbor Breeze— [Seismic / Wind Code Related Issues](#)

October 20th, 2017 **Fall 2017 Golf Outing** @ Summerville Country Club, 1:00 PM

November 14th, 2017 **Meeting** @ Harbor Breeze— [Filtration and Air Cleaning in Sustaining Acceptable IAQ](#)

December 12th, 2017 **Annual Winter Oyster Roast Social** @ Goldbug Island, 6:00 PM

January 9th, 2018 **Meeting** @ Harbor Breeze— [TBD](#)

February 13th, 2018 **Meeting** @ Harbor Breeze— [Roundtable Discussion \(Codes, Coordination, etc.\)](#)

March 13th, 2018 **Lunch Meeting** @ Harbor Breeze— [Passion and Performance](#)

April 10th, 2018 **Meeting** @ Harbor Breeze— [TBD](#)

May 8th, 2018 **Meeting** @ Harbor Breeze— [TBD](#)

June 12th, 2018 **Summer Low Country Boil Social** @ Harbor Breeze @ TBD





ASHRAE GOLF

CHARLESTON CHAPTER'S "FALL RESEARCH PROMOTION"

CAPTAIN'S CHOICE GOLF TOURNAMENT

FRIDAY, October 20th, 2017

**Food from 1:00 to 2:00 PM
2PM 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:**

Contact: Steve Marek (843) 534-6264

Email this form to 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 (\$ 250 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 _____

COMPANY/ORGANIZATION _____

MAILING ADDRESS _____

TELEPHONE: _____ FAX: _____

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SPONSORSHIP LEVELS: GOLD \$1,000 _____

(PLEASE CHECK ONE)

SILVER \$ 500 _____

BRONZE \$ 300 _____

HONOR \$ 250 _____

CHAPTER MEETING SPONSOR ADD \$200

PLEASE EMAIL COMPLETED FORM TO:
Steve Marek @ stevemarek.pe@gmail.com