



**Greenville
Chapter of
ASHRAE**

Giga-Joule

January 2004

Meeting Announcement

This month's meeting will be held on Tuesday, January 20, 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 or visit www.ropermountain.org.

A Message From the President

Happy New Year! Hopefully by now the effects of the Holidays have worn off and everyone is back in the swing of their old work routine. Okay, I'm not either...but while making your new year's resolutions, perhaps you can include ASHRAE as an area you'd like to give a little more focus. It's a great way to give back to the industry that supports you, not to mention it's informative and good for keeping in touch with your peers in the industry.

The Greenville Chapter would like to thank Bobby Askin of the Bi-lo Center for allowing us to come and check out their refrigeration/ HVAC system on January 6th. We had a pretty good turn out, and I think all would agree that the Bi-lo Center did a fantastic job of answering our questions. Thanks again for their hospitality.

I wanted to take a moment to bring everyone up to speed on a recent development that will directly affect our February meeting. ASHRAE President Richard Rooley was to speak to us at this meeting. Unfortunately, President Rooley recently learned of a health problem that will not allow him to make the trip. He will undergo minor surgery on January 31st and will be recovering during his previously planned trip to a few of the chapters in our region. We certainly want him to know that we will be thinking about him and we wish him a speedy recovery. We have yet to determine a replacement for President Rooley, and would definitely appreciate any suggestions. Please send those to myself, or to our Programs Chairman, Karl Counts.

ASHRAE still needs your help. Make 2004 the year you finally get involved!

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



This month's meeting will be a case study on a Biotechnological Pilot Plant Facility presented by Hugo Linares, P.E. Here is a short biography for Mr. Linares:

Bachelor of Science in Mechanical Engineering - Georgia Tech
Master of Business Administration - University of Florida

PE licenses in SC, NC and FL
ASHRAE member

Current Position: Building Systems Department Manager, Fluor Enterprises, Inc, Greenville, SC
(Note: Building Systems includes: HVAC, Non-Clean Utilities, Plumbing, Fire Protection and Auxiliary Systems)

Hugo Linares, PE has 20 years of Mechanical Design experience in HVAC, Plumbing and Fire Protection systems. Mr. Linares started his design career as a Mechanical Design Engineer in a Commercial and light Industrial Mechanical/Electrical consulting firm. He later joined Pan Am World Services at Cape Canaveral as part of the Eastern Test Range Project. He served there as a Facilities Design Engineer and Mechanical Department Manager. In addition to his Fluor experience in the Chemicals, Plastics and Fibers Industrial Process HVAC group, he has worked as an Engineering Manager and Project Manager for LTG Technologies, an International design-build specialty HVAC firm. Mr. Linares has been actively involved in US projects as well as projects in Europe, Central and South America.

Karl Counts
Programs Chairman

**Please RSVP to programs@ashrae4greenville.com
no later than Friday, January 16, 2004**

Resource Promotion

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

On Tuesday January 6, 2004 our ASHRAE chapter toured the mechanical facilities of the BI-LO center. Touring a refrigeration plant was worth 25 points for PAOE. If anyone has an idea for an activity for additional PAOE points, contact Greg Kyzer.

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

Membership

Welcome to new members Wilma Barnes and John Corn.

Congratulations to James Bryan and John McCutcheon on their upgrade from associate to member status. Feel free to contact me to find out if you qualify for this upgrade.

The years half over and we have only 6 new members. If anyone knows of an interested party in ASHRAE, be sure to provide me with their contact information so I can send an application to them.

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

Carroll Suttles
Membership Chairman

Clemson Student Chapter

Our next Clemson ASHRAE meeting/seminar will be February 10. For that meeting I am looking for a sales rep from a major HVAC company to speak. Specifically, I want to cover how the sales rep interacts with Architects, Construction Managers, and Engineers. Also a bit of information on the hardware, pro's and con's of geothermal in SC; and sales as a career. There has been a lot of interest in Geothermal equipment and technology from the Clemson people. Anybody that is interested should represent water source heat pumps and be familiar with them. This would provide some good exposure to anyone's company. Please pass the word and have them contact Rob Turner at rtwce@bellsouth.net

Rob Turner
Student Activities

Greenville Chapter ASHRAE

2003-2004 Chapter Officers

Office	Officer	Company	Phone	Fax	email
President	Ryan McCleary	York International	627-9675	627-0953	president@ashrae4greenville.com
Programs/ VP	Karl Counts	O'Neal, Inc.	298-2170	298-6330	programs@ashrae4greenville.com
Secretary	James Bryan	O'Neal, Inc.	298-2148	298-6330	secretary@ashrae4greenville.com
Treasurer	Devon Cortright	H2L	233-8844	232-2679	treasurer@ashrae4greenville.com
Membership	Caroll Suttles	Piedmont Natural Gas	233-7966	233-6104	membership@ashrae4greenville.com
Resource Prom.	Ken Clark	Thermal Resource Sales	250-2822	250-0585	resourceprom@ashrae4greenville.com
Student Activities	Rob Turner	Wade Crow Engineers	585-9903	585-4528	studentactivity@ashrae4greenville.com
TEGA	Grey Kyzer	Arcadis G & M	241-5106	235-9062	tega@ashrae4greenville.com
Historian	Steve Abernathy	Piedmont Natural Gas	233-7966	233-6104	historian@ashrae4greenville.com

Tentative Meeting Dates for 2003-2004

January 20, 2004 – Biotech Facility Pilot Plant

February 17, 2004 – Worst Practice Lessons for the Future

March 16, 2004 – Joint Meeting with Mechanical Contractors Association

April 20, 2004 – Hot Water Boilers and Water Source Heat Pumps

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



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Technology for a Better Environment

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