

OCTOBER  
2011 EDITION



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# “THE GEE CHEE”

**CHARTERED APRIL 14, 1971**

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



## **MEETING SCHEDULE**

**TUESDAY NOVEMBER 13, 2012**

**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:**

***RICHARD BENNET***

***PRESIDENT***

***RISK TECH, LLC***

***RICHARD WILL SPEAK ON INDOOR AIR  
QUALITY REMEDIATION AT SEVERAL NEW  
ORLEANS AREA HOSPITALS AFTER  
HURRICANE KATRINA***

**This Month's Articles:**

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

**President’s Message**

ASHRAE Members and Guests,

Greetings! And welcome to another great month with the Charleston ASHRAE Chapter.

I want to thank everyone who came out to support the Charleston Builders and Design Social that was held in October. Our chapter worked with six area groups to put on a joint social aimed at building awareness of related industries and creating opportunities to network with some new folks. Chris Constantine did a great job organizing the event for our chapter. Thanks for the hard work!

Join us this month to hear Mr. Richard Bennett speak to us about indoor air quality remediation at several New Orleans area hospitals in the aftermath of Hurricane Katrina. His topic is particularly relevant following the recent destruction of Hurricane Sandy.

As always, if you have any ideas that you think could benefit our chapter, please contact myself, or one of the Board members. We are always looking for ways to better serve our members.

See you all on Tuesday.

Thanks,

Mike Cladakis  
Chapter President

## **“ The Gee Chee”**

### **Monthly Topic and Speaker**

This month's topic:

PRESENTED BY RICHARD BENNETT, MSPH, CIH

**Join us this month to hear Mr. Richard Bennett speak to us about indoor air quality remediation at several hospitals in the aftermath of Hurricane Katrina. His topic is particularly relevant following the recent destruction of Hurricane Sandy.**

Mr. Bennett is the Principal, Chief Science Officer of Risk Tech LLC. He holds a BS in Microbiology from Clemson University, as well as an MSPH in Environmental Health Sciences from the University of South Carolina's School of Public Health.

He is certified in the “Comprehensive Practice of Industrial Hygiene” by the American Board of Industrial Hygiene.

Mr. Bennett's Specialties include Industrial Hygiene, Environmental Infection Control, Industrial Hygiene Chemistry, Asbestos Abatement, Lead Abatement, Indoor Air Quality, Toxicology, and Bioaerosol Technology

### **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](http://www.ashrae.org) as close to your renewal date as possible.

Philip Runyon 843-729-1883  
[prunyon@chapman-jhj.com](mailto:prunyon@chapman-jhj.com)

## **“ The Gee Chee”**

### **CTT CORNER – GENE BROWN**

At our September meeting Rob Turner spoke regarding the Technology Award program. His project for High Purity Standards Laboratory won the chapter and regional awards and is competing for the Society level award. The project budget was \$1 million. The work the owner originally asked for would have cost \$990,000 for mechanical work alone. The owner accepted Rob’s recommendations which reduced the cost to a fraction of this amount. Rob also included variable speed laboratory exhaust hoods and added controls so that only half of the 10,000-CFM hoods would operate at once. This reduced the tonnage dramatically. The use of hot gas for free reheat reduced the environmental impact. For the first technology award entry the short form is allowable but Rob recommends accomplishing the first entry using the long form. Submission must be done in PDF.

At our September meeting Tim Dugan gave an outstanding presentation on the Design of Transportable Air-Traffic-Control Systems. The systems are installed in 20 ft and 40 ft shipping containers. These systems can be shipped by aircraft. Mr. Duncan’s work has included improving the method of manufacture of fiber-optic cable.

Retrofit is difficult with traditional brick-and-mortar facilities. Power, cooling and expansion all present difficulty.

The transportable facilities are built off-site. The transportable units are very desirable for the military.

With the portable modules it is not necessary for construction to meet requirements which will exist many years in the future.

The portable units are useful for military, disaster recovery, health, oil/gas and government applications.

Each unit includes: lightning protection; doors/walls; power; fire protection and security provision.

An inlet temperature of 95F should not be exceeded. A loss of cooling would be catastrophic.

At higher inlet temperatures, fans in equipment switch on and power use goes up. For these units, DX systems are more efficient than chilled-water systems.

In 70 seconds after total cooling failure, temperature can go to 100 F. It takes 10 seconds for generator to start and 60 seconds for the cooling system to check all sensors.

Even though equipment may operate correctly after a cooling outage, failure often occurs a few months later. These can be used to provide many combinations of single-phase and 3-phase power. The level of redundancy is determined by the customer. The cooling systems are not now on UPS but this is to change soon. Some systems have dual UPS. It is possible to have 2 utilities providing power, each with 2 UPS’s.

Security and threat resistance are a growing trend. Diesel generators are provided but they are not inside of the container. Published data for heat generated by equipment is not accurate.

R-19 insulation is provided for units. In a cold location uninsulated units might be better but it is always possible that the units could be moved to a hot location.

## **“ The Gee Chee”**

### **CTT CORNER – GENE BROWN**

We were fortunate to have two regional vice chairs join us for our September meeting. Peggy Fritz is RVC for student activities and Drayton Stott is RVC for membership. Each of them gave us a lot of valuable information about their respective committees.

### **RESEARCH PROMOTION – STEVE MAREK**

Remember this month’s meeting will be our Donor Recognition meeting for Research Promotion.

I also would like to inform everyone to bring \$10 to the meeting, I was fortunate enough to be chosen in the MASTERS (yes golf) lottery for 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 \$8000 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.

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**

**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**

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

**CAN WE PUT YOUR NAME HERE?**

## **“ The Gee Chee”**

### **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

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

[stevemarek.pe@hotmail.com](mailto:stevemarek.pe@hotmail.com)

**“ The Gee Chee”**

## **ASHRAE CHAPTER MEETINGS**

**November**

**11/13/12**

Distinguished Lecturer – Mr. Richard Bennett, Risk Tech  
Research Promotion

**December**

**12/11/12**

Oyster Roast

**January**

**1/15/13**

Mr. Rob Bierman, Director of Business Development,  
Bowhead Science & Technology  
Force Protection  
CTT Night

**February**

**2/12/13**

Technical Submission Presentations Membership Night

**March**

**3/12/13 – (LUNCH MEETING)**

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



# “ The Gee Chee ”

## GET INVOLVED

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

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#### SAVANNAH SECTION VICE-CHAIR

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#### MYRTLE BEACH SECTION CHAIR

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