



# *Giga-Joule*

**Greenville  
Chapter of  
ASHRAE**

**February 2004**

## *Meeting Announcement*

**This month's meeting will be held on Tuesday, February 17, 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 call Ryan McCleary @ 864-627-9675 ext.117 or email [ryan.mccleary@york.com](mailto:ryan.mccleary@york.com) or visit [www.ropermountain.org](http://www.ropermountain.org).**

## *A Message From the President*

The Greenville Chapter would like to thank Manuel Del Valle of Fluor for presenting us with "A Biotechnological Pilot Plant Facility" at last month's meeting. He did a fantastic job, as evident by the high scores on the program evaluation forms. I would encourage other Consulting Engineers in our chapter to come forward and present project case studies in the future.



**Ryan McCleary**  
Greenville Chapter President

Is it February already? Yes it is, and February's meeting is a Membership Promotion meeting. It is important to bring in new members to ASHRAE, but it is just as important to retain those members we currently have. Are you current on your membership dues? Have you re-upped this year? If not, why? Have you accidentally let it slide, or is there something you are looking for that you're not getting from the chapter. I urge you to bring those issues to us. We are here to serve our members. Without YOU, ASHRAE cannot exist.

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**

## Chapter Programs



Thanks everyone for the fine turnout at January's meeting to hear Manuel Del Valle speak on Pilot Biotechnological Plants. Thanks also to Hugo Linares who almost had to pinch hit for Manuel. Lucky for our chapter, Manuel's trip out of town was postponed.

For February's meeting one of our own chapter members, Bob Speer, has graciously consented to present the program:

### **Understanding the Application of Boilers in Water Source Heat Pump Systems**

In this program Bob will review some of the piping systems and potential problems associated with the boilers used in water source heat pump systems.

Bob Speer is 1966 graduate of the Georgia Institute of Technology. After serving as an officer in the United States Navy, Bob joined the Trane Company. He worked as a Trane Representative in Greenville and Columbia. Bob, later, managed a HVAC Equipment Distributor in Columbia. In 1982 Bob joined Heat Transfer Sales and continues there to this day.

Karl Counts

Programs Chairman

Please RSVP to [programs@ashrae4greenville.com](mailto:programs@ashrae4greenville.com)

no later than **Wednesday, February 11, 2004**

Cost is \$10

## Membership

February is our second Membership Promotion emphasis meeting. Please try to invite anyone who may be a prospective member. Remember that prospects who fill out membership applications eat free at this meeting. New members who have joined during the first half of the year are John Hall, Robert Simpson, Scott Rhoads, Gary Coster, John Corn and Wilma Barnes. Thank you for joining ASHRAE.

### **ASHRAE: Biotech Pilot Plant Facility by Manuel Del Valle on 01/20/04 [1 PDH]**

Attendees at the January meeting were: Steve Abernathy, Adolph Beyerlein, John Bindewald, Ken Clark, Devon Cortright, Karl Counts, Karl Grizio, Rodney Hinton, Clint Hunter, Greg Kyzer, Patrick Leak, Jim McCarter, Ryan McCleary, Jim Reeves, Rob Rettew, Bob Speer, Caroll Suttles, Manuel Del Valle, Robert Simpson, Ben Leppard, Chip Allison, Mark Rosenfeld, Paul Jensen, Walter Henson, Ron Sparks, Joe Cain, Jody Parker, Jay Hannah.

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

Caroll Suttles

Membership Chairman

## Resource Promotion

Our Spring Golf Outing to benefit Resource Promotion is tentatively planned for Friday, April 23. Mark your calendars today! Details and sign up forms for golfers & sponsors will be available soon. Start recruiting your Winning Foursome!

Thanks to all of our members who have already contributed to Resource Promotion. Our Chapter has raised \$3,354.00 year to date. We are well on our way toward our goal of \$12,703.00 for the year.

If you haven't contributed yet, please keep ASHRAE Resource Promotion in mind for a tax-deductible contribution!



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, February 10th, 2004

#### Being a Sales Engineer in the Construction Industry

How the Sales Representative interacts with  
Owners, Architects, Engineers & Contractors

#### **GUEST SPEAKER: Ken Clark**

*Thermal Resource Sales, Greenville, SC*

Ken is the Branch Manager for Thermal Resource Sales Upstate and Western Carolina territory. Thermal Resource Sales is a full line manufacturer's representative/distributor of commercial & industrial mechanical equipment, with a focus on engineered systems ranging from simple comfort conditioning to complex critical applications such as industrial ventilation, clean rooms & laboratories. Including geothermal heat pumps, energy recovery, high performance air filtration, custom & high performance HVAC equipment.

Ken holds a Bachelor of Science Degree in Engineering from the University of Central Florida. His 20-year career includes 13 years with Carrier Corporation's Engineered Systems Division in positions ranging from Sales Engineer to Area General Manager, two years with Johnson Controls as Branch Manager of the Texas Gulf Coast and four years with Thermal Resource Sales.

*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	O'Neal, Inc.	298-2170	298-6330	<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>
Historian	Steve Abernathy	Piedmont Natural Gas	233-7966	233-6104	<a href="mailto:historian@ashrae4greenville.com">historian@ashrae4greenville.com</a>

## Tentative Meeting Dates for 2003-2004

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

**March 16, 2004 – Joint Meeting with Mechanical Contractors Association**

**April 20, 2004 – Worst Practice Lessons for the Future**

**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**



**ASHRAE**

Technology for a Better Environment

**Greenville Chapter of  
ASHRAE**