



Upcoming Event Excitement!

We have a lot of exciting events around the corner!

Friday, April 14th

ASHRAE Golf
Tournament

Thursday, May 4th

ASHRAE Refrigeration
Event —Ice Storage and
Brewery Tours

Friday, May 19th

ASHRAE Sustainability
Tour

See flyers and website for
more information.

Next Meeting Tuesday, March 14th

Harbor Breeze at Patriots Point, Mt. Pleasant

BOG Meeting 11:30-12:00

Lunch and Chapter Meeting 12:00-1:00

\$25/person

[REGISTER ONLINE](#)

ASHRAE.org Update

ASHRAE YOUTUBE CHANNEL

Have you seen the latest ASHRAE video? ASHRAE's YouTube channel is your source for exclusive ASHRAE video content, including a new #myashrae video, which shows members from across the world. Watch, share, and subscribe today!



WHAT GRINDS YOUR GEARS?

ASHRAE Government Affairs wants to know and asks ASHRAE members to please share a few words about issues you care about. Tell us what government affairs/public policy issues you are interested and/or would like to be involved in or any pressing issues you feel ASHRAE should be involved in.



ANNUAL SUMMER ASHRAE MEETING

Located in the heart of Southern California, Long Beach is the perfect sunny destination for the 2017 Annual Conference, June 24th – 28th. The Long Beach Convention and Entertainment Center, as well as the Hyatt Regency Long Beach and other host hotels are a brief walk apart amidst a beautiful backdrop of palm trees and blue skies. Attendees will enjoy technical sessions which address Net Zero Energy Buildings, Commissioning, Residential Buildings, Building Life Safety Systems, and more. Register before May 1st for the best rates .

ASHRAE 2017 Annual Conference

June 24-28, 2017

Long Beach, CA



CHAPTER SPONSORS

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

Chapman Company
Cullum Constructors, Inc.
Palmetto Air and Water Balance
James M. Pleasants Inc.
Heat Transfer Sales
BRPH
Johnson Controls
Raypak
MSS Controls Solutions
RMP Engineering
Carotek
Triad Mechanical Contractors
DWG Consulting Engineers

FACEBOOK PAGE

Charleston ASHRAE Chapter has a facebook page!



Like our page by clicking the icon above.



CTT Corner

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

All members are encouraged to submit entries for chapter technology award. Please submit before April 15. Contact me at gene3380@gmail.com if you have any questions.

At our February meeting Joe Fisher gave us an update on his involvement with Standard 62.1, Ventilation for Acceptable Indoor Air Quality. Investigation is being done on CO₂ as a contaminant of concern. Mariah Schwartz gave an update on ASHRAE Guideline 34P, Energy Guideline for Historical Buildings. A draft will be released for public review. Everyone is encouraged to take look.

Randy Jones will meet with SC legislators to encourage better regulations regarding construction and energy efficiency. Teams of 1 or 2 will meet with each legislator. Many lobbyists and home-builders are against all restrictions.

Henry Slack gave an outstanding presentation: "Fixing the Green Indoors: HVAC/Indoor Air Quality". If you are comfortable, you are productive. A lot of valuable information can be found at: www.epa.gov/iaq and www.epa.gov/mold. Henry may be contacted at slack.henry@epa.gov. His phone number is (404) 562-9143. Inspection of equipment works better than testing of air. Contaminants are sometimes difficult to detect but often faulty equipment is easier to observe. Since the 50's contaminants have emanated from carpets, wallboard, particleboard, computers, printers, copiers, cleaning fluids and pesticides. Open windows are rare. Radon is the second leading cause of lung cancer in the US. Smoking plus radon cause an increased danger. Concrete placed in one pour is effective in reducing radon. If there is no ventilation, there can still be a problem. The concrete can contain uranium which decays to radium which decays to radon. Don't allow smoking around children. Carbon monoxide causes dizziness, nausea, headaches and confusion. Sometimes CO can kill in minutes. Some modern automobiles are very quiet. One automobile was left running in the garage and the owners were killed by the CO. VOC's can cause headaches and respiratory problems. Biological contaminants include cat dander and roach droppings. Aspergillus mold can infect the lungs. Legionella originates not just in cooling towers but also in domestic hot water lines which are not used enough. The bacteria grow at 70-110 F. New guidance from ASHRAE and AHIA can prevent this. There are no regulations on mold or cleanup. If there is a mold problem there is a moisture problem. Sampling gives a snapshot, not a continuous history of conditions in the building. A person with experience is required to properly interpret samples. Things not included in this presentation are lead-based paint, asbestos and sewer gasses. If someone puts a carpet over a floor drain the trap will dry out and sewer gas becomes a contaminant. Outside air affects IAQ. The OA intake may be located at the loading dock because the architect does not want it anywhere else. A fanbelt starting to slip can cause problems. Inspection tools include moisture meters, RH meters and thermometers. Use low emitting materials and seal ductwork. Trap dirt at door (walk-on mats). Use HEPA vacuum cleaner. Wipe, don't spray with bleach. Don't use bleach routinely. Discard muddy porous items. Be sure exhausts from each piece of equipment are working.



February Meeting Technical Presentation

Chemical Free Water Treatment for Evaporative Cooling Applications

Guest Speaker - Rob French, Flow Tech HVAC

Chapter Officers

PRESIDENT—Megan Rooney

Phone: 849-1141
mrooney@dwginc.com

VICE PRESIDENT—Philip Runyon

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

SECRETARY—Jacob Yount

Phone: 743-0234
jyount@brph.com

TREASURER—Victor Fallon

Phone: 971-9639
vfallon19@gmail.com

BOG— Steve Marek, Ron Runyon, Randy Jones

Attention all future leaders- Request for candidates!

Please see the attached announcement at the end of the flyer regarding the upcoming ASHRAE Leadership Academy, to be held on Saturday, April 8th. This will be great for new upcoming leaders that can prepare them carry forward into more prominent leadership roles in the future. Contact any of the chapter officers if you are interested in being nominated.

Goals of the Academy

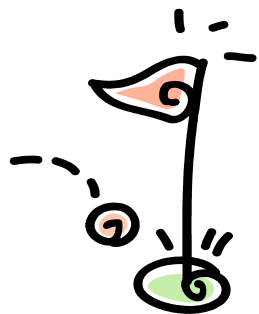
- o Energize chapters and bring them together
- o Discuss what it means to be a leader in ASHRAE
- o Share best practices at the Chapter level
- o Learn from seasoned leadership

September— Tuesday 9/8
 October—Tuesday 10/13
 November—Tuesday 11/10
 December—Tuesday 12/8
 January—Tuesday 1/10
 February—Tuesday 2/9
 March—Tuesday 3/8
 April—Tuesday 4/12
 May—Tuesday 5/10
 June—Tuesday 6/14

Membership
 YEA!
 Donor Recognition
 Annual Oyster Roast
 Research Promotion
 History Appreciation
 CTTC
 Student Activities
 GGAC
 Annual Summer Social and Induction of Officers

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

NAME _____

COMPANY/ORGANIZATION _____

MAILING ADDRESS _____

TELEPHONE: _____ FAX: _____

EMAIL: _____

SPONSORSHIP LEVELS: GOLD \$1,000 _____

(PLEASE CHECK ONE)

SILVER \$ 500 _____

BRONZE \$ 300 _____

HONOR \$ 150 _____

CHAPTER MEETING SPONSOR ADD \$200

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