



Giga-Joule

Greenville Chapter

September, 2010

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

September Meeting

Program: Controlling Air Leakage in Tall Buildings

Presenter: Rodney Hinton, TBE, CxA

Mr. Hinton is the owner and operator of Palmetto Test and Balance as well as Commissioning Consultants, LLC. He has been involved in the test and balance of HVAC systems for several years. Recently, he has been performing building leakage tests on various projects for the U.S. Army Corps of Engineers.

Leakage testing has been a topic of discussion in many HVAC circles for some time now but until recently no one has officially implemented it into their project procedures. Now the U.S. Army Corps of Engineers has mandated that all of its buildings have less than 0.25 CFM/ft² @ 75 Pa (cfm of air leakage per square foot based on a test pressure of 75 Pa). Mr. Hinton's presentation will cover the testing procedure and its importance. This has the potential to become a standard air leakage control standard in an effort to achieve higher levels of energy conservation, comfort and safety.

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

Date: Thursday, September 9, 2010

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 7, 2010

A Message from the President

Welcome to the start of the ASHRAE Greenville 2010-2011 year. During the summer there was a small shake up in the leadership position. Manuel del Valle, the president-elect, moved to South America. The Board of Governors thought that commute might make his attendance erratic and elected me, Devon Cortright, to serve as president until elections can be held in September. At this point in time I am the only one on the ballot for the position. Anyone interested in being on the ballot should contact Davin Sandhu.



Devon Cortright
Interim President
president@ashrae4greenville.com

I have served on the board since 2002 as Treasurer and Chairman of the Chapter Technologies Committee (CTTC). I am an engineer at H2L Consulting Engineers, where I design HVAC, plumbing, and fire protections systems. H2L also does a considerable amount of forensic engineering, analyzing building and construction failures for insurance companies and attorneys. In the smaller firms one wears a lot of hats.

Grant Weigman, your president-elect for 2010-2011 and programs chair, is leading the effort to establish speakers for the coming meetings. We still have some open slots and are interested in your opinions and suggestions.

I'd like to thank Davin for leading the chapter in the last year and welcome the new officers. Please review the list of officers for the coming year. Many of the faces and names will be familiar. Some of the new ones are Ryan Tonnsen, Secretary, and Ryan Deter, co-chair on Research Promotion. Also, a request you've heard before, but we are looking for individuals willing to help in the organization and operation of the chapter. It is a great way to develop contacts with some of the sharpest HVAC people in the Greenville area and occasionally we actually enjoy ourselves. We are currently looking for an individual to work with high school and/or college students in this area.

Chapter Administration

The Board of Governors meets once a month. Below is a summary of recent activities:

- Budget established for the coming year. Copy available upon request.
- Roper Mountain Science Center to be primary meeting location, but will require a contract for this year and \$1000 room fee.
- Need to prepare tax return for 2009-2010 year.
- Review of meeting speaker status.

Devon Cortright
Greenville ASHRAE President
president@ashrae4greenville.com

Chapter Programs



Welcome back for another year of ASHRAE sponsored programs. My name is Grant Wiegmann and I am the new Programs Chair of the Greenville ASHRAE Chapter for 2010-2011. My goal as your programs chair is to prepare a schedule of programs that are interesting, informative, and apply to today's changing industry.

So far we have selected three of the nine presentations this year and have plenty of ideas to fill the rest of the sessions. However, please send me your suggestions and I will gladly try to introduce them into our schedule. So far this year we plan on covering some of the following topics: Building Air Leakage, legal issues facing our business, and the latest in IBC Codes. We are also considering touring the Bi-Lo Center and/or Hubble Lighting headquarters.

Our first meeting is a re-schedule from the May 2010 meeting, and will cover Air Leakage in Buildings. Our very own Rodney Hinton will be presenting on the topic of "Controlling Air Leakage in Tall Buildings." This is a relatively new topic for most of us, but one that we will need to become more familiar with in the next few years.

Grant Wiegmann
Programs Chair
programs@ashrae4greenville.com

Membership Corner

Well it's that time again ~ ASHRAE Greenville has been working hard in the off season and most recently learning from our counterparts in the Region at the yearly CRC Meeting held the beginning of August. Thanks to all who took the time to attend.

A little bit about ASHRAE: 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.



We would like to thank all members who recently joined via a Membership Promotion Meeting, a transfer in, or just the desire to be a Member, we appreciate your support. We also look forward to welcoming back our existing members, and those who serve on the board...we could not do this without everyone's participation.

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.

Existing MEMBERS – Ask Me about Upgrading your Membership by going online to www.ASHRAE.org to update and complete your BIO...this process will automatically upgrade your membership based on the information that you supply...it's quick and it's easy ~ After all it's 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.

Just a reminder: Chapter Members in good standing (paid dues) **\$10.00** per meeting – lunch included.
Non-Chapter Members \$15.00 per meeting – lunch included

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

Chapter Technology Transfer

For the near future Grant Weigman and I will be sharing the responsibilities of Chapter Technologies Transfer.

Congratulations to Bill Knight for winning first place in the Region IV Technology Award category for Institutional Buildings. Bill shares the award with his partner in this project, Brandt Williams of the North Piedmont ASHRAE Chapter. Bill and Brandt's project highlighted energy efficiency improvements made at the Greenview Child Development Center. The project involved the renovation of an existing elementary school to serve as a center for toddlers thru K4. The project involved the optimizing of existing central systems equipment, the installation of new stacked dehumidification air handlers and meeting the requirements of 62.1-2004 using Air Quality Procedure in lieu of the more commonly applied Ventilation Rate Procedure.



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

The following additional Technology Awards were also presented:

First Place: Commercial Buildings (Existing) David Crutchfield, PE, Downtown Spartanburg Memorial Airport - Spartanburg, SC

Second Place: Institutional Buildings (Existing) Seth Spangler, Irmo Elementary - Irmo, SC

First Place: Healthcare Facilities (Existing) Craig Buck, PE, Children's Hospital Pharmacy Renovation - Charleston, SC

First Place: Industrial Facilities or Processes (Existing) Donald Zimmerman III, Athletic Village Infrastructure Development - Columbia, SC

First Place: Public Assembly Tim Gasper, North Carolina Museum of Art - Raleigh, NC

Second Place: Public Assembly Craig Buck, PE, Student Recreation and Convocation Center - Conway, SC

First Place: Residential (New) Donald Zimmerman III, Hilton Head Beach House - Hilton Head, SC

From the Lessons Learned Category

One of the items incorporated in Bill and Brandt's design is a buffer tank in the chilled water system. This is a frequently overlooked item in the design of small to medium size chilled water systems. The chiller manufacturers require a minimum volume of chilled water – and sometimes hot water – in the system to prevent the chiller controls from short cycling. This is frequently referred to as the amount of time it takes a gallon of water to work its way around the loop and back to the chiller. The minimum time varies from manufacturer to manufacturer, but is frequently in the range of 10 to 15 minutes. When designing small chilled water systems check to make sure there is enough water volume in the system for the controls to have adequate time to respond to changes in system temperature.

Tentative Energy Code Seminar

Greenville County Codes Enforcement is setting up a training class on the International Energy Code and would like to know if ASHRAE members are interested in attending. Planning is in the preliminary stages, so dates, times, and cost is tentative. The date is October 21 with the class repeated on October 26. The South Carolina Energy Office will be providing instructors and materials and attendance will be worth 6 pdh's. Tentative location is Greenville Tech with cost currently defined as "minimal". County Codes Enforcement is trying to determine the interest level in this area. Please contact me if you are interested in attending.

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

Tentative Event Dates for 2010-2011

Thursday 09/09/2010	September Chapter Meeting: Building Leakage & Testing	Presenter: Rodney Hinton
Thursday 10/14/2010	October Chapter Meeting: Legal Issues	Presenter: Ward Lambert
Thursday 11/11/2010	November Chapter Meeting:	Presenter:
Thursday 12/09/2010	December Chapter Meeting: IBC Codes	Presenter: Dennis Knight
Thursday 01/13/2011	January Chapter Meeting:	Presenter:
Thursday 02/10/2011	February Chapter Meeting:	Presenter:
Wednesday 03/10/2011	March Chapter Meeting:	Presenter:
Thursday 04/14/2011	April Chapter Meeting:	Presenter:
Thursday ?	ASHRAE Golf Tournament	
?	ASHRAE Webcast:	
Thursday 05/12/2011	May Chapter Meeting:	Presenter:



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