

MARCH  
2013 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 MARCH 12, 2013**

**LOCATION: WATER'S EDGE  
MT. PLEASANT**

**THIS IS OUR ANNUAL LUNCH  
MEETING!!**

**LUNCH IS SERVED AT APPX 11:30,  
AND THE PRESENTATION WILL  
START AT 12:00**

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

**THIS MONTH'S PRESENTATION BY:**

***DENNIS KNIGHT, FOUNDER & CEO  
WHOLE BUILDING SYSTEMS, LLC***

**This Month's Articles:**

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

## **“ The Gee Chee”**

### **President's Message**

Greetings Charleston ASHRAE Members,

Welcome back to another month of ASHRAE. This month we will be changing our time and place for our monthly meeting and presentation. We will be meeting at the Water's Edge on Shem Creek for lunch instead of our normal dinner meeting. Lunch will begin being served at 11:30 and the presentation will start at 12:00 and run for approximately 45 minutes. With this change in time and location we are hoping to spark the interest of member and guests that cannot make our normal dinner time meetings, so please pass along the invitation. The presenter this month will be Dennis Knight. Please plan on attending.

Also, coming up we will be starting our nominating process for next year's officers and chairs. If you would like to get involved this is your invitation. If you know somebody that you would like to nominate, please do. As you all know the chapter is run by volunteers and the more we have the stronger our chapter will be.

Please help us out by sending and RSVP to Philip Runyon ([prunyon@chapman-jhj.com](mailto:prunyon@chapman-jhj.com)) or Mike Cladakis ([mike.cladakis@hoffman-hoffman.com](mailto:mike.cladakis@hoffman-hoffman.com)) if you plan on attending this month's meeting. The restaurant would like to get a head count prior to the meeting so that they can make sure that they have enough food for everyone.

See you all on Tuesday March 12<sup>th</sup>!

Sincerely,

Mike Cladakis  
Charleston Chapter President

## “ The Gee Chee”

### Monthly Topic and Speaker

This month's topic:

Dear Colleagues and Friends in ASHRAE,

The following is a brief bio for our March 12th meeting. I would like to keep the topic loose if you don't mind. I'd like to talk just a little about 33 years in ASHRAE in Charleston and the rewards of participation on ASHRAE Technical Committees and the last six years in the DL program, the first year's data on the performance of the East Cooper Habitat for Humanity Net Zero Energy House and then hold a group discussion/Q&A session on roles of technology, behavior and codes on the future of energy consumption and our energy resources. I'll have a few slides and questions to help us promote and provoke the conversation. Bring your thinking caps and your big ideas and lets have some fun!

Thanks,  
Dennis

#### **Bio:**

#### **M. Dennis Knight**

##### **Founder and Chief Executive Officer**

Dennis Knight founded Whole Buildings Systems, LLC, in 2010 after thirty-six years of providing engineering, design and construction related services to the building industry. Prior to starting WBS, Mr. Knight was a Principal and Director of Practice Management for Liollo Architecture in Charleston. He has also owned and managed both a successful engineering firm and a construction company. Mr. Knight's expertise lies in his ability to understand and manage complex design and construction projects from inception to completion. His extensive experience gives him a unique perspective on planning and communication. Mr. Knight's philosophy is to engage fully with specific deliverables and schedules and work with building owners, architectural and design professionals, project managers, construction professionals and building users to prepare the appropriate documentation (Procurement Documents, Drawings and Specifications) to ensure the projects success. This process is employed on all WBS projects whether we are conducting a simple audit or writing complete Owner Project Requirements for the construction of a new building.

Mr. Knight's is a PE, ASHRAE BEAP, LEED Legacy AP and EB O&M specialty, and BPI Building Analyst and Envelope Professional. His in-depth knowledge of whole building design is reflected in his current service to numerous national, state and local entities. He currently serves as the Chair of ASHRAE's 2014 Energy Modeling Conference and as a consultant to the ASHRAE Foundation. For the past six years Mr. Knight has participated on ASHRAE's Steering Committee for BIM (Building Integration Modeling). Mr. Knight holds a Bachelors of Science in Physics from the College of Charleston and is both a registered Professional Engineer and registered Fire Protection Engineer in the State of South Carolina.

# “ The Gee Chee”

## MDK Honors and Awards

- City of Charleston Stewardship Award 2010
- ASHRAE Distinguished Lecturer 2008, 2009, 2010, 2011, 2012, 2013
- ASHRAE Regional Service Award 2009
- USGBC SC Chapter Annual Leadership Award 2008
- AIA Charleston Chapter Special Leadership Award 2008
- ASHRAE Research Promotion “Top Dog” Award 2004 and 2005
- Charleston Joint Engineers Society Engineer of the Year Award, 2002-2003
- Past President Charleston Chapter ASHRAE 1986 and 2000
- Chairman, Construction Board of Adjustments and Appeals, Town of Mt. Pleasant, SC, 1999

## MDK Publications

- National Institute of Building Science, Whole Building Design Guide; HVAC Web Pages, Co-Author; [www.wbdg.org](http://www.wbdg.org)
- ASHRAE Journal Article, May 2006 “Specifications for Integrated Building Design”; Co-Author
- ASHRAE Applications Handbook 2007 Edition – Chapter 57 “Integrated Building Design”; Subcommittee Chair and Co-Author
- ASHRAE Journal Article, September 2008 “Teams Contracts & BIM”; Author
- ASHRAE Journal Article, June 2010 “BIM for Energy Modeling”; Co-Author
- ASHRAE Journal Engineer's Notebook Article, November 2012, "BIM Object Creation; Author
- City of Charleston Sustainability Plan (also known as “The Charleston Green Plan”), Co-Author

## **“ The Gee Chee”**

### **CTT CORNER – GENE BROWN**

Our chapter members have had some excellent technology award winners over the years. In January a plaque was presented to Rob Turner for his project for renovation of High Purity Standards Laboratory. This project received a society level runner-up award for a society level award. Competition for this award is worldwide. All members are encouraged to submit technology award entries. Initial entry must be made for a chapter award. The deadline is April 15.

At our January meeting Rick Alexander, representing the American Society for Industrial Security, gave an extremely interesting presentation.

The term Force Protection (FP) is used in a non-military context. It is applied to business and social settings. Force Protection has become a common term after 911.

Examples of structures used for FP include a castle in Scotland and a pyramid looking structure in Alepo Syria which has been used since 300 BC. After the rebellion in Haiti the population built a fortress and the French never came back. Today the pace of change is greater, our culture is more accepting and ambiguity is everywhere.

In the US there is a murder every 36 minutes and a property crime every 42 seconds. South Carolina averages approximately one murder per day which is not as bad as the national average.

In the US there are 2 million reports of workplace violence per year. Of 4547 workplace deaths, 506 were homicide.

We need to develop a culture of force protection in the workplace just as safety has developed over the last 20 years.

Risk data is available like never before in history.

A site risk assessment should be accomplished listing frequency of homicide, rape and other problems for the particular vicinity. Random acts are rare. There are usually warning signs.

3% of workplace violence is perpetrated by previous employees.

24% by strangers

20% by coworkers

44% by customers and clients.

Talk to your children's teachers and principals to find out what plan is in place for a lockdown drill. Establish a written program in your business. Conduct a site physical security assessment.

In one incident a teacher put all of the children in a closet. The teacher told the gunman the children were in the gym. The teacher was killed but the children were saved.

# **“ The Gee Chee”**

## **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.

#### **Spring RESEARCH PROMOTION fund Drive**

Ya'll we are still looking for teams for The Spring Golf Outing on March 15<sup>th</sup> at Miler Country Club or Summerville Country Club, which ever you prefer. We are all set up for a 1:30 pm Shotgun start for a lot of Golfers so please get your teams in ASAP. We are doing a hamburger and hot dog BBQ after the round. Volunteers are always welcome, let me know what you would like to do.

Guess what, 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 still have SIXTEEN individual Honor Roll Donors, thank you so much for your contributions; have you checked the list to see if your name is on it, it is only \$100 to a great cause. Check out [ashraerp.com](http://ashraerp.com) for links to research projects and more.

Right now we are over ~\$14,200 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. The golf outing should put us over the top, so please sign up for Golf.

## **“ 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  
Constantine Engineering Associates, LLC  
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

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

**“ The Gee Chee”**

## **ASHRAE CHAPTER MEETINGS**

**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



# “ 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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