

JANUARY
2013 EDITION



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“THE GEE CHEE”

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THE OFFICIAL PUBLICATION OF THE REGION 4 CHARLESTON CHAPTER 113
AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS, INC.



MEETING SCHEDULE
TUESDAY JANUARY 8, 2013

**LOCATION: HARBOR BREEZE
MT. PLEASANT**

B.O.G MEETING: 5:00-5:30PM

“HAPPY HALF HOUR”: 5:30-6:00PM

TECH PROGRAM: 7:00-8:00PM

8:01.....SEE YOU NEXT MONTH!

COST: \$25 / PERSON + \$5 OPEN BAR

THIS MONTH'S PRESENTATION BY:
RICK ALEXANDER
JOHNSON CONTROLS

RICK WILL DISCUSS THE HISTORY AND MEANING OF FORCE PROTECTION. HE WILL INCLUDE WORKPLACE VIOLENCE, AND DATA SHOWING WHERE THE GREATEST RISKS EXIST TODAY.

This Month's Articles:

- President's Message
- Chapter Sponsors – Thank You
- Monthly Topic and Speaker
- CTT Corner
- Member News
- Sponsorships and Investors
- The Wall of Honor/Research Promotion
- ASHRAE Chapter Meetings

President’s Message

Happy New Year!

I hope everyone had a good time at our year-end Oyster Roast celebration at Cullum Constructors. We had a great showing of members and the roast was a tremendous success, thanks to the coordination and efforts Charles Hipp, and Chris and Rudy Cullum. It was a fun way to wrap up a busy year.

Our speaker this month will be Richard Alexander of Johnson Controls. He will be addressing the subject of Force Protection (FP), a term that describes preventative measures that can be taken in the face of hostile actions against specific places or groups of people. Rick will focus on how FP applies to the general civilian or business population. His information will be timely in light of the recent tragic events in Connecticut.

Mike Cladakis
Chapter President

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Monthly Topic and Speaker

This month's topic:
FORCE PROTECTION

Join us this month to hear Mr. Rick Alexander speak to us about Force Protection, its meaning, and how it applies to civilian and business population.

Mr. Alexander has 27 years of National and International Security and Life Safety Experience gained in positions of increasing leadership responsibility across North America. He is a second generation security professional, following in his father's footsteps of security leadership as an expatriate with US Steel, Creole, and ESSO in various countries.

Mr. Alexander's broad security career has included leadership assignments with four Security and Life Safety organizations: Johnson Controls, National Guardian Corp, North American Video Systems and Westec Security. He has been directly accountable for operations across the United States, Canada, Mexico, and Latin America in roles including Vice President- North America, Vice President of National Accounts, Regional General Manger, Southern US., Regional Manager- Central US., and Branch Manager.

. He is currently Johnson Controls Branch Manager for South Carolina and Southeast Georgia, and holds full accountability for all Security, Fire Alarm, and Life Safety Integrated System, projects and services.

Mr. Alexander also serves as Vice Chairman of the American Society for Industrial Security, (ASIS), Charleston, Chapter 181.

He graduated in 1985 with a Bachelors of Science degree in Business, from the University of North Carolina – Greensboro.

Member News – Philip Runyon

For all current members, please remember to go online and update your profile with any new awards, recognitions, licenses, work experience, etc. If you are currently an Associate member and have either a PE license or more than 10 years experience in the industry then please let me know and I can get your status upgraded to a full member. These are 2 qualifications that would move you in to full member status.

Also please remember to renew your dues online at www.ashrae.org as close to your renewal date as possible.

Philip Runyon 843-729-1883
prunyon@chapman-jhj.com

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CTT CORNER – GENE BROWN

At our November meeting we had an excellent presentation by Richard Bennett of Risk Tech. He spoke on IAQ remediation in several hospitals after hurricane Katrina. Mr. Bennett is a certified industrial hygienist (CIH). He worked on the mold problem in the SC governor's mansion.

LEED certification is becoming more widely required. (Leadership in Energy and Environmental Design). There are three steps: registration; tracking of progress and application for certification.

Indoor air has 10 to 100 times the amount of pollutants as outdoor air. As a result, work days are lost. There is more data on this in Europe than in the US.

For LEED certification there are 15 points available in 15 categories.

After 2013 hospitals will require positive pressure of the total envelope.

Half of 24 hospitals which were tested were operating with negative pressure.

Hospitals add exhaust hoods, laundry rooms, and various areas that exhaust air.

Negative pressures result.

Construction dust was sucked into air handlers. The dust is rich in cellulose which is a nutrient for fungi.

For LEED certification the IH selects low VOC (volatile organic compound) and zero formaldehyde products.

Dilution is not the solution.

Before occupancy the building can be baked out. Supply air at 120° F is provided until no contaminants are detected in the air. Furnishings have to be in place before the air is tested. Pressed board furniture has formaldehyde. Air samples are collected at 3' and 6'. This is the breathing zone.

The federal government mandated 68° heating and 78° cooling. The buildings were tightened up to save energy. Sick building syndrome developed. Before 1974 energy was so cheap that often there was 100% OA which was cooled and then reheated.

Sheetrock dust can hit cooling coils and set up like concrete.

There are more outpatients today. Inpatients are the most acutely ill and vulnerable to infection.

Hospital-acquired infection may become a larger legal issue than tobacco & asbestos combined.

Approximately 60,000 species of fungi are known. This is probably 10% of the number we have on the planet. A comparison can be made of the predominant species in the building air vs the predominant species outdoors. One species may indicate intermittent moisture (rain leak) and another may indicate continuous moisture (plumbing leak).

As an example of sick building syndrome: at Summerville city hall, the employees had symptoms at work and got better when they went home.

A contractor did not properly contain construction in one part of a hospital. A hospital-acquired infection resulted in a \$30,000,000 judgement. One hundred thousand people each year die of hospital-acquired infection.

Randy Jones told us about a doctor hurrying to get an 86 year old patient out of the hospital because he was in more danger of infection in the hospital than at home.

There are 20,000 legionella deaths each year. Most of these are from potable water, not from cooling towers.

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RESEARCH PROMOTION – STEVE MAREK

HAPPY NEW YEAR everyone.

I still have raffle tickets available, bring \$10 to the meeting please, I have TWO MASTERS (yes golf) tickets to the Monday Practice round. I am selling 100 tickets for \$10 each for a drawing for TWO MASTERS tickets. I am going to donate this to our Research Promotion Campaign.

Just an update on the Research Front, we are doing great. Check out the Sponsor lists and support the people who donate to ASHRAE Research and keep the Charleston Chapter at the forefront of Research. We now have SIXTEEN individual Honor Roll Donors, thank you so much for your contributions; I hope to put many more names on that list.

Right now we are over ~\$11,500 of our \$15,000 goal, well ahead of schedule, but I would like to end this Campaign ASAP so if you have the intention of donating please do so soon.

I am still setting up the Spring Golf Outing, should have details shortly.

Please make an individual or corporate honor roll donation or more if you can and send us to a new high.

Steve Marek
Research Promotion Chairman

The Wall of Honor (2012-2013)

Individual Donations of \$100.00 or More

'12-'13 HONOR ROLL DONORS

**Dennis Knight
Ron Runyon
Del Laquiere
Randy Jones
Steve Marek
David Tomayko
Dick Trent
Eric Crawford
Brian Keiser
Clarence Ham
Michael Cladakis
Chris Constantine
Ronnie Hackett
Al Hitchcock
Emad Afifi
Austin Jones**

Can we put yours on here as well?

Much of ASHRAE Research funding comes in through individual donations,
so, please give.

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CORPORATE/HONOR ROLL INVESTORS 2012-2013:

Platinum Level Donors: (\$800+)

Chapman Company
Triad Mechanical Contractors
James M. Pleasants
Thermal Resource Sales
Trane
SC Public Service Authority - Santee Cooper

Gold Level Donors: (\$500)

Hoffman and Hoffman

Silver Level Donors: (\$300)

Johnson Controls, Inc.
C R Hipp Construction Inc
Charleston ASHRAE Chapter
Epting Distributors
Whole Building Systems

Bronze Level Donors: (\$150)

Sponsorships and Investors

2012-2013 ASHRAE Research Investors

Please consider investing in THE organization of our industry.

Contact Steve Marek at:

(843) 534-6264

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ASHRAE CHAPTER MEETINGS

January

1/15/13

Mr. Rick Alexander, JCI
Force Protection
CTT Night

February

2/12/13

Technical Submission Presentations Membership Night

March

3/12/13 – (LUNCH MEETING)

Distinguished Lecturer
Mr. Dennis Knight, P.E. – Whole Building Systems

April

4/9/13

Distinguished Lecturer – Mr. Wei Sun, P.E.
Engsysco, Inc
Cleanrooms and HVAC Systems Design Fundamentals
History Night

May

5/14/13

Mr. Charles E. Gullledge, III, P.E.
Integrated Building Design
Student Activities Night

June

6/11/13

Chapter Annual Social

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GET INVOLVED

CONTACT ONE OF OUR COMMITTEE CHAIRS TO SEE HOW YOU CAN MAKE A DIFFERENCE

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