Meeting Announcement

This month's meeting will be held on **Tuesday, November 15, 2005, from 11:30 a.m. to 1:00 p.m.** at the **Roper Mountain Science Center** located at the intersection of I-385 and Roper Mountain Road. For directions, please contact Programs Chairman, Eric Scott, by phone at (864) 232-6633 x21, email at programs@ashrae4greenville.com or by visiting http://www.ropermountain.org.

A Message from the President

The Greenville chapter would like to thank Chris Edmondson for another wonderful presentation of water-source heat pumps. We had a very good turnout. Chris also mentioned some great points which I've elaborated on regarding ASHRAE involvement at the National (Society) level. 1. How do you get involved in ASHRAE Technical Committees (TCs)? First, you should attend ASHRAE Winter and Summer Meetings. Then, volunteer with the manager, research and technical services of the committees you're interested in serving. Last, you will need to update your current Biographical Record Form. Visit www.ashrae.org and use the "Technical Committees" shortcut on the upper right hand window pull down to review committees and download forms.

2. Energy and Environment - these are two of the main points regarding LEED certification as well as ASHRAE technological advancements. I recently received an ASHRAE Research Strategic Plan over the next 5 years (2005-2010) titled "Navigation for a Sustainable Future". The full plan can be downloaded from the following website: www.ashrae.org/research. Several of the issues discussed are Energy and Resources; Indoor Environmental Quality; Tools and Applications; Equipment, Components and Materials; and Education and Outreach. With an ever-changing marketplace, this strategic plan is a great tool to assist and plan for your sustainability. Twelve (12) research projects ready to bid request for proposals (RFPs) are also available at the ASHRAE Research webpage mentioned above.

The date of **Friday, April 21, 2006**, with a noon shotgun start will be the **Spring Golf Tournament**. Please plan accordingly now.

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

James Bryan PE  
Greenville ASHRAE President  
president@ashrae4greenville.com
Chapter Programs

Program: Controls Protocols and Interpretation

a) Acronyms in the IT/IP world and what they mean to us.
b) Protocols – Myths and Monsters. A realistic view of the different protocols in the HVAC-R controls and building management industry and what the differences are, features and limitations.
c) Internet and Intranet terms and applications
d) Designing and understanding Web based sequences of operation
e) Web products and solutions available today!

Presenter: Jeff Swiderski

Jeff has a BSE in electronic engineering. His background in DDC control systems began in 1983 with Parker Electronics, where he began designing HVAC DDC system products for many applications. Jeff is currently the president of the Carrier Control Council, which is a group of DDC control engineers from around the world who gather to discuss and direct the engineering efforts of designed products as pertained to market trends and changes.

Location: Roper Mountain Science Center - Auditorium
(See front page for directions)

Date: Tuesday, November 15, 2005

Schedule:
11:30 a.m. Doors Open
11:35 a.m. Lunch served
11:50 a.m. to 12:00 p.m. Chapter Business
12:00 p.m. to 1:00 p.m. Main Program

Cost: $10/person - Lunch is included & guests are welcome

Education: This program qualifies for 1.0 PDH credit.

Eric Scott
Programs Chairman

RSVP REQUIRED TO ENSURE LUNCH
Please reply to programs@ashrae4greenville.com no later than Friday, November 11th.
Research Promotion

Research Promotion News - Dennis O’Keefe, RP Chairman

Well, we got our first RP fund raising event under our belt, the Fall ASHRAE Golf Outing, held Tuesday, October 11th, at Willow Creek Golf Club. Turnout was, well poor, only 25, but we managed to have a good time and I made sure that we didn’t run out of beer. That required an extra road trip for one last case of Coors light. The goal is to raise money and despite the turnout, we received $900 in hole sponsors and almost another $100 in profit. I’d like to thank the following for their support:

Bill Knight
Caviness Lambert Engineering
Hahn-Mason Air Systems

James M. Pleasants Co.
Johnson Controls
Piedmont Natural Gas

“Closest To The Pin” went to Bill Bowers, and Will Thomason got “Longest Drive”. “Longest Drive” was contested by Bill Knight, who claimed that he flew over the green. It was a short hole but you had to be in the fairway to win. First place went to the team of Bill Bowers, Buddy Bowers, Terry Kennemore and Jamie Porterfield.

I got a lot of feedback about having a golf outing on Friday afternoon, so this spring there will be no reason not to come as we have picked Friday, April 21, 2006. Mark your calendars now. I expect to fill the place up.

Golf course will be announced as soon as we find out who can give us the best deal. This will be our last fundraising effort of 2005-2006 so I’m counting on our proud sponsors to fill up the course with sponsorship signs. And please make sponsorship checks out directly to ASHRAE Research Promotion (not to an individual). If you or your company can sponsor the event let me know.

I want to thank all of you who have worked for and contributed to Resource Promotion in the past. We’ll be having an RP night in November to recognize individual donors ($50 and up) and companies ($150 and up) who have helped make ASHRAE what it is today.

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
Research Promotion Chairman
Membership Corner

Attendance at the full September seminar were Wade Crow, Jeff Mitchell, Kyle Loseke, Casey Lynn, Peter Henn, Devon Cortright, Robert Carter, Chip Allison, Jeff Redderson, Raymond Kuhne, Bill Sykes, Eric Scott, Jim Reeves, John Powell, Brent Abbott, and Paul Jensen.

Attendees at the lunch September meeting were those listed above plus John Bindewald, Lee Capps, Karl Counts, Bob Dendy, Clint Hunter, Bill Knight, Greg Kyzer, Jay McCutcheon, Dennis O'Keefe, Jody Parker, Billy Austin, Mark Rosenfeld, Mark Schnetzka, Jerry McAulieke, and Chris Adams.

Attendees at the October meeting were Manuel del Valle, Jim Ridenhour, Will Thomason, Bob Leake, Harry King, Bill Knight, Eric Scott, Joe Cain, Walter Tuttle, Caroll Suttles, Bob Speer, Devon Cortright, Ron Brewton, Karl Counts, Dennis O'Keefe, Chip Allison, Graham Fizer, Rodney Hinton, John Adams, Jay McCutcheon, Keith Mattison, Greg Kyzer, James Bryan, Doug Peterson, Robert Carter, James McCarter, Jody Parker, John Bindewald and Jeff Mitchell.

New member applications can be obtained at our regular meetings or call me at (864) 233-7966.

Caroll Suttles  
Membership Chairman

Happenings in Society

ONLINE SEMINAR – EARN CEUs from your Desktop

Introduction to Green Buildings and Sustainable Construction - October 20, 2005 - This course will present the basic principles related to sustainable construction and green buildings. Included in the course will be a review of the integrated approach to buildings and systems necessary to achieve green/sustainable buildings, developments, and projects.

Complying with Requirements of ASHRAE Standard 62.1-2004 - October 26, 2005 - ASHRAE Standard 62.1-2004 Ventilation for Acceptable Indoor Air Quality contains many changes from previous versions. The new standard incorporates more than 15 recent addenda. For more information you may visit the following link
http://www.ashrae.org/templates/AssetDetail?assetID=44511
ASHRAE Releases Proposed Cabin Air Standard for Public Comment

ATLANTA – A proposed standard that will define air quality and comfort levels on airplanes has moved one step closer to publication. ASHRAE’s proposed standard 161P, Air Quality within Commercial Aircraft, is open for public comment until Nov. 7, 2005. Also open for review until that date is the proposed companion guideline to the standard, Guideline 28P, Air Quality Within Commercial Aircraft. It provides supplemental information on air quality in air-carrier aircraft and on measurement and testing related to aircraft air quality. The proposed standard would apply to commercial passenger air-carrier aircraft carrying 20 or more passengers. It is intended to apply to all phases of flight operations and to ground operations whenever the aircraft is occupied by passengers or crew members. No such standard encompassing ventilation, thermal comfort and filtration currently exists for aircraft.

“The environment aboard commercial aircraft is different than that found in other spaces commonly occupied by people,” Byron Jones, Ph.D., chair of the 161 committee, said. “While aircraft are operated with the comfort of passengers and crew in mind, their safety and health must always be paramount.” Among the reasons aircraft cabin environments are unique are occupant activity levels range from almost completely sedentary (passengers) to active (flight attendants); passengers and crew make up a wide cross section of the general population; and aircraft must be regarded as both a public place (passengers) and a workplace (crew).

The proposed standard requires a minimum total air supply of 15 cubic feet per minute (cfm) and recommends 20 cfm per person. The requirement may be met with a mixture of outside air and filtered recirculated air or with 100 percent outside air. A minimum of 7.5 cfm per person of outside air is required. In addition to ventilation requirements, the proposed standard addresses supply air quality and control and monitoring of contaminants to further ensure satisfactory air quality is maintained, according to Jones. Requirements for comfort factors, such as rate of change of cabin pressure, air temperatures and surface temperatures, and minimum and maximum air velocities, also are included.

An informative appendix supplements the requirements of the standard with background information on a variety of potential air contaminants, methods of measurements, references to standards and guidelines of allowable levels, and data for levels measured on aircraft.

Drafts of ASHRAE’s proposed standards and guidelines are available only during their related public review periods. To obtain electronic draft versions of the Standard 161P or Guideline 28 during the comment periods, log on to ASHRAE Online at www.ashrae.org/standards.

ASHRAE Launches Engineering for Sustainability Effort

ATLANTA – The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has launched a new campaign emphasizing its role as “the engineering engine that drives sustainability.”

As part of ASHRAE’s stronger focus on its involvement in green buildings, the Society has introduced a new logo, theme, Engineering for Sustainability, and Website, www.engineeringforsustainability.org. These will be used to identify ASHRAE products and services related to sustainability.
“ASHRAE has long provided ‘engineering for sustainability’ by applying its diverse technology assets to the sustainability movement in energy efficiency, indoor environment and industrial processes,” Ron Jarnagin, chair of a committee developing a roadmap for sustainability for the Society, said. “With growing focus in the industry on the green movement, we need to emphasize that ASHRAE is the engineering engine that drives sustainability.”

Jarnagin noted that the Society’s recent efforts include publishing and working on the Advanced Energy Design Guide series, Standard 90.1, which contains a section guiding designers on how to meet requirements for building rating programs, and the ASHRAE GreenGuide, all part of an ASHRAE green “toolkit.”

Sustainability also is addressed through other standards and special publications, ASHRAE Journal articles, ASHRAE Learning Institute courses and in the ASHRAE Handbook.

User’s Manual Provides Better Understanding of ASHRAE 62.1

ATLANTA – A new user’s manual provides users with a better understanding of the design, installation and operation requirements in ASHRAE’s ventilation standard.

The Standard 62.1 User’s Manual explains the requirements of ANSI/ASHRAE Standard 62.1-2004, Ventilation for Acceptable Indoor Air Quality, and contains numerous examples of their application in an easy-to-follow question and answer format. “Because the standard is written in code-intended language, such material could not be included in the standard itself, so the manual helps users better understand the intent and apply it to their work,” Dennis Stanke, chair of the Standard 62.1 committee, said. “It helps users understand what Standard 62.1 requires and how those requirements can be met. It’s a document that designers have needed for many years and will find useful for many years to come.”

The manual includes a CD containing a spreadsheet to assist in the standard’s new ventilation rate procedure calculations. The manual was developed through ASHRAE research and partially funded by the National Institute of Standards and Technology, the Air-Conditioning and Refrigeration Institute and the U.S. Green Building Council.

The cost of the Standard 62.1 User’s Manual is $55 ($44, ASHRAE members). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, by mail at 1791 Tullie Circle NE, Atlanta, GA 30329, or visit the ASHRAE.org Bookstore at www.ashrae.org.

Jamie Porterfield
CTT (Chapter Technology Transfer) Chairman
Greenville Chapter ASHRAE
2004-2005 Chapter Officers

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Tentative Meeting Dates for 2005-2006

- Tues 9/20/2005 Radiant Cooling Panels Dr. Stanley Mumma PhD, PE; Penn State
- Tues 11/15/2005 Controls Protocols and Interpretation Jeff Swiderski, Carrier Controls
- Tues 12/13/2005 Interpretation of Mold Analysis John McNamara CIAQP, AAA Environmental
- Tues 1/17/2006 Warehouse and Industrial Heating & Make Up Air Jamie Fry, Faulkner/Haynes & Associates
- Tues 2/21/2006 Ductwork for Pharmaceutical/Biological Facilities Manuel Del Valle PE, Fluor
- Tues 3/7/2006 Joint Meeting with Mechanical Contractors Asso. David Hensley, Hosted by GM Mechanical
- Tues 3/21/2006 Natural Gas Piping 101 Steve Abernathy, Piedmont Natural Gas
- Tues 4/18/2006 Understanding Waterhammer in Steam Systems Wayne Kirshner PE

Greenville Chapter of ASHRAE

ASHRAE
Technology for a Better Environment