

**EXTRA!! EXTRA!!**  
Please Note the NEW & approved  
Atrium Meeting Room

**PRESIDENT'S  
CORNER  
PAGE 2**

Next Meeting: **Tuesday  
December 5th, 2006  
Radisson, N. Chas.**

**December 2006**

<http://www.charleston.ashraechapters.org/>

# ASHRAE NEWS

The American Society of Heating, Refrigerating and Air-  
Conditioning Engineers, Inc.  
Charleston "Gee Chee" Chapter Newsletter

## Chapter Meeting

Tuesday, December 5th, 2006

**TRANE OFFICE:**

2011 Clements Ferry Rd, Charleston SC,  
29492

Tech. Program: 6:30 - 7:30 p.m.

Oysters and Party: 7:30 - 9:00 p.m.

Cost: \$25.00 per person



### 2006-2007 MEETING SPONSORS

Triad Mechanical  
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**SUPPORT OUR CHAPTER MEETINGS. BE A SPONSOR.  
SPONSORSHIPS ARE \$150.00. CONTACT LOUIE  
SCHWEERS OR STEVE MAREK IF YOU WOULD LIKE TO  
PARTICIPATE.**



**MEETING SPEAKER**  
**William J. Coad**  
McClure Engineering  
Associates

**Topic: VAV System Design, A Fundamental  
Perspective on Chilled Water Systems, The  
Ethics and Economics of Energy Conservation**

William J. Coad is a principal and immediate past Chairman and CEO of McClure Engineering Associates, a mechanical and electrical consulting engineering firm. He has been with the company for forty years engaged in the design and analysis of all aspects of building systems and as a principal of the company. He is also on the Board of Directors of Mestek Corporation of Pittsburgh and of Exergen Corporation of Boston. He was an affiliate professor of mechanical engineering at Washington University, teaching graduate level course in HVAC systems for 29 years. He was the 2001-2002 Society President of the American Society of Heating, Refrigerating

and Air-Conditioning Engineers. Mr. Coad has authored two books and over one hundred articles and papers on various aspects of building systems and energy engineering. He and his firm have been pioneers in the development of computer programs for building energy analysis, cogeneration systems, well water source heat pumps, one-pipe chilled water systems and variable flow chilled water systems. He has been active in technical, professional, and civic organizations and has received numerous awards for his technical contributions, including ASHRAE's highest award for technical achievement, the F. Paul Anderson Award. We are very lucky to have him speak. He is a distinguished lecturer.

## *The President's Corner*

*September 2005*

### **The President's Corner December 2006**

I hope you all had a great Thanksgiving and took the time to reflect on all that you are thankful for. The Holiday season is upon us once again. This year we are doing something a little different to celebrate. We will be having our normal meeting at a different date and location, Trane's office. This will be a very special meeting and here are a few things to note:

- o Distinguished Lecturer Bill Coad flying down for our presentation
- o We will be having an oyster roast following Coad Presentation
- o Because it is a Christmas Celebration Spouses are invited.

Many thanks go out to our speaker last month, Allen for his enlightening discussion on codes. We had several new faces attend and had plenty of old familiar ones. Also Last month was Membership Promotion Month and we were honored with the presence of Drayton Scott. I also want to thank all of my officers for helping us make Full Circle. If you haven't given we have until December 15<sup>th</sup> to get our donations in the door.

Thank you all for your continued interest and support of ASHRAE. I will see you at Trane's office Tuesday at 6:30.

Bo Nutting  
Charleston Chapter President

### **Charleston Chapter Website has Been Updated**

Check out your Chapter on the ASHRAE Website! Go to ASHRAE Online [www.ashrae.org](http://www.ashrae.org), click on HVAC&R Links in the upper left corner of the ASHRAE Home Page, then under ASHRAE Sites click on Chapters, then click on Charleston Chapter. It's that easy!

### **Student Activities Corner By: Carl McGartlin**

We are currently looking into gaining some corporate sponsors to support the SCAD students in their ASHRAE project work. More information to come soon.

Carl McGartlin

### **CTT CORNER**

Whitney Alcott with the Building Enclosure Council (BEC) encouraged everyone to attend the BEC meetings held normally on the 3rd Thursday of each month. I have attended and the meetings are very informative.

Allen Rhudy gave an outstanding presentation on building codes. He described some of his background and his experience in a broad range of code enforcement is very impressive. The International Building Code was conceived in the 1990's. There were a number of codes across the US. The IMC (mechanical) was the first of the ICC codes. Anyone can submit a change for

consideration up to 18 months after a new edition of a code comes out. SC has a 6 month period to comment on changes for codes effective in the state. The code is enforced differently in different jurisdictions. You can get a state interpretation which will be published and will be effective nationwide. James Island is doing its own code enforcement. The town has formed for the third time and the county is letting this area do its own inspections. Inspectors drive 15,000 to 18,000 miles per month. The code is the bare minimum. Only meeting the code does not result in the highest quality construction. In a flood zone all equipment must be at least 1 foot above flood level.

A thorough inspection often reveals that HVAC returns are too small. The code specifies return size. With a central return there is no way for air to move if the doors are shut. We are in the third worst seismic area in the country. Inspectors should check for proper clearance for access to equipment.

Often there is not provision for adequate outside air. Outdoor air is not usually balanced to result in CFM shown on plans. Any component on a roof of over 3/12 slope must have a platform with a guardrail. The International Code does not reference Life Safety Code (NFPA 101) but does reference sprinkler codes (NFPA 13 . . .). A grease hood must be activated when a heat sensor detects that the stove is in use, or the hood must be activated when the appliance is operated, There is basically no difference in city and county enforcement. The fire departments differ somewhat in enforcement. Special inspectors cannot work for the county but can work for the owner. SC law does not allow alternate to code but allows supplements. ASHRAE 62 will become a supplement.

Gene Brown

### **ASHRAE RESOURCE PROMOTION**

#### **DONOR RECGONITION NIGHT**

If I did not talk to you on the Phone and personally invite you to the meeting, then please do come out and let everyone thank you for your generous contributions to ASHRAE and your major part in keeping the Charleston Chapter one of the finest Chapter's in all of Society. I know ya'll have already received your coins, but I would like to personally thank all of you for all of your help.

The Fall Golf Outing was outstanding, thanks for all of the help. We had 48 players; an outstanding outing, the winner was the same team, I think my wife is working on breaking this team up, watch out Bryan. All kidding aside it was great, good thing it was set back two weeks because we could not have asked for a more wonderful day.

Mark your calendars Volunteers for the Spring Golf outing and calling campaigns, the more the merrier as they always say. I will need prizes for both Golf outings so please help out. E\*mail me at [stevemarek@adamscompaniesinc.com](mailto:stevemarek@adamscompaniesinc.com) if you can help out in any way.

Let's make it another great year and set a new HIGH.

We are off to another great start; I will update the totals next year and get us to our goal.

Let me add your name to the January Newsletter, I have all of the officers and BOG members, let's add yours. Anyone can donate.

Steve Marek

### **Did you know?**

ATLANTA – The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and the Canada Green Building Council (CaGBC) will work together to advance buildings that are healthy, productive, environmentally responsible and economically viable.

The two organizations, both of whom are committed to green building and sustainable community development, have signed a memorandum of understanding.

The memorandum calls for ASHRAE and the Council to join efforts in development and maintenance of technical standards and guidelines, communications and marketing, and research and education of members and the building industry.

"This year, ASHRAE has renewed focus in working with other organizations to share and further our technical guidance," Terry Townsend, P.E., ASHRAE president, said. "Working with the CaGBC will allow us to improve on our efforts in

achieving energy savings without sacrificing comfort, air quality or productivity."

Thomas Mueller, president of the CaGBC, also is enthusiastic about the new collaboration.

"The CaGBC shares ASHRAE's interest in the opportunities to evolve the technical aspects of buildings," he said. "The work we can do together in Canada will benefit not only our respective memberships but anyone interested in engaging in better building practices."

The CaGBC was established in December 2002 to promote and accelerate the design and construction of high performance buildings for livable communities. The Council advances market transformation through advocacy, education, application and development of tools, and celebration of demonstrably superior performance. The CaGBC membership represents a reach of more than 500,000 public and private sector professionals across Canada.

ASHRAE, founded in 1894, is an international organization of 55,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

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### **Honors & Awards Chair**

Chris Crane

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## NOVEMBER'S MEETING MINUTES



Charles Hipp opened the meeting and thanked everyone for coming.

### A. Chapter Officer Reports:

1. President (B. Nutting) – No report
2. Vice President (P. Garces) – Assigned duties to Oyster roast. Details to be emailed out.
3. Secretary (R. Turner) – New font in parts of newsletter!!!!!!
4. Treasurer (L. Schweers) – no report
5. Student Activities (C. McGartlin) – wants to get corporate sponsors for SCAD student ASHRAE project work

### B. Chapter Chairmen Reports:

1. Membership (S. Marek) – Research Promotion night with word from regional.
2. Student Activities (C. McGartlin) – corporate sponsors for SCAD student ASHRAE project work.
3. Chapter Programs (P. Garces) - Oyster Roast.
4. Historian (D. Tomayko) – New pictures ready for website.
5. Refrigeration (S. Peak) - Nothing to report.
6. Research (S. Marek) – Golf went great
7. TEGA (G. Brown) - Nothing to report.
8. Honors & Awards (S. Marek) – no report

C. Old Business: Nothing to report.

D. New Business: Nothing to report.

### The Charleston Chapter Wall of Honor

(\$100 or more individual donation)

**Much of our money comes in through individual donations so please give. We are starting the Charleston Chapter Wall of Honor again this year.**

### **Can we put yours on here as well?**

'06-'07 HONOR ROLL DONORS

Louie Schweers  
 Dennis Knight  
 Del Laquiere  
 Bo Nutting  
 David Tomayko

Louie Schweers  
 Tim Walker  
 Steve Marek  
 Ron Runyon  
 Randy Jones  
 Philip Garces  
 Randy Jones  
 Chris Crane  
 Lee Abernethy  
 Rob Turner

### **CORPORATE/HONOR ROLL INVESTORS 2006-2007:**

#### Platinum Level Donor: (HIGH to Date)

Simply Sharp Interiors

#### Gold Level Donors: (\$800+)

Triad Mechanical Contractors

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#### Silver Level Donors: (\$500+)

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CMI

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CR Hipp Construction

Epting Distributors

#### Honor Level Donors: (\$150)

Liollio Architecture

Now Mechanical

GKA, LLC

## CHARLESTON CHAPTER ANNUAL PROGRAM 2006- 2007

### **September**

Tuesday Sept. 12<sup>th</sup>.

Program Speaker- Gerard L. Iacouzze

Duct Leakage Measurement and Effect on  
System Performance

### **October**

Tuesday October 10<sup>th</sup>

Mark Nennelly, Distinguished Lecturer

Thursday, October 26<sup>th</sup>

SCAD EXPO and Savannah Section  
Meeting.

### **November**

Tuesday November 14<sup>th</sup>

Allen Rudy, Building Codes Inspector  
General updates and issues.

Membership Promotion Night, attending will  
be RVC Drayton Stott.

### **December**

Tuesday December 5<sup>th</sup>

Oyster Roast and Bill Coad, Distinguished  
Lecturer

VAV System Design, A Fundamental  
Perspective on Chilled Water Systems, The  
Ethics and Economics of Energy  
Conservation

Donor recognition night

### **January**

Tuesday January 9<sup>th</sup>

Dr. John Ambrose, University of Florida  
Materials Professor

Materials Engineering: Corrosive materials  
and environments

### **February**

Tuesday february 13<sup>th</sup>

Joint Engineers Luncheon

### **March**

Tuesday 13<sup>th</sup>

John Murphy, Trane Applied Systems  
Expert

Design, implementation and Fundamental  
concepts of HVAC

### **April**

Tuesday 10<sup>th</sup>

Joe Riley - Charleston Mayor Or Law  
review

Politics and Leadership

### **May**

Tuesday 8<sup>th</sup>

GC/MC/ME/Architect and Developer Forum  
Discussion on Jobs and how we interact  
with each other.

Student Activities Night

