



Giga-Joule

Greenville Chapter

October 2007

Meeting Announcement

The October meeting will be held on Tuesday, October 16th at the Roper Mountain Science Center. The details are listed on the Programs Page. For more information, please contact our Programs Chairman, Will Thomason, by phone at 864-232-0200 or, email at programs@ashrae4greenville.com

A Message from the President

Who says there's no free lunch?

I hope that you folks that attended our September meeting went back to your offices and told your friends about our new meeting promotion. For those of you who missed our meeting, here is how it works. Make sure you have your ASHRAE dues paid up, including your chapter dues. Pick up a discount card when you sign in at the meeting. Get your card initialed when you pay for four (4) meetings, and the 5th meal is free. There is no reason not to take advantage of the offer, because the discount card is free to all chapter paying members. Everyone at the meeting seemed to be very enthused at this new benefit for our members.

Now for October, we've got another deal for you. Drag in a new prospective member to our October 16th meeting and BOTH of you can eat for free. Here's the catch, your prospect needs to bring their membership form to the meeting with a check for this year's dues. If they would rather fill out the form online, then surf to www.ashrae.com and click on the JOIN ASHRAE box on the left of the page. Follow the instructions to fill out the application and pay online with a credit card. Print out the confirmation and bring it to the meeting. We will even have membership forms at the meeting so your prospect can fill it out at the meeting. However, we are unable to take credit card payment at the meetings.

Those of you that need to renew your membership can do that online as well. Remember that you need to be a paid up chapter member to take part in the discount meal plan.

I would like take a minute for special thanks for our Membership Chairman, Chris Adams. Chris presented a program on the new technology of Variable Refrigerant Flow at the September meeting. Our scheduled speaker for September, Jeff Hinson, had a family emergency and had to cancel on us at the very last moment. Chris did a great job on extremely short notice and bailed us out of a real jam. Thank you, Chris! Those of you wanting to hear Jeff speak on the Clemson University central condenser water system won't be disappointed. We have Jeff rescheduled for the spring.

Please don't be afraid to call or email me with any comments or suggestions. I am always open to new ways to improve the ASHRAE experience for our members.

Karl F Counts PE
Greenville ASHRAE President
president@ashrae4greenville.com





Will Thomason
Programs Chairman
programs@ashrae4greenville.com

Chapter Programs

The Programs Committee is continually brainstorming for future program ideas.

- Has a recent magazine article piqued your curiosity on a new technology or application?
- Do you have a need for specific training?
- Would you like a full or half day seminar on a technical issue?

I would really like to hear your suggestions and extend the offer to join the Programs Committee. Besides proposing meeting subject matter, committee members receive the opportunity to review the suggestions of others and vote on which topics are selected. This is a great way for you to make yourself heard.

October Meeting

Program: **Chiller Plant Piping**

Presenter: **Chris Edmondson PE, James M Pleasants Co.**

Chris Edmondson received his B.S. degree in Mechanical Engineering from North Carolina State University in 1967. During the summers, he worked at Barber Coleman and Jay Johnson Controls. After graduation, he spent four and a half years as a salesman with the Trane Company. In 1971, he came to work for the James M. Pleasants Company, Inc. (Manufacturer's Representative for the ITT Fluid Handling Division). He worked as an outside salesman until 1978, when he was promoted to Vice President and Sales Manager until 1987. Since 1987 to the present time, he has served as President of the James M. Pleasants Company, Inc.



Besides his 30+ years of experience in the Hydronics field, Chris Edmondson has been an outspoken advocate of ASHRAE for his entire working career. In his local North Piedmont Chapter, Chris held leadership positions of Secretary/Treasurer, Vice President and President. For the fiscal year, 1985-86, he received the Rudy Ferguson Memorial Award (Presidential Award of Excellence). In 1985, he became a technical speaker to various ASHRAE chapters and continued through 1989. He spoke at the ASHRAE Region VII CRC in 1992 and also at the Birmingham Region VII CRC. He also held the position of Educational Activities Vice Chair for Region IV from 1992-1994. In 1994, he was the Chapter Programs RVC for Region IV. In 1998-2000, he was Region IV ARC and during 2001-2003 Chris served as Region IV DRC.

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

Date: Tuesday, October 16, 2007

Time:

11:30 a.m.	Doors Open
11:35 a.m.	Lunch Served
11:50 a.m.	Chapter Business
12:00 a.m. to 1:00 p.m.	Main Program

Cost: \$10/person (includes a catered lunch) **Guests are welcome!**
Read about our new lunch packages in the Membership Corner

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

**Please RSVP to programs@ashrae4greenville.com
no later than Noon Friday, October 12, 2007**

Membership Corner (FREE LUNCH!?!?!?)

Membership Promotion Meeting 1 of 2 for this year. For these meetings, we offer a free lunch to all New Members who join us with a completed application. We also offer free lunch to those who bring a guest who is signing up to join us in ASHRAE. We are excited to see new faces and new members. We hope to see everyone at our meeting and being introduced to the new members they bring to join us.

For questions and applications, contact me.
membership@ashrae4greenville.com or (704) 664-4907

Other Discounts:

Package A: Discount Card

If you are a Society Member in good standing (society dues paid up) and have your Chapter Dues paid up, we will issue you a card at your first meeting of the year. Each time you pay for a meeting this card will be punched/notarized. When you have four (4) meetings paid for, the fifth is free.

Package B: Prepaid Year

If you are a Society Member in good standing (Society Dues Paid Up) and a Chapter Dues (Paid Up), you will be offered the option of paying one charge of \$75 for the entire years programs (\$90 value).

ASHRAE Membership Applications can be obtained at our regular meetings.



Chris Adams
Membership Chairman
membership@ashrae4greenville.com

Technology, Energy, & Government Activities

Attic Duct

While working on some performance issues with a heat pump installed in a high end beach front property, I was forced to recognize the heat gain inherent in duct routed through the attic. My field measurements were indicating the supply air at the grille was warmer than the air leaving the heat pump – more than I had expected. I ran some simple calculations based on a 50 foot duct run through an attic at 120 degrees, and – Duh – the air gets warmer by about 2 to 2.5 degrees F; similar to what I saw at the beach house. This is based on R6 duct insulation, increasing insulation to R8, as required in the more recent codes, reduces the temperature increase by about 30%.

This seems so obvious, but did not appear in the ASHRAE Handbooks until the 2005 Fundamentals. Table 6 in Chapter 29 appears to address this issue, but I am puzzled about the proper application of the information. In spite of this, I have started to include an allowance for duct heat in attic applications based on my own simple analysis. This change has resulted in some unhappy comments from multi-family architect and developer clients about the slightly larger equipment serving top floor apartments.



Devon Cortright PE
Chapter Technology
Transfer Chairman
dcortright@h2l.com

Greenville Chapter Platinum Sponsors:

2007-2008 Chapter Officers

Position	Officer/Chairman	Company	Phone	Fax	email
President	Karl Counts	Day & Zimmermann	241-8335	241-6750	president@ashrae4greenville.com
Vice-President	Eric Scott	Carrier Carolinas	232-6633	242-0290	vp@ashrae4greenville.com
Programs Pres-Elect	Will Thomason	James M Pleasants	232-0200	298-6330	programs@ashrae4greenville.com
Secretary	Davin Sandhu	Johnson Controls (York)	234-3819	676-1174	secretaryt@ashrae4greenville.com
Treasurer	Rodney Hinton	Palmetto Air and Water Balance	877-6832		treasurer@ashrae4greenville.com
Governor (Historian)	Paul Jensen	Trane Upstate Carolina	672-6130	672-6001	history@ashrae4greenville.com
Governor	Bill Knight	Greenville County Schools	355-7792	355-9388	gov3@ashrae4greenville.com
Membership Chair	Chris Adams	Adams Companies	704-400- 6033	704-664- 0846	membership@ashrae4greenville.com
Research Prom. Chair	Brian Alexy	Carolina Cooling	633-9494	704-521- 4444	rp@ashrae4greenville.com
CTT Chair	Devon Cortright	H2L	233-8844	232-2679	dcortright@h2l.com
Student Activities Chair					sa@ashrae4greenville.com
Webmaster	Karl Counts	Day & Zimmermann	241-8335	241-6750	webmaster@ashrae4greenville.com

Tentative Event Dates for 2007-2008

Tuesday 9/18/2007	Variable Refrigerant Flow	Chris Adams Adams Companies
Thursday 10/25/2007	Fall Golf Tournament	October 25 Willow Creek Golf Club
Tuesday 10/16/2007	Chiller Plant Piping	Chris Edmondson PE James M Pleasants
Thursday 11/8/2007	Legal Topic	Ward Lambert
Thursday 12/13/2007	ASHRAE 90.1	Dick Lord
Thursday 1/10/2008	Mechanical Insulation	Roger Schmidt
Thursday 2/14/2008	Clemson University Chilled Water District	Jeff Hinson
Tuesday 3/11/2008	Joint Meeting with the SC Mechanical Contractors Association	TBD
Thursday 3/13/2008	TBD	TBD
Thursday 4/10/2008	History of SC Chapters	Blane Walker
Thursday 4/??/2008	Spring Golf Tournament	TBD
Thursday 5/8/2008	TBD	TBD



ASHRAE
Technology for a Better Environment

Region IV
Greenville Chapter