

NOVEMBER
2009 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

NOVEMBER 10, 2009

LOCATION: NORTH CHARLESTON
RADISSON HOTEL

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: \$20 / PERSON + \$5 OPEN BAR

THIS MONTH'S PRESENTATION BY:

LIZ DRESS

TOPIC:

RENEWABLE ENERGY SOURCES

This Month's Articles:

- Presidential Message
- Monthly Topic and Speaker
- The CTT Corner
- Research Promotion
- Student Activities
- Member News
- Sponsorships and Investors
- The Wall of Honor
- Upcoming Events
- Get Involved

Presidential Message

Presidents Corner, November 2009

What an amazing and successful golf tournament at The Links @ Stono Ferry. Many thanks to Pam Phillips, Randy Jones and the Staff at Stono Ferry for making this event so enjoyable. With the exception of a “little” rain, I don’t think things could have gone much better.

We are continuing our programs this month with a presentation from Santee Cooper, and their involvement in renewable energy sources. Let’s all bring some ideas to the table, and explore how renewable sources can impact us locally in design and development of high performance buildings.

This month being Donor Appreciation, I’d like to acknowledge all our ASHRAE donors. The Charleston Chapter has a long history of generous financial support from our membership. Beyond the monetary donations, let’s also recognize those who give their time to keep the chapter strong. Thank You to our sponsors, officers and committee chairs for all the support given to ASHRAE.

See you on Tuesday!

Pete Conroy
Chapter President

Monthly Topic and Speaker

This month’s topic is: Renewable Energy

This month’s speaker is: LIZ DRESS

Liz is a Principal Engineer with the South Carolina Public Service Authority (Santee Cooper), working in the Conservation and Renewable Energy Group as a developer of Biomass, Solar and Offshore wind projects, and other renewable energy activities for Santee Cooper.

She graduated from Lehigh University in Bethlehem, PA with a BS in Metallurgy and Materials Engineering, and also has an MBA from the University of South Carolina. Originally from Hagerstown, MD- counts herself as only a “darned Yankee” since Maryland is below the Mason-Dixon line and her family always drank sweet ice tea. Has lived in South Carolina for 20+ years, and has an amazing 14-year-old daughter, Clara.

The CTT Corner

An extremely interesting presentation was given by Dr. Emad Afifi and a number of architectural students from Savannah College of Art and Design (SCAD). Dr. Afifi and every one of the students did an outstanding job of presenting this program.

In the past, Dr. Afifi did research in double envelope systems and a number of architects have used this over the past 20 years.

The students described their three entries in the Urban Shed International Design Competition sponsored by the NY City Building Department. None of these entries were selected for construction but each of the concepts was truly outstanding.

Design is about building performance. The driving factor is what a building is supposed to do. Appearance is incorporated into this.

The project was to construct a shed over the sidewalk for protection of pedestrians while construction was accomplished in the adjacent building.

Air curtains were included to separate the street from the semi-air-conditioned space in the shed.

It was required that the shed be able to support scaffolding.

The first presentation was the "Gamma Shed". This was built on 3 sides of the construction. It included nodes for bike racks, and building entrances. A clearance height of 15 ft was provided. The air return was designed to catch construction trash. The temperature inside the shed was up to 10 degrees warmer or cooler than ambient. Design options included canvas and perforated metal.

The second presentation "Lightwalk" used architectural fabric and air curtain. Five variations of this design were accomplished. Some portions were left narrower to allow room for newsstands etc outside of the shed. The fabric allows passage of light into the shed.

The third presentation emphasized sustainability and ease of assembly and storage. The design included transparent and translucent louvers. The steel trusses and columns incorporated concrete bases to prevent uplift. One area has louvers, one area has perforated fabric and one area has lighting.

One of our chapter members commented that these designs would be a tremendous advantage to businesses which must continue to attract customers during construction.

Anyone with questions can contact me at gene_brown_jr@yahoo.com.

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RESEARCH PROMOTION

This is Donor Recognition Month; I would like to thank all the donors that helped the Charleston Chapter exceed our goal for Research Promotion. The Charleston Chapter helped ASHRAE Research Promotion rise over \$2 million last year. ASHRAE Region IV has over \$500,000 worth of active or recently completed research projects, these projects are a large asset to our region.

I personally worked on a project research funded by The National Science Foundation. The grant funded lab equipment, personal protective equipment, and supplies that were needed for the research. The research that I did was my final project for my bachelors' degree and will be used in a Doctoral Thesis. Without the grant from the National Science Foundation, the research would not have been funded and with no funding the research would not have been completed.

From a Research Grant receiver, Thank you for Supporting ASHRAE Research.

Pam Phillips

Anyone with questions can contact me at PAMELA.PHILLIPS@ARCADIS-US.COM

Student Activities

Last Month was Student Activities Month.

Please speak to Carl McGartlin for ways you can get involved with our Student Chapter.

He can be emailed at:

cmcgartlin@spirax.com

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Member News

If you have recently moved to the Charleston area and wish to transfer your membership, please contact our Membership Chair, **Charles Hipp**, or make the change online at www.ashrae.org.

Sponsorships and Investors

2009-2010 ASHRAE RESEARCH INVESTORS

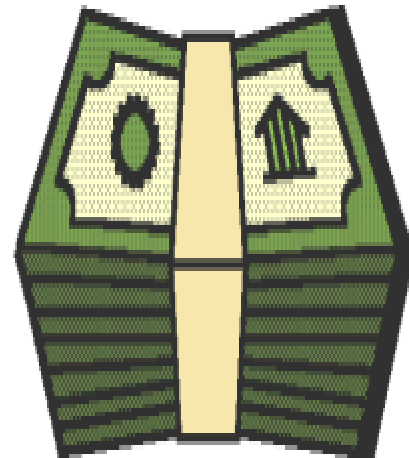
Midsouth Marketing of North Carolina
Triad Mechanical Contractors
Imperial Metals
James M. Pleasants
The Chapman Company



The Wall of Honor

Individual Donations of \$100.00 or More

Denis Knight
Randy Jones
Peter Conroy
Pamela Phillips
Brian Keiser
Dave Tomayko
Gene Brown
Steve Marek
Eric Crawford
Clarence Ham



Upcoming ASHRAE Events

AHR EXPO

LOCATION: ORANGE COUNTY CONVENTION CENTER

ORLANDO, FLORIDA

DATES: JANUARY 25-27TH, 2010

ASHRAE CHAPTER MEETINGS

November Meeting

Donor Recognition Night

Tuesday November 10, 2009

Location: North Charleston Radisson Hotel

Speaker: SCEG

December Meeting

Oyster Roast

Tuesday December 8, 2009

Location: Trane Office

Speaker: Jeff Watcke

January Meeting

Membership Promotion Night

Tuesday January 12, 2010

Location: North Charleston Radisson Hotel

Speaker: Dwight Landry

February Meeting

National Engineers Week

Tuesday February 16, 2010

Location: Citadel

Speaker: **Dennis Knight (DL)**

March Meeting

Research Promotion Night

Tuesday March 9, 2010

Location: North Charleston Radisson Hotel

Speaker: Mark Hegberg

April Meeting

History Night

Tuesday April 13, 2010

Location: North Charleston Radisson Hotel

Speaker: **Dennis Knight (DL)**

May Meeting

Student Activity Night

Tuesday May 11, 2010

Location: North Charleston Radisson Hotel

Speaker: **Paul Pieper (DL)**

June Meeting

Chapter Social

Tuesday June 8, 2010

Location: TBD

Speaker: No Speaker

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GET INVOLVED

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

CHAPTER COMMITTEE CHAIRS

CHAPTER OFFICERS

PRESIDENT

Pete Conroy
Phone: 377-2300
Fax: 377-2301
petec@jmpco.com

VICE PRESIDENT

Brian Keiser
Phone: 971-9639
Fax: 971-9641
bkeiser@rmf.com

SECRETARY

Eric Crawford
Phone: 556-7272
Fax: 556-7487
trsecrawford@bellsouth.net

TREASURER

Clarence Ham
Phone: 991-4845
Fax: 553-5565
clarenceham@bellsouth.net

HISTORIAN

Dave Tomayko
Phone: 819-2742
dtomayko@knology.net

MEMBERSHIP

Charles Hipp, III
Phone: 367-2404

MEMBERSHIP VICE

CHAIR

Barrett Williams
Phone: 881-3201
Fax: 881-3628

REFRIGERATION

TEGA/CTT

Eugene G. Brown, Jr.
Phone: 963-4983
Fax: 963-4993

RESEARCH PROMOTION

Pamela Phillips
Phone: 375-5990 x 20
Fax: 375-5993
pamela.phillips@arcadis-us.com

STUDENT ACTIVITIES

Carl McGartlin
Phone: 406-0035
Fax: 406-0035

PROGRAMS

Brian Keiser
Phone: 971-9639
Fax: 971-9641

RESEARCH

Dan Cartin
Phone: 744-4477
Fax: 747-3399

SAVANNAH SECTION

CHAIR

Pete Conroy
Phone: 377-2300
Fax: 377-2301

SAVANNAH SECTION

VICE-CHAIR

MYRTLE BEACH SECTION CHAIR

Eric Crawford
Phone: 556-7272
Fax: 556-7487

NEWSLETTER EDITOR

Eric Crawford
Phone: 556-7272
Fax: 556-7487

HOMEPAGE WEBMASTER

Tim Walker
Phone: 553-5513
Fax: 824-0501

STUDENT ACTIVITIES

Carl McGartlin
Phone: 406-0035

STUDENT ACTIVITIES

VICE CHAIR

Dr. Emad Afifi
Phone: (912) 525-6876

HONORS AND AWARDS

Bo Nutting
Phone: 745-6748
Fax: 744-5553

CHARLESTON ENGINEERS JOINT COUNCIL LIASION

Brett West
Phone: 971-9639
Fax: 971-9641

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