



Giga-Joule

Greenville
Chapter of
ASHRAE

March 2006

Meeting Announcement

This month's meeting will be held on **Tuesday, March 21, 2006, 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 Manuel Del Valle for his three presentations on Ductwork for Pharmaceutical/Biological Facilities coupled with High Velocity Dust Collection Systems for Potent Compounds. We had a great turnout and another excellent presentation.

National Engineers Week was a success! I hope everyone had a chance to participate. Please let Karl Counts know what activities you or your company performed so we can show our ASHRAE Society how well we support our community.

At this month's meeting we will vote on the election of officers. Committee Chairmen are appointed by the officers and will be announced in April. Listed below are the chapter offices and the nominations from the Nominating Committee:

President - Eric Scott	Governor - Karl Counts
President Elect - Graham Fizer	Governor - Paul Jensen
Vice President - James Bryan	Governor - Bill Knight
Secretary - Scott Houston	
Treasurer - Dennis O'Keefe	



If you or someone you know wants to join ASHRAE, then go to www.ashrae.org and click the quick link on the left side to "Join ASHRAE". You can fill out an application on-line using the interactive Membership Application Form or fill an application out by hand from a printed pdf format.

ASHRAE, founded in 1894, is an international organization of 55,000 persons. It is the world's foremost technical society in the fields of heating, ventilation, air conditioning and refrigeration. Through its meetings, research, standards writing, publishing and continuing education, the Society helps keep indoor environments comfortable and productive, deliver healthy food to consumers and preserve the outdoor environment.

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

James Bryan, P.E.
Greenville ASHRAE President
president@ashrae4greenville.com

Chapter Programs

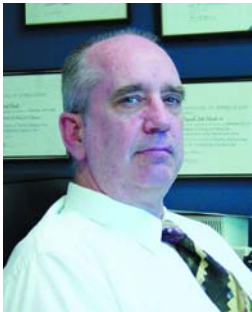
Program: Designing For Occupant Acceptance

In order to meet the increased expectations of building occupants, designers must be aware of the conflicts between first cost economics, occupant productivity and life cycle costs. Buildings that do not meet the needs of the occupants often result in expensive redesign or worse, result in lawsuits against all parties involved. Recent court cases make it imperative that designers understand the changing 'rules' of the road.



- **Air Distribution:** Selecting components and system parameters for effective air mixing.
- **Thermal Comfort:** Determining optimum occupant comfort strategies.
- **Acoustics:** Accurately predicting end use environments.
- **IAQ:** The changing face of ASHRAE Standard 62, and upcoming developments, including Demand Controlled Ventilation.

Presenter: ASHRAE Distinguished Lecturer, Dan Int-Hout III, Chief Engineer, Krueger



Dan is responsible for the presentation of technical data and advanced application engineering for the Grilles, Registers and Diffusers, as well as the VAV air terminals, produced by Krueger. He has been in the Air Distribution research and design business since 1973, and has a Masters in Business Management from Central Michigan Univ., and a Bachelor in Biology & Physics from Denison University. Dan originally joined Krueger in 1981, but has had several other jobs in the industry, including Owens Corning Fiberglas, Carrier, Titus and Environmental Technologies, in engineering, marketing and product research roles.

Dan has written over 30 technical papers and articles on VAV system performance, acoustics, air diffusion, controls and occupant comfort. He was recently Chairman of both ASHRAE Technical and Standards Committees on Thermal Comfort, is a past Chairman of several other related ASHRAE Technical and Standards Committees, as well as ASHRAE Standards & Environmental Health Committees. He received the ASHRAE Distinguished Service Award in 1993. Dan is currently the Chairman of the ARI committee on Applied Acoustics (885) and Chair of ISO 205 US Panel on Thermal Comfort. He is presently a Member of the ASHRAE Technical Activities Committee (TAC).

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

Date: Tuesday, March 21, 2006

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

RSVP: REQUIRED TO ENSURE LUNCH. Please reply to programs@ashrae4greenville.com no later than Friday, March 17th.

Education: This program qualifies for 1.0 PDH (including NC PE as well)

Eric Scott
Programs Chairman
programs@ashrae4greenville.com

Research Promotion - *Spring Golf Tournament!!*



Breakout the new driver you got for Christmas and start practicing! We've got our spring golf outing set for April 28th, at Woodfin Ridge in beautiful Inman, SC. Plan on getting there around 11:00 am, hit a few range balls, and enjoy your box lunch before the noon shotgun start. Price is \$65, which includes golf, range balls, lunch, cart & 2 drink tickets.

I got a lot of feedback about not having the fall golf outing on Friday afternoon, so no excuses this time. Mark your calendars now, tell your friends, coworkers, customers, and anyone who owes you a favor. I expect to fill the place up. Remember people, this is a fundraiser, so rather than play with the ASHRAE members that you always play with, be responsible for a foursome, preferably people who aren't members, and show them what a good time we have.



Sponsorships will be doubly important as this place is a little more expensive and they won't let us bring in our own beer. We'll need as many players as possible to help keep the average cost down. If you're trying to decide what to do with your windfall check from your Exxon stock, how about sponsoring the beverage carts.

I know I can count on the usual suspects for hole sponsorships, but let's take the burden off of them and let your boss know that he/she needs to be sponsoring this event. We need to get on this right away so let me know who can sponsor what. As usual, all donations/prizes/giveaways are appreciated, so if you've got some tees left over from the ASHRAE show, bring 'em. Thanks!

Dennis O'Keefe
Research Promotion Chairman
rp@ashrae4greenville.com

Student Activity

We've had several of our Greenville Chapter members get involved with young students in the past few months. So I'd like to recognize these good deeds.

Wade Crow had a high school junior from Spartanburg High School shadow him throughout his daily duties on February 6th.



As part of the National Engineering Week activities, I had the opportunity to speak to an enthusiastic Algebra Class at Northwood Middle School in Taylors on February 23rd. My partner and I presented an audiovisual program on engineering in general, and then led groups of students in an engineering experiment to design a bridge from a half sheet of copy paper. Our winning team's bridge supported 117 pennies.

On March 3rd Devon Cortright spoke to a Geometry class at Greer Middle School. Devon's presentation featured an engineering overview with an example of calculating cooling load in a classroom.

If you, or your company, have participated in any student activities please, I'd like to hear about it. Please call or email me with a brief report.

Karl Counts PE
Student Activity Chairman
sa@ashrae4greenville.com

Membership Corner

We have had about **15 new members** sign up this ASHRAE year so far. That is more than we had all of last year. What is so interesting about that is that none of you have claimed any of them for our membership promotion contest. Just think what we could do if we actively promote new membership between now and the summer. Remember that if you have the most new members to join you win the \$100 for our contest. Send the names you claim to me via email specifically saying you claim them and we'll get you on the map.



Attendees at the last meeting were Andy Patel, Devon Cortright, Eric Scott, Jim Reeves, Paul Jensen, Manuel del Valle, Bill Knight, Carroll Suttles, Bob Speer, Karl Counts, Chris Adams, Jay McCutcheon, James Bryan, Bill Carnes, Steve Abernathy, Wade Crow, Ken Clark, Scott Houston, Jim Ridenhour, Jim Critchen, Steve Martin, Mike Sagedy, Ron Fleischman, David Roberts and Kevin Wilson.

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

Carroll Suttles
Membership Chairman
membership@ashrae4greenville.com

Greenville Chapter Social Events

On February 17 a small, but enthusiastic, group of ASHRAE members traveled to Sugar Mountain, NC. The temperature was in the upper 40's with generous amounts of sunshine. Every slope was open. Conditions were good and it was an enjoyable and safe outing. Aren't you sorry you missed it?



The Board of Governors is very interested in this as a possible annual outing, but would like to encourage much more participation. We would be very interested to hear from any of our members on ways to get you more involve. We would also appreciate your suggestions for other future social events. Please send me your suggestions, recommendations, or criticisms.

Devon Cortright PE
Treasurer
treasurer@ashrae4greenville.com

Greenville Chapter ASHRAE

2004-2005 Chapter Officers

Office	Officer	Company	Phone	Fax	email
President	James Bryan	O'Neal, Inc.	298-2148	298-6330	president@ashrae4greenville.com
Programs/ PE	Eric Scott	Carrier Carolinas	232-6633 x21	242-0290	programs@ashrae4greenville.com
Secretary	Scott Houston	Thermal Resource Sales	250-2822	250-0585	secretary@ashrae4greenville.com
Treasurer	Devon Cortright	H2L	233-8844	232-2679	treasurer@ashrae4greenville.com
Membership	Caroll Suttles	Piedmont Natural Gas	235-5844 x3055	233-6104	membership@ashrae4greenville.com
Resource Prom.	Dennis O'Keefe	Piedmont Natural Gas	250-2822	250-0585	rp@ashrae4greenville.com
CTT	Jamie Porterfield	Waldrop Heating & Air	578-7252	578-3414	ctt@ashrae4greenville.com
Student Activities	Karl Counts	Day & Zimmermann	241-8335	241-6750	sa@ashrae4greenville.com
Historian	Paul Jensen	Trane Upstate Carolina	672-6130	672-6001	history@ashrae4greenville.com
Webmaster	Karl Counts	Day & Zimmermann	241-8335	241-6750	webmaster@ashrae4greenville.com

Tentative Meeting Dates for 2005-2006

Tues 9/20/2005	Radiant Cooling Panels	Dr. Stanley Mumma PhD, PE; Penn State
Tues 10/18/2005	Why Water Source Heat Pumps?	Chris Edmondson PE, James M Pleasants
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.	Bill Caldwell, Waldrop Heating & Air
Tues 3/21/2006	Designing For Occupant Acceptance	Dan Int-Hout III, Chief Engineer, Krueger
Tues 4/4/2006	Understanding Waterhammer in Steam Systems	Wayne Kirshner PE
Wed 4/19/2006	Green Buildings: Sustainability and the Building Environment	ASHRAE Satellite Broadcast
Tues 5/16/2006	Humidity Control for Commercial Buildings	Mark Nunnely PE, Nunnely & Associates

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Technology for a Better Environment