



Giga-Joule

Greenville Chapter

October, 2011

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

Meeting Announcement

The October meeting will be held on Thursday, October 13th at the Roper Mountain Science Center. The details are listed on the Programs Page. For more information, please contact our Secretary, Ryan Tonnsen, at secretary@ashrae4greenville.com

A Message from the President

We had a great start for our first meeting this year. We had one of the best turnouts we've had in a couple of years! Thanks again to our speaker Chris Pavlatos for making the long trip down here and giving a good presentation. Evaluations of the speaker were good.

We tried our new caterer for the 2nd time last month – it was a beef stew. From the few comments I heard, people seemed to enjoy it. If you have any comments or suggestions on the food, please let me know. We are trying to provide the best food possible for what we can afford.



The Board of Governors meeting for September 20 including discussion on the following:

- YEA Weekend in Atlanta – we don't have anyone attending
- Finances – Myrna Dayan will be performing an audit per Chapter regulations
- Programs - Discussed evaluations from program last month, and quality of food. Review of meeting speaker status. We are still trying to schedule a tour of the ICAR facility. See schedule at the end of the newsletter.
- Membership – We had 1 new member join, and passed out 2-3 applications at September meeting. Also, we are trying to update distribution list.
- Research Promotion - Golf tournament planning. We will have small prices for tournament. We also discussed Chapter Meeting sponsorships. Please let us know if you'd like to be a sponsor.
- CRC – Ryan Tonnsen will be Secretary for CRC. Embassy Suites has already posted ASHRAE sign-up on their website.
- Student Activities – Starting to plan details of very important Chapter meeting on November 2nd. ASHRAE society president, Ron Jarnigan, will be there.

Grant Wiegmann
Chapter President
president@ashrae4greenville.com

Membership Corner

A big thanks to ALL who attended last month's meeting, what a great turnout...Now let's keep the fire burning and recruit members!!!

Welcome to the new members who were added at last month's meeting ~ we appreciate your interest in **ASHRAE Greenville**. We passed out several applications and look forward to welcoming many new members. Two Membership Promotion Meetings are planned for this season – the first one will be our November Chapter Meeting.



I have outlined some key points and advantages of being a Member of **ASHRAE** for you to share with your friends, colleagues and others who may be interested...

A little bit about ASHRAE and ASHRAE Membership....

ASHRAE membership is open to any person associated with heating, ventilation, air conditioning or refrigeration. **ASHRAE** is unique because its membership is drawn from a wide range of disciplines relating to the HVAC&R field. Approximately 51,000 individuals from more than 100 nations belong to the Society. Among them are students, consulting engineers, mechanical contractors, building owners, and employees of manufacturing companies, educational institutions, research organizations, government or any organization concerned with environmental control. Members range from students to longtime engineers and professionals in other related disciplines such as architecture and medical research.

Why Join ASHRAE?

Have you ever heard the saying, "it's a small world"? This certainly rings true once you join **ASHRAE's** global network, **ASHRAE** members bring this big world of ours together through the exchange of technical information, writing of standards and through committee work and networking. When you join ASHRAE, you are making an investment in yourself. When you become active in the Society by giving your time and sharing your knowledge, you get even more out of that investment.

Become Well Read

ASHRAE members receive the following as part of their membership:

- **ASHRAE Handbook** – this reference manual is the most widely cited reference for HVAC&R technology in the world. Each year one of the four volume Handbooks is updated and delivered to members to add to their library and knowledge base.
- **ASHRAE Journal** – a monthly magazine that brings current trends and information to your desk in your choice of print or digital format.
- **ASHRAE E-newsletters** – delivered to your desk in print and digital form, these publications help you keep on top of what is going on in the Society and the industry, all over the world!
- **Discounts on ASHRAE publications** – ASHRAE members earn 15% off publications through www.ashrae.org/bookstore. More than 300 titles are available including the ASHRAE Standards.

Become The Office Expert

Another popular saying is: "You learn something new every day." ASHRAE members are lifelong learners. Here are some ways you can expand your knowledge base:

- **ASHRAE Certification** – earn your certification and put the letters behind your name that show that you have the knowledge you need to succeed in the industry.
- **ASHRAE Learning Institute Courses** – earn your PDHs online or at the ASHRAE Winter and Annual Conferences. Courses are offered all year long, giving you many opportunities to learn and grow.

Be The Person You Want To Be

Networking at ASHRAE events and volunteerism in the Society are essential to your success:

- **Chapter Meetings** – each month, all over the world, ASHRAE chapters convene for an informational program featuring a speaker or topic that is key to professionals in the industry. Meet with your peers and share ideas!
- **ASHRAE Committees** – Committee members get a chance to participate and lead a group toward a common goal. The skills learned and used through committee work are valuable and useful back on the job. We are always accepting volunteers in all capacities for ASHRAE Greenville – See a chairperson or Board member if interested in serving. Or email me at membership@ashrae4greenville.com

All of these reasons, added up, are the reason **ASHRAE** exists and why **ASHRAE** needs you. Join **ASHRAE** and see why our membership is so strong and why we always have room for more professionals, just like you.

Go to www.ashrae.org and sign up or encourage your colleagues by sharing with them why you are a member.

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

Chapter Programs

As mentioned above, we are handling the Programs Chair by committee until we come up with a chairman.

This month's technical presentation is "Water Treatment for Chilled Water, Hot Water, and Cooling Tower Applications." Please RSVP so that we can make arrangements to have the appropriate amount of food available.

October Meeting

Program: Water Treatment for Chilled Water, Hot Water, and Cooling Tower Applications

Presenter: David Graham

Mr. Graham is the Southern District Manager for the Metro Group, a water treatment manufacturer headquartered in the Metro NY City area. David has been associated with the Metro Group since 2000, the last 10 of those years as District Manager; he has been in the water treatment industry for over 30 years. As district manager his main focus is account development, working with both the Sales and Service Groups, addressing the needs of a wide range of industrial and commercial organizations.

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

Date: Thursday, October 13, 2011

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 p.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 secretary@ASHRAE4greenville.com
No later than Noon Tuesday, October 11, 2011**

Chapter Technology Transfer

CTTC

62.1 Addenda

Standard 62.1 has three addenda out for review. Addendum f's introduction states that some users feel the ventilation rate procedure is too complicated. The 62.1 disagrees, but is offering to simplify the determination of V_{pz} for multi-zone spaces. The Addendum offers a default methodology in lieu of the complexities of Appendix A.

The proposed change is conservative - as stated in some of the introductory material - and will likely result in very high ventilation rates as compared to other methods for multi-zone spaces.

Addendum g deals with determining ventilation rate for spaces not listed in the table and a change in text associated with average population. Addendum h deals with changes to ventilation rates for open gymnasium spaces.

Energy Code

Current building energy codes are based on prescriptive or simulated performance. We have all seen a design taken astray by poor construction, improper operation, or lack of maintenance. The International Code Council is in the process of developing an energy code based on actual building performance. The most recent draft of the International Green Construction Code (IgCC) includes an outcome based energy compliance path alternative. This proposed code allows owners to demonstrate compliance by meeting defined energy use targets based on building type and metered performance over a given period of time after the building is operational. Enforcement of such a code is only one of a number of issues left to be resolved.

Government Affairs

Mark Willis, Manager of Government Affairs for ASHRAE is looking for volunteers. He wants to build a network of engineer-advocates who can be mobilized to encourage the adoption of pro-ASHRAE public policy. Specifically, he is looking for individuals with contacts in city council, state legislature, or are just interested. If you fit the description contact Mark Wills at 202-833-1830 x1003, mwills@ashrae.org

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



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

History

Some of ASHRAE history - part 5

Back in June of this year I took a part time job with Jacobs Engineering to work on one of their very large projects; this project occupies half of their building. The day I started I was told that they had just gone over 700 employees.

Well part time started out at 32 hours the first week, the next it was 40, and now for several months I have been working 50 hours per week. That doesn't leave much time to write an article and keep up things around the house. Hence I did not generate an article for the first issue of the GigaJoule for the start of this new season.

In my younger days I could probably worked the 50 hours and write an article and thought nothing about it; well those days are gone and sometimes I feel like I too am about gone.

What I want to write about for this October issue is about an article in September issue of the Journal on page 8. If you haven't read the article on the "AC Now Found in 87% of Homes" you need to read it.

I was surprised to learn from the article that in the pre 1940 (according to my understanding of the graph) that so many homes had air conditioning in their homes (~25%). I was born in 1938; at some point I remember WW2 was going on and when it ended. At the time I was living in a small town in Georgia – no one I know had air conditioning, nor any of the stores.

I moved to Savannah, GA in 1948 and still no one I know had AC. In fact the only store I remember having AC was Sears & Roebuck. When you went into Sears you hated to come out into the heat and humidity. I also remember one of the local churches got AC and put out a sign "Come and worship in air conditioning".

When I finished Savannah High in 1956 there wasn't any AC in any of the schools either. My first encounter with sleeping in a cooled space was on a destroyer escort (USNavy ship). I was a Machinist Mate striker (MMs deal with the steam turbines and AC aboard the ships). Sometime after getting out of the Navy I went to Clemson Collage (that is what it was called back then) and studied mechanical engineering. My first job was designing air washers for textile manufacturing – those days are gone too.

Would any of you like to share your first time living with AC? If so, send your story to history@ashrae4greenville.com.

CRC

Well here we are ready to start another year of the Greenville, SC chapter of Region IV ASHRAE and we are now on the clock as the host chapter for our annual Region IV Chapters Regional Conference (CRC).

Our CRC will be held at the Embassy Suites of Greenville August 2-4, 2012. This is the third consecutive CRC the Greenville Chapter will have hosted at the Embassy Suites. The Embassy Suites has once again stepped up to the plate and provided our chapter with some fantastic pricing not only for the rooms (\$99.00/night) but also on the use of the meeting facilities and food. We are fortunate here in Greenville to have this totally self-contained venue to host our CRC at.



We are well under way with the planning, but still need volunteers to help with various functions, committees and planning. If any of you are interested in volunteering, I would certainly appreciate hearing from you by the next chapter meeting. The success of the CRC both financially and event wise is totally dependent on the chapter members being involved. This needs to be a chapter effort, not just the effort of a few individuals.

We have an exciting CRC planned that will start with our annual CRC golf tournament at Verdae Greens, possibly a sporting clays event and a Welcome Party to kick it all off on August 2, 2012 that will feature an outdoor BBQ with music by the Dark Corner Bluegrass Band. We will also have a first class Technical Program as well as the other traditional CRC events and meetings.

Over the next few months as our CRC continues to come together we will provide updates here in the Giga-Joule. We are targeting having everything posted on the website with registration available through the ASHRAE HQ website prior to the winter meeting in Chicago in later January.

In advance I wish to thank everyone who has already signed on to participate and to those who will in the next few weeks.

Sincerely,

A handwritten signature in black ink that reads "Brandt H. Williams". The signature is written in a cursive, flowing style.

Brandt H. Williams, PE, CIAQP
Region IV-2012 CRC Chariman

Tentative Event Dates for 2011-2012

Thursday 09/08/2011	September Chapter Meeting: Fabric Duct Design	Presenter: Chris Pavlatos
Thursday 10/13/2011	October Chapter Meeting: Water Treatment for Cooling Tower, Hot Water and Chilled Water Systems	Presenter: David Graham
Friday 10/14/2011	ASHRAE Golf Tournament	Green Valley Country Club
Thursday 11/10/2011	November Chapter Meeting: Variable Volume Kitchen Application/Design	Presenter: Matt Pavlovich
Thursday 12/08/2011	December Chapter Meeting: Wireless Communications	Presenter: JCI
Thursday 01/12/2012	January Chapter Meeting: IAQ Method of 62.1	Presenter: Charles Waddell
Thursday 02/9/2012	February Chapter Meeting: Flow and Energy Meters	Presenter: David Pleasants
Thursday 03/8/2012	March Chapter Meeting: Smoke Evacuation Systems	Presenter: George McCall
Thursday 04/12/2012	April Chapter Meeting:	Presenter:
?	ASHRAE Golf Tournament	
Thursday 05/10/2012	May Chapter Meeting: Retro-commissioning	Presenter: Roy H Bohanon ASHRAE Distinguished Lecturer



ASHRAE
Technology for a Better Environment

Region IV
Greenville Chapter