



Giga-Joule

Greenville Chapter

January, 2012

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

Meeting Announcement

The December meeting will be held on Thursday, January 12th 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

Happy New Year Everyone. I hope everybody had a safe and enjoyable time over the Christmas Holiday! Thanks to everyone who came to our December meeting where our topic was Wireless Controls, and a special thanks to Mark Zip who traveled here from Charleston to give us the presentation. The meeting was very well attended. We're going back to the ASHRAE Standards with our next topic, IAQ Method of 62.1, so be sure to put that on your calendars.



It was discussed during our last Board meeting how the Chapter has been losing (be it a small amount) money the past few months on our Chapter Meetings when you consider the cost of renting the space and the food. The reasons being are higher food costs, attendance numbers being short of RSVP numbers, and the fact that Board of Governor members attend the program for free. It's been a tradition to let the Board of Governor's attend the program and eat for free as a token for volunteering on the Board. However we had a vote last month in our Board meeting to start charging half price (\$5) to our BOG members for Chapter Meetings. We are hoping this will get our Chapter Meetings back in the black.

A small programming note – we are moving March's meeting (George McCall on Smoke Evacuation Systems) to April, and we are most likely doing a Clemson ICAR meeting/tour in March. More to follow on that.

As a final thought, we are full steam ahead on planning our Chapter Regional Conference (CRC) that our Chapter is hosting this August. Please let Brandt Williams (CRC Chair) or myself know if you would like to be involved or have any suggestions.

Grant Wiegmann
Chapter President
president@ashrae4greenville.com

Membership Corner

Happy New Year from your friends and colleagues of the Greenville Chapter of 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, showed up at a monthly meeting, or were invited by a friend to become 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.

Be on the lookout for our next Membership Promotion Meeting (SPRING) the format is generally 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.

NOTE to ALL existing members wishing to Upgrade your ASHRAE Membership YOU 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.

ALSO...Save the dates August 2-4th 2012 the annual ASHRAE CRC Regional Meeting will be hosted right here in Greenville ~ tons of great programs, great people from the surrounding region, golf, and socials will complete this weekend that you truly do not want to miss. We are currently seeking volunteers from the Greenville Chapter to assist in any capacity – if you are interested please see me or email me.

We have some exciting programs planned for 2012...make sure that you RSVP as soon as possible so that we can save you a seat.

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 "Wireless Controls." Please RSVP so that we can make arrangements to have the appropriate amount of food available.

January Meeting

Program: Reduce outside air, save energy, meet code, and improve IAQ

Charlie Waddell

CHARLIE WADDELL, IS THE PRESIDENT OF GLOBAL PLASMA SOLUTIONS, A SAVANNAH, GA BASED AIR PURIFICATION COMPANY THAT SPECIALIZES IN EDUCATION AND HEALTHCARE AIR QUALITY AND ENERGY SAVING SOLUTIONS. MR. WADDELL IS ALSO THE GENERAL MANAGER OF DESICCANT ROTORS INTERNATIONAL, INC., THE LARGEST MANUFACTURER OF 3A AHRI CERTIFIED ROTORS, WORLDWIDE. MR. WADDELL'S EXPERIENCE INCLUDES DESIGNING MECHANICAL, ELECTRICAL, REFRIGERATION AND CONTROL SYSTEMS IN THE COMMERCIAL AND INDUSTRIAL HVAC MARKETS AND HAS SEVERAL PATENTS PENDING FOR VARIOUS AIR PURIFICATION SYSTEMS AND APPLICATIONS. PRIOR TO STARTING GLOBAL PLASMA SOLUTIONS AND JOINING DESICCANT ROTORS INTERNATIONAL, MR. WADDELL WAS THE EXECUTIVE VICE PRESIDENT OF BIOCLIMATIC AIR SYSTEMS, A SALES MANAGER FOR DES CHAMPS TECHNOLOGIES (NOW MUNTERS) AND AN ELECTRICAL ENGINEER FOR SIEMENS MEDICAL. MR. WADDELL HOLDS A BSEE AND BSEM FROM OLD DOMINION UNIVERSITY, NORFOLK, VA.

MR. WADDELL IS A MEMBER OF ASHRAE, THE SECRETARY ON ASRHAE TC 8.12 AND IS ALSO A MEMBER OF THE INTERNATIONAL CODE COUNCIL. MOST RECENTLY, AN ARTICLE MR. WADDELL CO-WROTE WAS PUBLISHED IN THE JUNE 2011 EDITION OF ENGINEERED SYSTEMS MAGAZINE.

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

Date: Thursday, January 12, 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, January 10, 2011**

Chapter Technology Transfer

CTTC

Whole Building Design Guide

While attempting to catch up on some technical reading I discovered a link in the ASHRAE Journal to the Whole Building Design Guide (WBDG). The site provides links and information on a wide variety of building related products. My visit to the site revealed a surprisingly diverse collection of tools, articles, and links associated with building construction and operation. The drawback, in my opinion, is the site is difficult to navigate. To reduce some of the wandering the link below takes one to a page with the following tools:

- Condensation Control Calculator for Horizontal Pipe
- Mechanical Insulation Financial Calculator
- Estimate Freezing Time for Water in Insulated Pipe
- Temperature Drop Calculator for Air Ducts
- Temperature Drop for Hydronic Piping

<http://www.wbdg.org/design/midg.php>

Energy Plus Version 7

From the Government Affairs Newsletter:

The U.S. Department of Energy (DOE) recently released the latest version of its building energy modeling software EnergyPlus, which calculates the energy required to heat, cool, ventilate, and light a building. Advanced physics calculations within EnergyPlus allow it to model a wide range of residential and commercial buildings and HVAC system types, including passive building designs and low-energy systems.

EnergyPlus v7.0 features many enhancements and has 25 to 40 percent faster execution speeds on a wide variety of models. EnergyPlus is a part of DOE's strategy of Building Energy Modeling (BEM), a key technology that helps achieve DOE's mission of significantly reducing energy consumption in new buildings and retrofits. EnergyPlus v7.0 is available free of charge for Windows, Mac OS, and Linux. Source code licenses are also available. For additional information, please see the DOE press release.

<http://apps1.eere.energy.gov/buildings/energyplus/>

I am not familiar with Energy Plus and am interested in feedback from someone in the Chapter that has used it and/or DOE-2.

Winter Conference – Virtual Attendance

It will be possible to view the technical programs at the Winter Conference virtually. Access to 250 technical presentations is available via Virtual Conference registration. The materials will be available until May 2013 to those registered. Go to <http://www.ashrae.org/events/page/virtualconference> for information.

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

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: Underfloor Air Distribution & ICAR Tour	Presenter: Ghassan Elkhatib
Thursday 04/12/2012	April Chapter Meeting: Smoke Evacuation Systems	Presenter: George McCall
?	ASHRAE Golf Tournament	
Thursday 05/10/2012	May Chapter Meeting: Retro-commissioning	Presenter: Roy H Bohanon ASHRAE Distinguished Lecturer



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Region IV
Greenville Chapter