

2017

April



Upcoming Event Excitement!

We have a lot of exciting events around the corner!

ASHRAE Golf Tournament—Friday, April 14th

Ice Storage Refrigeration Tour/May Meeting—Thursday, May 4th

Sustainability Project/Habitat for Humanity Build—Friday, May 26th

See flyers at the end of the newsletter for details! Stay tuned on our website for more fun events coming our way.



Click the logo above to go to our website



Next Meeting Tuesday, April 11th

Harbor Breeze at Patriots Point, Mt. Pleasant

BOG Meeting 5:00-5:30

Happy Half Hour 5:30-6:00

Dinner and Chapter Meeting 6:00-6:30

Technical Program 6:30-7:30

\$25/person +\$5 open bar

[REGISTER ONLINE](#)

April Meeting Technical Presentation

The Four Decisions: People, Execution, Cash and Strategy

Guest Speaker - Billie Attaway

Presentation Summary: Billie is business coach, forum facilitator, and speaker. He teaches companies what they need to know to grow quickly, profitability, and sell at a premium. He talks from experience not theory which is a huge differentiator from other coaches and consultants.

In addition, Billie is a successful recovering serial Entrepreneur with many successful start-ups and exits, with one of those exits to a publicly traded company. These businesses grew so quickly they earned him a spot on the Inc. 500 not once, but twice! He has also been recognized as Entrepreneur of the Year.

Billie is a life time learner earning an honorary PhD from Charleston Southern University. He has attended Entrepreneurial Executive Programs at MIT, Stanford, Queens College and couples extensive training and education with deep practical knowledge on how to achieve hyper growth.

He serves on the Board of Visitors to Charleston Southern University, a Mentor to the College of Charleston MBA program, and a strategic facilitator to the Citadel-Military College of SC Business School.

Billie will cover the high points of each category giving attendees nuggets they can use in their business.

CHAPTER SPONSORS

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

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FACEBOOK PAGE

Charleston ASHRAE Chapter has a facebook page!



Like our page by clicking the icon above.



CTT Corner - March Meeting

For more information about this column, contact Gene Brown, CTTC.

At our March meeting Randy Jones made a few comments about his work with the Labor, Commerce and Industry committee. He is working with others to influence legislators to require sensible energy conservation and HVAC practices. Many of the builders will try to eliminate all restrictions on construction. April 15 is the crossover deadline. Any bill which passes in the house must be sent to the senate by that date so that the senate will have time to give it adequate consideration.

All members are encouraged to obtain ASHRAE professional certifications. Certifications include: Building Energy Assessment Professional (BEAP); Building Energy Modeling Professional (BEMP); Commissioning Process Management Professional (CPMP) and High-Performance Building Design Professional (HBDP) program.

Rob French gave an outstanding presentation, "Chemical Free Water Treatment for Evaporative Cooling Applications". Scale, bacteria and corrosion can be controlled without chemicals. There is a time and place for the use of chemicals. Chemicals help passivate galvanized steel when the PH is greater than 8.0. A sweeper system can be used in the bottom of a cooling tower. The sweeper consists of a pipe with numerous nozzles on one side to provide a sweeping current across the surface. A conductivity controller can activate the blowdown. There are many advantages in using the non-chemical-device (NCD). The chemical free system has a fast payback. One 3000 ton system had a sewer fee of \$280,000 per year. Without chemical treatment the water could be used for irrigation. With non-chemical system the concentration may be increased until the contaminants fall out as a powder instead of scaling the equipment. The powder goes out with the blowdown. Cavitation treats bacteria as well as scaling. Biofilm is a problem which promotes legionella and corrosion. Biofilm is a food source for legionella. Coupons (sample metal strips) can be used to test for corrosion rate. For unusually corrosive water it is necessary to use some chemicals. Localized corrosion is a problem. General corrosion, a uniform rusting of the entire system is not the cause of leaks or other problems. For splash zones it is not possible to control algae with chemical or with non-chemical systems. The splashing of water onto other surfaces must be eliminated. A sample with less than 10,000 colony forming units of legionella per milliliter is acceptable. Amoeba will eat legionella but the legionella reproduce explosively inside of the amoeba and the problem will be exacerbated. Companies which specialize only in legionella may find it whether it is there or not. It may be better to us a company which provides a more diverse variety of services. An electromagnetic field in the water controls scaling. The technology has passed ASHRAE tests. Approximately 5% of the market is non-chemical based. The state of California pays 50% of the installation cost because so much water is saved. California law requires 6 cycles of concentration unless an alternate water source is used. Six cycles of concentration can only be achieved with chemical free systems. Eighty percent of the time a corrosion inhibitor is recommended.



Chapter Officers

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BOG— Steve Marek, Ron Runyon, Randy Jones

GGAC Update

GGAC Update 04/03/2017

We are actively monitoring the advancement of SC Senate Bill 579, which will change the building codes statute in the state of South Carolina. Randy Jones and Dennis Knight have been working with statewide trade groups and ASHRAE Leadership to get the word to our state representatives that ASHRAE is OPPOSED to this bill. IF you are interested in additional details, or wish to communicate ASHRAE's opposition to your local politicians, please contact Randy, Dennis or me.

Pete Conroy

GGAC Co-Chair

Presidential Corner

Thank you everyone for accommodating our flub at last months lunch meeting. Harbor Breeze was wonderful in accommodating us at the last moment, even though lunch was a little late! Rob French gave a marvelous presentation.

Interested in becoming a future leader in the Charleston Chapter or know someone that fits that description? Please contact a BOG member to express interest. We are currently looking for nominations for positions for the 2017-2018 ASHRAE year.

Looking for some Good Golf on Good Friday? Look no further! Want to give back to your community? We have the event for you. Like refrigeration and beer? So do we! We have LOTS of activities coming up to finish out our year. Please see flyers at the end of the newsletter for dates and details.

Looking forward to seeing everyone at the April Meeting!

Megan Rooney

Chapter President

April—Tuesday 4/11

May—Thursday 5/4

The Four Decisions: People, Execution, Cash and Strategy

Ice Storage Refrigeration Tour—See flyer for Details

Chapter Meetings





ASHRAE GOLF

**CHARLESTON CHAPTER'S
"SPRING RESEARCH PROMOTION"
CAPTAIN'S CHOICE GOLF TOURNAMENT**

FRIDAY, APRIL 14TH, 2017

1:00 PM SHOTGUN START

SUMMERVILLE COUNTRY CLUB

400 COUNTRY CLUB BLVD

SUMMERVILLE, SC 29483

\$75.00 includes GOLF, CART, FOOD, BEVERAGES, and PRIZES!!!!

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

Player:

Handicap :

Player:

Handicap :

Player:

Handicap :

Player:

Handicap :

If you do not list your handicap you will be listed as a Scratch Golfer!

Contact: Sujay Turakhia at (843) 693-0978

Email this form to sujay.turakhia@trane.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

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SPONSORSHIP LEVELS: GOLD \$1,000 _____
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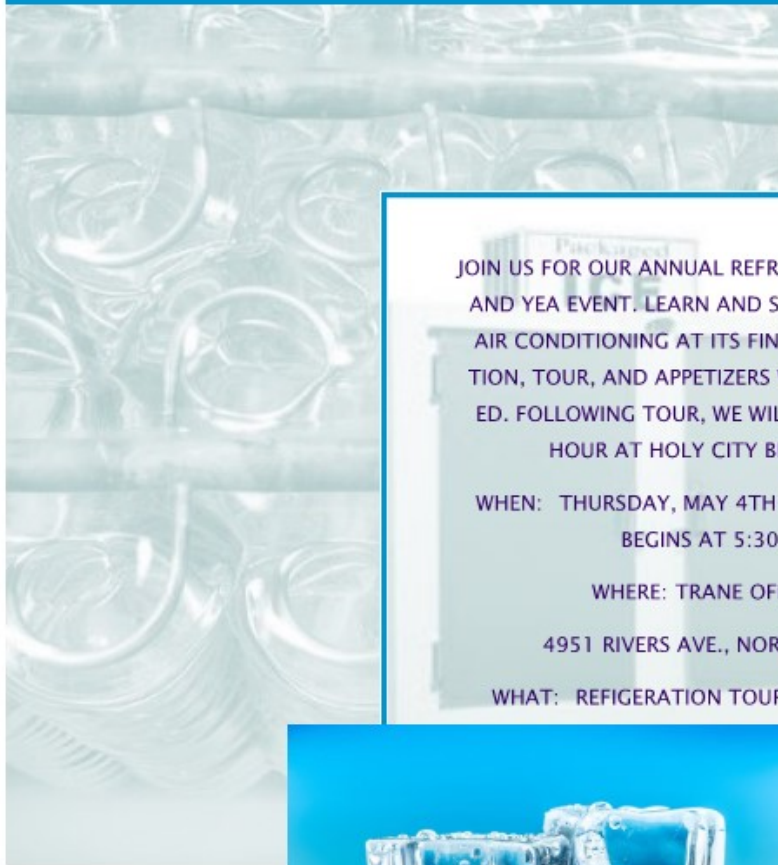
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CHAPTER MEETING SPONSOR ADD \$200

PLEASE EMAIL COMPLETED FORM TO:
Sujay Turakhia @ sujay.turakhia@trane.com



REFRIGERATION TOUR



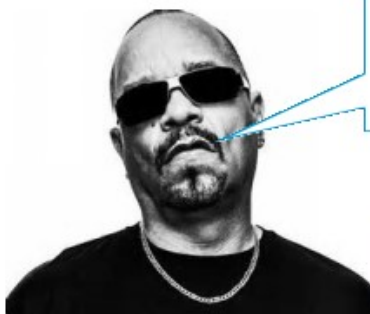
JOIN US FOR OUR ANNUAL REFRIGERATION TOUR AND YEA EVENT. LEARN AND SEE ICE STORAGE AIR CONDITIONING AT ITS FINEST. PRESENTATION, TOUR, AND APPETIZERS WILL BE PROVIDED. FOLLOWING TOUR, WE WILL ENJOY HAPPY HOUR AT HOLY CITY BREWERY.

WHEN: THURSDAY, MAY 4TH PRESENTATION BEGINS AT 5:30P

WHERE: TRANE OFFICE

4951 RIVERS AVE., NORTH CHARLESTON

WHAT: REFRIGERATION TOUR AND DRINKS



RAPPER ICE-T SAYS:
LIKE US ON
FACEBOOK!



QUESTIONS? E-MAIL:
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SUJAY TURAKHIA
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Spring Sustainability Activity

Volunteer with us for another successful
Charleston Habitat for Humanity Build!

Where: Publix Super Market Charities 2017 House

5357 Seawatch Lane

North Charleston, SC 29406

Time: 8:30a to noon

Date: Friday, May 26th

RSVP: Online!

www.charlestonashraechapter.wildapricot.org

Note: Before you arrive at the worksite, please download and complete the volunteer waiver.

