



Giga-Joule

Greenville Chapter

October, 2009

<http://www.ashrae4greenville.com/newsletter.php>

Meeting Announcement

The September meeting will be held on Thursday, October 8th at the Roper Mountain Science Center. The details are listed on the Programs Page. For more information, please contact our Programs Chairman, Manuel del Valle, by phone at 864-234-3802 or email at programs@ashrae4greenville.com

A Message from the President

We had a great start for our first meeting this year. We had a good turnout and looking forward to our year's presentations we should be providing a lot of great speakers. We plan to have 3 Distinguished Lectures for this year.

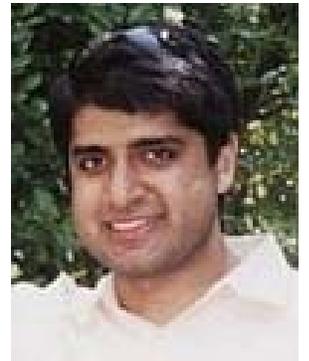
If you did not notice, we are continuing to use our 5 for 4 meals cards this year. For every 4 meetings that you attend, you will get a 5th meal/presentation for free. Come out for all the programs and earn your 5th meal.

Please note that this month is Membership Promotions meeting. Please see Dorothy's section below and bring out some new faces!

We will be hosting our Golf Tournament this month at the Verdae Greens Golf Club. It will be on Thursday, October 23, 2009. Get your teams together and let's make a great turnout for this year's Golf Tournament. See below for Ryan's message for more details and remember that the Golf Tournament benefits Research Promotion.

On a business note: there will be a motion to raise chapter paying dues put to a vote at the October meeting. Please see at the end of the Giga-Joule for the motion outline. Remember that chapter dues pay for Board of Governor's meetings that are held monthly, honorariums for Distinguished Lecturers, travel expenses for speakers, holding the Roper Mountain Science Center for a place to have our programs, and to sponsor the Science Expo Award.

Call or email me with any comments or suggestions. I am always open to new ways to improve the ASHRAE experience for our members



Davin Sandhu
President

president@ashrae4greenville.com

Chapter Programs

Last month Victor Walker gave a presentation on an innovative wastewater treatment system. The presentation was brief, however, thanks to all of the inquisitive attendees we made a full session of it. Personally, I would have preferred more technical information in the presentation. I want to strive to make all of our meetings valuable to our attendees.

This month's meeting will again be held at the Roper Mountain Science Center with Trish Jerman of the South Carolina Energy Office. Please see the meeting agenda below for information on the program. As always, we welcome feedback on past programs and suggestions for future ones.



Manuel del Valle
Programs Chair
programst@ashrae4greenville.c

October Meeting

Program: SC Energy Office – American Reinvestment and Recovery Act (ARRA) Stimulus Funding

Presenter: Trish Jerman, SC Energy Office

Ms. Jerman currently manages the Policy and Programs Team at the SC Energy Office, where she oversees alternative energy, transportation, energy conservation & efficiency, public information, and forecasting & tracking functions.

Prior to that, she was the manager of the South Carolina Sustainable Universities Initiative, incorporating principles of sustainability into curricula, operations, and community outreach efforts of the state's three research universities along with 13 affiliate member colleges and technical schools.

Ms. Jerman has also served as the Executive Director of the South Carolina Wildlife Federation, as a consultant with a Fortune 500 engineering and environmental consulting firm, and as an environmental advisor to former S.C. Governor Dick Riley. She has written articles and book chapters on a variety of topics, as well as the South Carolina Nature Viewing Guide, published by the S.C. Department of Natural Resources.

Trish was a founding member of the board of the South Carolina Chapter of the U.S. Green Building Council and has served on a number of other boards and committees including the South Carolina Environmental Law Project, South Carolina Environmental Excellence advisory board, and the American Textile Manufacturers Institute Encouraging Environmental Excellence advisory board.

Location: Roper Mountain Science Center (www.ropermountain.org)

Date: Thursday, September 8, 2009

Time: 11:30 a.m. Doors Open
11:35 a.m. Lunch Served
11:45 a.m. to 12:00 p.m. Chapter Business
12:00 a.m. to 1:00 p.m. Main Program

Cost: Lunch Program: \$10/chapter member \$15/non-chapter member (catered lunch)

Education Credit: This program qualifies for 1.0 PDH (including NC PE)

***Please RSVP to programs@ashrae4greenville.com
no later than Noon Tuesday, September 6, 2009***

Membership Corner

Membership in ASHRAE – the American Society of Heating, Refrigerating and Air-Conditioning Engineers – is open to any person associated with heating, ventilation, air conditioning or refrigeration through such disciplines as indoor air quality and energy conservation, for example. Membership in ASHRAE allows access to state-of-the-art HVAC&R technology and provides many opportunities to participate in the development of that technology.



Our October Meeting will be our First Membership Promotion Meeting – Thursday October 8, 2009, 11:30 at Roper Mountain Science Center. Our second Membership Promotion Meeting will be held in March, more information will follow.

We would like to thank all members who recently joined via a Membership Promotion Meeting, a transfer in, or just called to be a Member, we appreciate your support. As well as welcome back our existing members, we could not do this without you all.

Now...we need you to share with your friends and colleagues the benefits of being a Member of the Greenville Chapter of ASHRAE. **Invite, invite, and then invite some more...**any new potential Non-Members. Don't forget about those Young Engineers – ASHRAE offers a special membership for engineers currently under the age of 35 to encourage them to be involved...these are our future leaders.

The format for our membership promotion meeting will be as follows, members (in good standing) will enjoy a free lunch with their guest's completed ASHRAE Membership form ~ of course your guest will eat free as well. See me at the sign in table for applications and to answer any questions that you or they may have regarding ASHRAE Membership.

And by the way – all existing members wishing to Upgrade your ASHRAE Membership must go online to www.ASHRAE.org to complete your BIO...your membership status may be automatically updated based on the information that you supply...it's quick and it's easy ~ After all it all about YOU!

I am always available to discuss your questions and concerns, or if you have a good idea or suggestion on how we can increase membership – trust me...We are interested.

Drop me an email Membership@ASHRAE4GREENVILLE.COM or call me at 444-0219.

See you on October the 8th – hopefully with all of your friends in tow.

Best Regards,
Dorothy Bertolini
Membership Chair – ASHRAE Greenville SC
membership@ashrae4greenville.com

Chapter Technology Transfer

In May of this year I sent a letter to the then president of ASHRAE and the majority of the executive committee, including the president elect. To date I have not received the first comment or response from of the executive committee. I would like to use this opportunity to share the contents of that letter with members of the Greenville chapter.



Devon Cortright PE
Chapter Technology
Transfer Chairman
ctt@ashrae4greenville.com

May 18, 2009

William Harrison
President ASRHAE
1791 Tullie Circle, N.E.
Atlanta, GA 30329-2305

Dear Mr. Harrison:

In 2003 I wrote a letter to then President Collier regarding the unnecessary complexity of the standards developed by the ASHRAE Standards committees. In the intervening years the situation has gotten worse, and is accelerating. Again I feel compelled to voice my opinion.

ASHRAE publishes the handbooks and standards that define the generally accepted “Standard of Care” for my profession. These same documents are becoming increasingly difficult to apply and are establishing a level of performance required of the design engineer that cannot be realistically met. At the same time in our increasingly litigious society, these same documents are the weapons used by the legal community in lawsuits against engineers. I am personally aware of two instances where failure to comply with ASHRAE 62.1 is among the complaints registered against engineering firms in lawsuits. (Unfortunately, I cannot provide additional comment on either because of my potential involvement as an expert witness.)

The design engineer is being pressured to do more in less time while designing systems with the lowest initial cost. (Operating cost is rarely an issue.) While the ASHRAE Handbooks and Standards propose more complex methods for the analysis and design of HVAC related systems. Standards, such as 15, 62.1, and 90.1 become more demanding, more difficult to apply, and establish a standard of care that may be more useful to attorneys than engineers. HVAC systems complying with these standards are increasingly complex, and utilize technology that is unfamiliar to contractors and building owners. Compound this with the poor understanding and lacking skill set that is endemic in building operators and the construction trades. Assuming a qualified engineer can design a system that follows the standards and fits within the client’s budget, who has the skills to build these increasingly complex systems, and how long will the owner operate and maintain it as intended?

The front of the ASHRAE Handbooks states, “Dedicated to the advancement of the profession and its associated industries.” Advancement of the profession must include a realistic balance between the needs of society and the ability of the engineer to be able to provide system designs that can be built and maintained by clients in a cost effective and timely manner. It appears to me that ASHRAE has lost sight of the overall balance of this equation.

As currently written, the handbooks and standards reflect some of the highest ideals of our profession. I do not design ideals. The majority of my clients want inexpensive HVAC systems designed in minimal time for a fee that is painfully low, particularly when evaluated against the effort and professional liability exposure. I am forced to work in the marketplace of today. Unfortunately, ASHRAE, the organization supported by my dues, appears to be increasingly distant from the working world of the design engineer.

The society goals of sustainability and energy efficiency are exemplary and I wholeheartedly endorse them, but ASHRAE must also support the health of the industry and be an advocate for those making a living in it. I am convinced standards can be written that are easily understood, can be applied in the real world, support the larger sustainability goals, and not compound liability issues faced by design engineers.

I have expressed the above opinions to many within ASHRAE, but have seen no improvement. Over the years I have repeatedly heard from regional officers that this organization has a bottom up management structure. Well, this member on the bottom, is wondering who is listening?

Sincerely,

Devon Cortright, P.E., LEED AP
Chairman Chapter Technologies Transfer, Greenville Region IV
ASHRAE Member Since 1982

Research Promotion



Welcome back for another great year. This year is going to be an incredible year for ASHRAE Research. To start the year off strong we are going to have our Fall Golf Tournament. The tournament is one month away and fast approaching. Make sure that you mark your calendars for October 22 and sign up today to guarantee your spot. We are continuing the tradition with a shotgun start at Verdae Greens Golf Club at 12:30. Golf and Lunch is \$75 for a player and \$275 for a foursome (rates include greens fees, cart, range balls, 2 drink tickets, prizes and lunch).

Sponsorship opportunities are available, so make sure your company is well represented at the tournament. Contact me for more information and to sign up.

Ryan Deter
Research Promotion Chair – ASHRAE Greenville SC
rp@ashrae4greenville.com

ASHRAE FALL 2009 GOLF TOURNAMENT

WHERE: VERDAE GREENS GOLF CLUB

650 Verdae Boulevard, Greenville, SC (864) 676-1500

WHEN: THURSDAY, OCTOBER 22nd

GOLF: SHOTGUN START AT 12:30 PM

Cost

Golf & Lunch - \$75 / player or \$275 / foursome
(Incl. greens fees, cart, range balls, 2 drink tickets, prizes, lunch)

Mulligans - \$20 / team (1 shots per player)



SPONSORS!!!

Hole Sponsorship: \$400

Silver: \$500 (1 hole sponsorship & 1 player in tournament)

Gold: \$800 (1 hole sponsorship & 1 team in tournament)

Platinum: \$1,000 (1 hole sponsorship & 1 team in tournament, plaque, name on ASHRAE webpage, recognition at all meetings)

***All sponsors will have their fees donated to
ASHRAE Research in their company's name**

**** Sponsorship is for Fall and Spring Golf Tournaments**

Please see next page for registration and contact information

2009 ASHRAE FALL GOLF TOURNAMENT

Registration Form

SPONSORS

Company Name: _____

Contact: _____

Telephone: _____

E-mail: _____

Sponsorship Level (circle one):

Hole Sponsor - \$400

Platinum - \$1,000 (list golfers below)

Gold - \$800 (list golfers below)

Silver - \$250 (list golfer below)

*Sponsorship is for Fall and Spring
Golf Tournaments

(Golfers for Fall Tournament Only)

Golfer 1: _____

Golfer 2: _____

Golfer 3: _____

Golfer 4: _____

**Please make checks out to:

ASHRAE RESEARCH

GOLFERS ONLY

Name: _____

Company: _____

Telephone: _____

E-mail: _____

Other Team Members:

Golfer 2: _____

Golfer 3: _____

Golfer 4: _____

**Please make checks out to:

GREENVILLE ASHRAE

*** All proceeds go directly to sponsor **ASHRAE Research*****

Mail checks to: Ryan Deter

109 Farm Mill Circle, Simpsonville, SC 29681

For all other questions, please contact Ryan Deter at (864) 908-1824

E-mail: ryandeter@bellsouth.net

Tentative Event Dates for 2009-2010

<u>DATE</u>	<u>EVENT</u>	<u>DETAILS</u>
Thursday 09/10/2009	September Chapter Meeting: Wastewater Treatment	Presenter: Victor Walker
Thursday 10/08/2009	October Chapter Meeting: SC Energy Office – ARRA (Stimulus Funding)	Presenter: Trish Jerman
Thursday 10/22/2009	ASHRAE Golf Tournament	
Thursday 11/12/2009	November Chapter Meeting: Electrical Design Issues for the Mechanical Engineer	Presenter: Bob Bruns, PE
Thursday 12/10/2009	December Chapter Meeting: Chilled Beams @ Furman University	Presenter: Jeff Rederson, PE Director of Facilities, Furman U.
Thursday 01/14/2010	January Chapter Meeting: Legal Aspect of Industry	Presenter: Ward Lambert
Thursday 02/11/2010	February Chapter Meeting: Building Information Modeling	Presenter: Dennis Knight *
Wednesday 03/11/2010	March Chapter Meeting: Ethical Decision Making	Presenter: Barry Benator *
Thursday 04/08/2010	April Chapter Meeting: Hydronic Systems	Presenter: Chris Edmunds *
Thursday 05/14/2010	May Chapter Meeting: Variable Frequency Drives	Presenter: Greg Heartman

* ASHRAE Distinguished Lecturer



ASHRAE
Technology for a Better Environment

Region IV
Greenville Chapter

Motion Identification No.: Greenville ASHRAE Chapter, Motion No. 1, October 8, 2009

Motion: Raise Greenville ASHRAE Chapter paying dues from \$25 per member to \$30 per member.

Background: Region IV ASHRAE has increased the amount that goes to region from each chapter from \$2 per chapter paying member to \$5 per chapter paying member. Region IV's fund has been depleted over the past couple of years where it can no longer operate efficiently. This increase has been put into effect August 2009 at the CRC.

Last year the chapter operated efficiently with \$23 per chapter paying member. The raise of chapter paying dues to \$30 per member will keep the operating revenue around \$25 per chapter paying member. If the chapter is to operate on \$20 per chapter paying member, the chapter fund will diminish and the quality of presentations will start to suffer.

Greenville Chapter dues are one of the lowest in the Region. Atlanta is \$80 and Southern Piedmont is \$70.

The proposed effective date for raising Greenville ASHRAE Chapter paying dues will be January 1, 2010.

Fiscal Impact: Minimal Cost – This will cost each chapter member \$5 more for membership per year.

This will be discussed at the beginning of Chapter meeting. Please be prepared to discuss and vote. The motion will need to be approved by a majority of the votes