



# *Giga-Joule*

Greenville  
Chapter of  
ASHRAE

April 2004

## ***Meeting Announcement***

**This month's meeting will be held on Wednesday, April 14, 2004, from 11:30 AM to 3:00 PM at the Trane office on 288 Fairforest Way . For directions, please visit our website at [www.ashrae4greenville.com](http://www.ashrae4greenville.com), call Trane @ 864-672-6000, call Ryan McCleary @ 864-627-9675 ext.117 or email [ryan.mccleary@york.com](mailto:ryan.mccleary@york.com).**

## ***A Message From the President***

The Greenville Chapter would like to extend a sincere "Thank you" to the Mechanical Contractor's Association of South Carolina for allowing us to crash their March meeting once again. We would also like to thank GM Mechanical for hosting the event and providing us with a great meal. Delicious! A good time was had by all, and I'm sure we'll be getting together to do it again next year.

We are going to be mixing things up again in April. As I mention last month, Up-state Trane has been gracious enough to let us use their conference room for the satellite broadcast on "Homeland Security for Buildings". We want to thank them for hosting that.

Check out the attached golf tournament sign up sheet as well. Get your teams in early!

We've got a number of great things going on, but ASHRAE still needs your help. Please volunteer to serve on a committee, or bring someone new to the next meeting. Anything you can do to help the chapter will be greatly appreciated.

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

**Ryan McCleary**  
**Greenville ASHRAE President**



Ryan McCleary  
Greenville Chapter President

## Chapter Programs



Our April meeting will incorporate a 3 hour satellite broadcast from ASHRAE. Therefore the meeting time, duration and location are all different from our normal monthly routine. Please note that the meeting is on WEDNESDAY April 14th and it will be held at the Trane Upstate Carolina office. The featured program is "Homeland Security for Buildings". Please also note that the cost for meeting is slightly higher as well (\$15). As always, this includes a catered hot lunch.

**Date:** April 14, 2004

**Time:** 11:30 AM                      Doors Open  
 11:35 AM                              Lunch Served  
 11:50 AM - 12:00 PM              Chapter Business  
 12:00 PM - 1:25 PM              SEGMENT ONE: Homeland Security for Buildings  
 1:30 PM - 3:00 PM                SEGMENT TWO: Protecting Buildings from CBR and Associated Threats

**Location:** Trane Upstate Carolina                      288 Fairforest Way, Greenville                      864-672-6000

**Speaker:** Chair: Ronald P. Vallort, P.E., plus several guest speakers (visit website for more info)

**Description:** Terrorist attacks targeting the built environment are a critical and compelling issue to the nation, especially to building designers, owners and managers and first responders. Multiple hazards and threats intersect within a building, and critical questions concerning the danger of chemical, biological or radiological (CBR) attacks remain. This broadcast will address questions of design, construction and operation of buildings. The primary goal is to address the key issues related to building protection from CBR incidents and draws heavily from ASHRAE's most credible and timely reports and publications. This broadcast is intended to reach a cross-section of professionals, including engineers, architects, building owners and managers, fire, police, medical responders, public safety officers, risk managers and other key personnel.

**Cost:** \$15/person - Lunch is included and guests are welcome

**Education Credit:** This program qualifies for 3.0 PDH

**Please RSVP to [programs@ashrae4greenville.com](mailto:programs@ashrae4greenville.com) no later than Wednesday, April 7, 2004**

Karl Counts

Programs Chairman

## Membership

Only a couple of meetings left. This year has gone by fast. Thanks to all of you that have been promoting ASHRAE to those you have been in contact with this year. If you haven't paid your dues yet, please do so, you only get three notices before the Society drops you from the roles, then you have to catch up on dues to be reinstated or reapply. Let me know if you have any questions concerning membership or if you would like to be on the membership committee next year.

Caroll Suttles

Membership Chairman

## Resource Promotion

### Have You Caught Spring Golf Fever Yet?

Our Spring Golf Outing to benefit Resource Promotion is coming up Friday, April 23<sup>rd</sup>. The golfer sign-up and sponsor sign-up forms are attached in a separate word document. Please take advantage of this opportunity for Fun, Fellowship & Fund raising!



Don't forget the attached Golfer sign-up and Sponsor sign-up sheets!

Ken Clark  
Resource Promotion Committee 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. Either contact me or visit the ASHRAE web-site at

<http://www.ashrae.org/template/AssetDetail/assetID/25447> for forms and more information.

Then proceed as follows:

- 1.** Complete the "Short Form" and use it as the cover page.
- 2.** 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, then state accordingly):

Energy Efficiency	Indoor Air Quality	Innovation
Operation & Maintenance	Cost Effectiveness	

- 3.** 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.

Greg Kyzer  
TEGA Chairman

# ASHRAE

(AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIRCONDITIONING ENGINEERS)

## CLEMSON STUDENT CHAPTER

### Room 169 of Lee Hall

6:00 PM, Tuesday, April 6th, 2004

### LEED Green Building Design from the Perspective of the Mechanical Engineer

*AN INTRODUCTION AND CASE STUDY*

**GUEST SPEAKER: Rob Turner, PE**

*Wade Crow Engineering, Spartanburg, SC*

Rob is a Mechanical Engineer at Wade Crow Engineering (WCE) in Spartanburg, SC. WCE is a consulting engineering firm that designs heating, air conditioning, piping, and plumbing systems. WCE has designed several LEED buildings, (7) geothermal buildings, and a number of other high tech HVAC concepts. Mostly, these designs apply to schools, but WCE has also designed science facilities, libraries, and high-rise office buildings. No matter who the client is, they increasingly demand higher efficiencies and lower operating costs.

Rob holds a Bachelor of Science Degree in Mechanical Engineering from Clemson University (1995). He began his career with Lockwood Greene in industrial mechanical design. After three years he moved to the smaller Wade Crow Engineering, and has been there ever since. He got his professional engineering accreditation (P.E.) in 2000. Rob is also the Greenville ASHRAE Student Chairman.

*Jointly sponsored by **The South Carolina Institute for Energy Studies,**  
the **Clemson University School of Building Design** and the **Greenville Chapter of ASHRAE***

Learn how this cross-disciplinary professional organization can enhance your college and professional career through scholarships, technical competition, networking, resume services combined with opportunities for fellowship and fun!

**SEE YOU THERE!!**

(Any questions? Prof. Ray Schneider 656-6739, rkschne@clemson.edu)

# Greenville Chapter ASHRAE

2003-2004 Chapter Officers

Office	Officer	Company	Phone	Fax	email
President	Ryan McCleary	York International	627-9675	627-0953	<a href="mailto:president@ashrae4greenville.com">president@ashrae4greenville.com</a>
Programs/ VP	Karl Counts	Warren Maddox, Inc.	250-2143	233-8460	<a href="mailto:programs@ashrae4greenville.com">programs@ashrae4greenville.com</a>
Secretary	James Bryan	O'Neal, Inc.	298-2148	298-6330	<a href="mailto:secretary@ashrae4greenville.com">secretary@ashrae4greenville.com</a>
Treasurer	Devon Cortright	H2L	233-8844	232-2679	<a href="mailto:treasurer@ashrae4greenville.com">treasurer@ashrae4greenville.com</a>
Membership	Caroll Suttles	Piedmont Natural Gas	233-7966	233-6104	<a href="mailto:membership@ashrae4greenville.com">membership@ashrae4greenville.com</a>
Resource Prom.	Ken Clark	Thermal Resource Sales	250-2822	250-0585	<a href="mailto:resourceprom@ashrae4greenville.com">resourceprom@ashrae4greenville.com</a>
Student Activities	Rob Turner	Wade Crow Engineers	585-9903	585-4528	<a href="mailto:studentactivity@ashrae4greenville.com">studentactivity@ashrae4greenville.com</a>
TEGA	Grey Kyzer	Arcadis G & M	241-5106	235-9062	<a href="mailto:tega@ashrae4greenville.com">tega@ashrae4greenville.com</a>

## Tentative Meeting Dates for 2003-2004

April 14, 2004 – Homeland Security for Buildings

May 18, 2004 – The ASHRAE Member's Guide to Risk Management

September 16, 2003 – Control of VAV Systems with DX Cooling

October 21, 2003 – Selecting the Right Fan

November 18, 2003 – Primary/Secondary vs. Variable Primary Flow Debate

January 6, 2004 – Bi-Lo Center Refrigeration Tour/Hockey Game

January 20, 2004 – Biotech Facility Pilot Plant

February 17, 2004 – Hot Water Boilers and Water Source Heat Pumps

March 9, 2004 – Joint Meeting with Mechanical Contractor's Association



**ASHRAE**

Technology for a Better Environment

Greenville Chapter of  
ASHRAE