



Giga-Joule

Greenville
Chapter of
ASHRAE

January 2005

Meeting Announcement

This month's meeting will be held on Tuesday, **January 18, 2004 from 11:30 AM to 1:00 PM** at the **Roper Mountain Science Center** located at the intersection of I-385 and Roper Mountain Road. For directions, please contact Programs Chairman, James Bryan, (864-298-2148, programs@ashrae4greenville.com) or visit <http://www.ropermountain.org>.

Message from the President

Happy New Year to all of the Greenville Chapter! I certainly hope you are fully recovered from the Holiday Season. The first half of the 2004-2005 year has been very successful for the Greenville Chapter. We closed out 2004 on a fantastic note with Chris Edmondson schooling us on the problems with boiler operations. Chris is always a huge draw for us when he speaks, but he really outdid himself in December. He garnered the only perfect score I have ever seen on the program evaluations.



Thanks to all members and guests who attended our fall meetings. We have a full schedule of meetings coming this spring. Your Greenville Board of Governors is working hard to earn a valued spot on your monthly calendar. If you check out the last page of this newsletter you will see we have programs planned on Mechanical Room design, Proper Insulation, Clean Rooms, Ammonia Refrigeration, and Mold Growth.

Special thanks go out to our Treasurer, Devon Cortright, for his perseverance in trying to influence the code publishing authorities. He has written an article on the submission and review of code changes which I have included in this issue. I will second his call to arms on this issue. We all are influenced by the codes. Don't accept that new silly revision lying down, voice your opinion!

As we are half way through the year, let me repeat my thanks to all the officers and chairmen of the Greenville Chapter. Your gifts of time and effort on behalf of the chapter are greatly appreciated. Now as we move towards the next ASHRAE year, it is time to recruit some additions to our leadership for the upcoming year. I hope you all will consider giving a little of your time in the service of our chapter. Your service will not only benefit the chapter, but it will be personally rewarding beyond your wildest expectations.

If you have any questions or comments, please feel free to contact me.

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

Chapter Programs



I hope everyone had a terrific holiday season. What a great meeting in December. Thank you, Chris Edmondson. We had 35 people attend our meeting with an average rating of 100! The topic was appropriate since many folks shared similar experiences. These meetings are a great learning arena for younger and seasoned professionals. Encourage others to attend our meetings.

This month we are pleased to have Mr. Thomas Watson from Virginia speak on ASHRAE Standard 15. Our presenter, Mr. Thomas Watson, is a chief engineer with McQuay International at their Staunton, Virginia Facility with over 30 years experience with chillers. He has been a staunch supporter of ASHRAE serving in an amazing number of roles including:

- Member and Former Chair of ASHRAE SSPC -15 Safety Code for Mechanical Refrigeration, 11/90 - Present
- Former Member of ASHRAE SPC - 34 Number Designation and Safety Classification of Refrigerants
- Previous Chair of ASHRAE Standards Committee, 07/02 – 07/03
- Member of ASHRAE Standards Committee, 1996 - 2003
- Former Chair and member of ASHRAE TC3.1 Refrigerants and Secondary Coolants, 1999 - 2001
- Member of TC 8.2 – Centrifugal Machines, 1972 – Present
- Member of TC 1.11 – Electric Motors and Motor Control, Present
- Member of ASHRAE Standards Appeals Panel, Present
- Past Chair of ARI 550/590 Engineering Committee for Liquid Chillers. Member of 550/590 since 1975
- Chair of the ARTI 21-CR Research Committee, Present
- Member of ASHRAE Journal & Insights Committee, 7/03 – 6/04
- Member of ISO WG-9- Liquid-Chilling Packages Using the Vapor Compression Cycle – Testing and Performance, 1999 to Present
- Member ASHRAE Publication & Education Council, Present
- ASHRAE Board of Directors, Member - Director-at-Large, Present

Tom Watson has a wealth of experience and has been very generous with his time serving our industry. In recognition of this service, he has been awarded:

- R.C. Schulze Distinguished Service Award for 2000 from ARI
- ASHRAE Distinguished Service Award – 2002
- ASHRAE Standards Achievement Award – 2004

Program: *The Successful Application of ANSI/ASHRAE Standard 15 – 2004
Standard for Refrigeration Systems*

Presenter: **Thomas Watson, P.E.**
ASHRAE Director-at-Large

Location: Roper Mountain Science Center (see front page for directions)

Date: Tuesday, January 18, 2005

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!**

Education Credit: This program qualifies for 1.0 PDH

James Bryan PE
Programs Chairman

Please RSVP to programs@ashrae4greenville.com by Thursday, January 13, 2005

Membership Corner

Attendees at the December meeting were:

Steve Abernathy, Chip Allison, Eddie Arledge, James Bryan, Shane Bulman, Bill Carnes, Devon Cortright, Karl Counts, Jeremy Galloway, Rodney Hinton, Barry Jones, Bill Knight, Bob Speer, Carol Suttles, Mike Cromer, Ray Putman, Drew Evans, Jason Thomas, Jim Cree, Bob Leake, Patrick Leake, Jeff Lindsey, Steve Martin, Jay McCutcheon, Mark McKay, Bill Neel, Dennis O'Keefe, Gary Osteen, Jim Reeves, Rob Rettew, James Ridenhour, Mark Schnetzka, Eric Scott, and Mark Speck.

Next month's (February) meeting will be our second Membership Promotion meeting. Bring a guest who fills out an application and your meeting is Free!

Applications can be obtained online, at our regular meetings, or by giving me a call at (864) 233-7966.

Caroll Suttles
Membership Chairman

Technology, Energy, & Government Activities

Technology Awards

Know of an innovative project that may be award worthy? If so, submit it for an ASHRAE Technology Award. Contact me or visit: <http://www.ashrae.org/standcom/tegaward.htm> for forms and more information. Then proceed as follows:

- Complete the "Short Form" and use it as the cover page.
- Provide a system schematic/diagram not larger than 11" x 17" in size. In addition, attach a brief narrative (maximum of 2 pages). The narrative should include the gross and net building areas applicable to the project, a description of the major building areas (i.e., operating rooms, laboratories, computer rooms, industrial processes, offices, warehouses) and a brief discussion regarding the following five criteria (if a criterion is not applicable, state accordingly):
 - Energy Efficiency
 - Indoor Air Quality
 - Innovation
 - Operation & Maintenance
 - Cost Effectiveness
- Submit your schematic, brief narrative, and completed form to me for judging at the Chapter level.

Applicants will receive recognition and have the chance to advance to Regional & Society level competition.

Jamie Porterfield
CTT (Chapter Technology Transfer Chairman)

Getting Involved with the Changing Codes

The International Code Council mailed me a copy of "Proposed Changes to the 2003 Editions of the International Building Code." The two volume document contains the text of the proposed changes to the 2003 International Building Codes as submitted by well, virtually anyone. My one experience (proposing a code change) does not make me an expert, only less ignorant than I was previously. These latest proposed changes will be reviewed in the Public Hearings to be held in late February in Cincinnati. At the public hearings, the committees will listen to short arguments, both pro and con, and make recommendations on the proposed changes. If the proposed change survives the committee vote, and only a minority of those proposed do, it will be reviewed again at the "Final Action Hearings" scheduled for September 2005.

So what? Ultimately our livelihoods are governed by these proposals and the results of the associated hearings. Granted, many of the proposed changes deal with only minor changes of text and have little apparent impact on the code, but there is more. There are suggested changes on window and wall insulation values, clothes dryer exhaust, mandatory building pressurization control, and grease interceptor sizing to name a few. Many of the suggested changes are authored by code officials and representatives of various "energy institutes". Another source of proposed changes is an individual with manufacturers or manufacturers' associations.

The results of the February public hearing will be published by the ICC by May 2, 2005. Those proposed changes that survive Public Hearing are open to public comment until June 17, 2005. Written comments can be submitted to the ICC for publication and consideration at the "Final Action Hearings" in September 2005. An electronic version of the paper monster that I received in the mail can be downloaded via the link listed below. It is subdivided and can be downloaded in sections. Anyone that elects to go through the proposed changes in its entirety needs to find a more personal hobby. I am asking only that you consider downloading a portion of the code that interests you and follow it through the submittal process. If it survives the Public Hearings in February consider submitting a comment to ICC. Instructions for submitting comments are available via a link on the same web page as the download. The first step in being heard is to speak up!

<http://www.iccsafe.org/cs/codes/2004-05cycle/ProposedChanges/index.html>

Devon Cortwright
Treasurer

Resource Promotion

I want to personally thank those individual and corporate sponsors who accepted their recognition coins and plaques for the 2003-2004 Resource Promotion fund raising campaign at last month's meeting. It's important to show the membership who you are and that you care enough about our industry to invest in it.

I would ask that the membership help support those contractors, architects, engineers and vendors, past and present, which have supported Resource Promotion, by making your purchases through them. To that end, I'm listing Corporate Sponsors to the Greenville Chapter for the last 5 years as follows:

Accufflo Services Incorporated
Carrier Building Systems & Services
Carrier Corporation
The Copy Spot, Inc.
Devita & Associates, Inc.
Duke Energy Corporation
Duke Power Co.
Energy Engineering, Inc.
Hahn Mason Air Systems
Harris Sales & Service, Inc.
Hefco LLC
Invesys Building Systems
James M. Pleasants Co.
Johnson Controls Inc.

Leblanc Welch Inc.
Marshall Clarke Architects, Inc.
Miller Engineering Inc.
Palmetto Air & Water Balance, Inc.
Peritus Engineers & Associates, Inc.
Piedmont Natural Gas
R. L. Kunz, Inc.
Sanders Brothers, Inc.
Sonopress
Trane
United Engineering Group
Wade Crow Engineering
Waldrop Heating & Air Conditioning
York International

Individual sponsors for the 2003–2004 Resource Promotion campaign donations above \$100 include:

Edwin W Evans
Ryan M McCleary
Karl F Counts
Ronnie D Hackett
Patrick R Leake
Devon D Cortright
Kenneth L Clark
Phillip W Scoggins
Adolph Beyerlein

Robert Livingston Craft
Frederick H Allison
James W Bryan
Michael Ray Pitts
Rondal Sharpe
T Minh Tran
Furman L Capps
Danny R Atkinson

I'll be listing individual sponsors over \$100 for the 2004-2005 Resource Promotion campaign in the February newsletter. Remember that this also gets your name in the October ASHRAE Journal issue. Hope to see your name there.

And as always, if anyone has any ideas on fundraising events that we could apply to this Chapter please see me after the meeting. Thanks!

Dennis O'Keefe
Resource Promotion Committee Chairman

Greenville Chapter ASHRAE

2004-2005 Chapter Officers

Office	Officer	Company	Phone	Fax	email
President	Karl Counts	Maddox Engineering	250-2143	233-8460	president@ashrae4greenville.com
Programs/ VP	James Bryan	O'Neal, Inc.	298-2148	298-6330	programs@ashrae4greenville.com
Secretary	Karl Counts	Maddox Engineering	250-2143	233-8460	president@ashrae4greenville.com
Treasurer	Devon Cortright	H2L	233-8844	232-2679	dcortright@h2l.com
Membership	Caroll Suttles	Piedmont Natural Gas	233-7966	233-6104	membership@ashrae4greenville.com
Resource Prom.	Dennis O'Keefe	Piedmont Natural Gas	250-2822	250-0585	resourceProm@ashrae4greenville.com
CTT	Jamie Porterfield	Waldrop Heating & Air			ctt@ashrae4greenville.com
Historian	Steve Abernathy	Piedmont Natural Gas	233-7966	233-6104	history@ashrae4greenville.com
Webmaster	Karl Counts	Maddox Engineering	250-2143	233-8460	president@ashrae4greenville.com

Tentative Meeting Dates for 2004-2005

Mon 9/27/2004	Constant Volume Zoning Applications and Design	Jeff Swiderski, Carrier Controls
Tues 10/19/2004	Water-Cooled Vert. Self-Contained DX Applications Facility Tour: Poinsett Plaza (by Doug Black)	Paul Jensen, Trane Company
Tues 11/23/2004	10 Important Changes to the 2003 IMC	Tony Longino, Chief Mechanical Inspector
Tues 12/14/2003	Is It Raining In Your Boiler?	Chris Edmondson PE, James M Pleasants
Tues 1/18/2004	Application of ASHRAE Standard 15	Tom Watson PE, McQuay International
Tues 2/15/2004	HVAC Insulation, One Key to a Healthy Building	Glenn Brower, Knauf Insulation
Tues 3/8/2004	Joint Meeting with Mechanical Contractors Asso.	TBD
Tues 3/15/2004	Ammonia Refrigeration Design and Application Facility Tour: Sara Lee	TBD
Wed 4/13/2004	ASHRAE Satellite Broadcast on Mold	TBD
Tues 4/19/2004	TBD	TBD
Tues 5/17/2004	Cleanrooms for Pharmaceutical/Biological Facilities	Manuel Del Valle PE, Fluor



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Technology for a Better Environment