



# *Giga-Joule*

Greenville Chapter

December, 2011

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

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## *Meeting Announcement*

The December meeting will be held on Thursday, December 8th 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](mailto:secretary@ashrae4greenville.com)

## *A Message from the President*

I hope everyone had a safe, relaxing, and family-filled time over the Thanksgiving Holiday! Thanks to our speaker last month, Brian Rivet, for making the trip to Greenville to give us a good presentation on Variable Volume Kitchen Application/Design. The evaluations scored very well.

As mentioned in our last Chapter Meeting, the first official Clemson Student Chapter Meeting was a great success. We had nearly 30 people attend, including students, faculty, Greenville Chapter Members, and Ron Jarnigan (ASHRAE Society President). A big thanks is in order to all the students, Dr. Richard Miller (Faculty Advisor), and Daniel Lowe (our Student Activities Chair) for putting the evening together. On a related note, the Student Chapter is having their 2<sup>nd</sup> Chapter Meeting on Wednesday, November 30<sup>th</sup> at the Fluor Daniel Building. Chuck Weaver will be the speaker, and he will be discussing what the HVAC industry has done for him the past 30 years, and also speaking on VAV boxes and individual temperature control.

The golf tournament, though small in number of teams, did very well! The Chapter raised \$4,300, all of which will be donated to RP. Thank you to all who participated and helped put it together, and thank you to our sponsors. Stay tuned for more details about our spring golf tournament.

This month's presentation promises to be a good one with a Wireless Communication in control systems. Please see the Programs section below for more details.

**Grant Wiegmann**  
Chapter President  
[president@ashrae4greenville.com](mailto:president@ashrae4greenville.com)



## Membership Corner

Thank you to all new and returning Members who attended last month's meeting. This month will be our last meeting before the Christmas Holiday ~ Merry Christmas to all, be safe and enjoy your time with family and friends.

### ***Tis the SEASON to JOIN ASHRAE ~ Greenville Chapter***

**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](http://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](mailto: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](http://www.ashrae.org) and sign up or encourage your colleagues by sharing with them why you are a member.

Merry Christmas and Happy New Year!

**Dorothy Bertolini**

**Membership Chair – ASHRAE Greenville SC**

[membership@ashrae4greenville.com](mailto: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 "Wireless Controls." Please RSVP so that we can make arrangements to have the appropriate amount of food available.

### *December Meeting*

**Program: Wireless Controls**

**Mark A. Zip, LEED AP  
Regional Product Account Manager – Southeast  
Johnson Controls, Inc.**

Mr. Zip has an engineering degree from Florida State University and has been with JCI for 8+ years in several different positions. He currently holds the role of Regional Account Manager - Systems Products and supports the JCI Branch organization with product technology. This presentation will be on the emerging use of wireless technology for building automation systems in comparison to traditionally wired systems.

**Location:** Roper Mountain Science Center ([www.ropermountain.org](http://www.ropermountain.org))

**Date:** Thursday, December 8, 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](mailto:secretary@ASHRAE4greenville.com)  
No later than Noon Tuesday, December 6, 2011**

# Chapter Technology Transfer

## Energy Audits

ASHRAE recently announced the publication of the second edition of “Procedures for Commercial Building Energy Audits.” The document promotes best practices, provides “how-to’s” and fills a void in available information for engineers, building owners, managers and government entities. The new publication includes time-saving tips for energy auditors, how to hire an auditor, what to ask for in a comprehensive audit report and how to build a successful energy efficiency retrofit team. Another benefit of the new publication is a greatly expanded section of forms and template analyses, including “live” Excel spreadsheets, checklists and equipment-specific forms suitable for field collection of detailed commercial building data, to name just a few. “Procedures for Commercial Building Energy Audits, Second Edition” is available in the ASHRAE bookstore, [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore), \$84 for members, \$99 nonmembers.



**Devon Cortright PE**  
**Chapter Technology**  
**Transfer Chairman**  
[ctt@ashrae4greenville.com](mailto:ctt@ashrae4greenville.com)

## Advanced Energy Design Guides

How many of the Advanced Energy Design Guides do you have? Since their initial introduction the series has expanded to a total of eight with more in pipeline. There are six guides in the 30% series including: Small Office, Small Retail, K-12 Schools, Warehouses, Highway Lodging, and Healthcare. There are two guides published to date in the 50% series including: Small to Medium Office Buildings and K-12 School Buildings. Two additional 50% guides are planned for publication in 2012; Medium to Big Box Retail due in January and Large Hospitals in May. The Advanced Energy Design Guides are simple to use and best of all they are free to ASHRAE members. Use the link below and sign in to download your pdf copy.  
<http://www.ashrae.org/publications/page/FreeAEDG>

## Energy in Existing Buildings

There have been two articles published recently on energy efficiency improvements in buildings in New York City. One, the famous Empire State Building recently landed a LEED Gold for Existing Building Rating. The “Green” improvements were included as part of a 550 million dollar upgrade that reduced energy use by 38%.

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

## 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: Brian Rivet
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**