



# *Giga-Joule*

Greenville  
Chapter of  
ASHRAE

Sept 2006

## *Meeting Announcement*

Our first meeting will be a lunch meeting at Roper Mountain Science Center on **Tuesday, September 19, 2006 from 11:30 a.m to 1:00 p.m. at the Roper Mountain Science Center** located on the intersection of I-385 and Roper Mountain Road. For directions, please contact the Programs Chairman, Graham Fizer, by phone at (864) – 627-9675 x120 or by email at [programs@ashrae4greenville.com](mailto:programs@ashrae4greenville.com) .

**Bruce Anderson** speaking on **Why Energy Recovery Ventilation?**

If you are a member of our local chapter, you can attend this meeting at **NO COST!** You must RSVP to Graham in order to take advantage of this offer.

## *A Message from the President*

September marks our 1st meeting for the 2006-2007 ASHRAE year. I am very excited to be serving as the Greenville Chapter President for this upcoming year.

This year's CRC was hosted by the Southern Piedmont Chapter and held in Blowing Rock, NC. The Greenville Chapter was recognized this year for several awards. Caroll Suttles received the **Beacon award** for Membership Promotion for the 2nd Year in a row. Karl Counts received the **Golden Apple Award** for his work in Student Activities. Bill Knight received a **Chapter Service Award**. And finally, Devon Cortright received a **Technology Award** for an outstanding engineering project. Please join me in congratulating these individuals for their contribution to ASHRAE.

We've got an exciting year ahead us – both at the Chapter level and throughout Society. We have the majority of our programs planned for the year, please take some time to review them on the website - [www.ashrae4greenville.com](http://www.ashrae4greenville.com) . Also, we have some members stepping out into new leadership roles this year. All the details of who is doing what can be found on the web site as well. Want to get more involved? Contact any of the officers and we'll find a place for you. Finally, please take a moment to review the new ASHRAE web site at [www.ashrae.org](http://www.ashrae.org) .

Did you know that Region IV has a scholarship available for college students? Did you know it's worth \$3,000.00 a year? Please see one of our officers if you have a candidate!

Please come out to join us for the first meeting. As your Chapter President, I look forward to seeing you there!

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

**Eric Scott**  
**Greenville ASHRAE President**  
[president@ashrae4greenville.com](mailto:president@ashrae4greenville.com)

# Chapter Programs

I would like to recognize and thank Eric Scott for the outstanding job he did during the 2005 – 2006 year as Programs Chair. I am excited about the opportunity to take over as Programs Chair and I am planning on another successful year of informative topics. Our first meeting of the year is a one-hour program with Bruce Anderson, Regional Sales Manager, MicroMetl Corporation.



**Speaker:** Bruce Anderson; Regional Sales Manager, MicroMetl Corporation

**Topic:** Why Energy Recovery Ventilation?

Building code requirements for increased outdoor air ventilation rates have placed new demands on HVAC equipment and on building operating budgets. Energy recovery ventilation reduces the load on the system due to outdoor air by taking advantage of the work that has already been done to heat, cool, humidify or dehumidify the space. Instead of exhausting building energy to the outside, it is temporarily captured on the surfaces of the enthalpy wheel heat exchanger and released to pre-heat, pre-cool, humidify or dehumidify the incoming air.

## Topics to be covered include:

- ARI: Standard 1060 – Air-to-Air Energy Recovery Ventilation Equipment Certification Program
- ARI: Guideline V – Calculating the Efficiency of Energy Recovery Ventilation and Its Effect on Efficiency and Sizing of Building HVAC Systems
- ARI: Guideline W – Selecting, Sizing and Specifying Packaged Air – to – Air Energy Recovery Ventilation Equipment
- Energy Recovery Ventilation Equipment Performance Analysis Software

## Biographical Information:

Bruce Anderson, Regional Sales Manager, MicroMetl Corporation, has been involved with the energy recovery industry for the past eight years having served in product development and marketing and sales roles. Mr. Anderson has been the company's liaison to the ARI's Energy Recovery Ventilation Equipment product section and engineering subcommittee.

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

**Date:** Tuesday, September 19, 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 – Paid Members Eat Free with RSVP!**

Please reply to [programs@ashrae4greenville.com](mailto:programs@ashrae4greenville.com) by Friday, September 15th.

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

**Don't forget to RSVP!**

**Graham Fizer**  
**Programs Chairman**  
[programs@ashrae4greenville.com](mailto:programs@ashrae4greenville.com)

## *Membership Corner*

Hello, Hello, I am Chris Adams as the new Membership Chair. I know there is no way to fill Carroll Suttles shoes as Beacon Winner, again, but with his promotion within ASHRAE, it is now my turn to do what I can. We have many ideas this year and are looking for more to help promote our chapter and grow membership.

As we start this year, they always push us on our membership and dues, so just to start the year with a benchmark, here is where we are.

Total Members: 224

Current: 75%

Payment Due: 17%

Past Due: 7%.

As a reminder that if you are coming due, please send in your payment. If you need to know if you are current and to share ideas to grow membership, please feel free to contact me.  
membership@ashrae4greenville.com or (704)664-4907

**Chris Adams**

**Membership Chairman**

**[membership@ashrae4greenville.com](mailto:membership@ashrae4greenville.com)**

## *Chapter Finances*

Attached is a summary of the financial status of the chapter as of June 30, 2006. I will be stepping into another roll in the chapter and let Rodney Hinton take over as treasurer. If you have any questions or are interested in a detail listing of the financial transactions, just contact me.

**Devon Cortright**

**H2L Consulting Engineers**

864-233-8844

# *Chapter Technology Transfer*

Handbook Additions and Corrections.

I have told several clients over the years that I have never issued a perfect set of drawings. The ASHRAE handbooks are written and edited by folks just like you and me and they are not perfect. One of the last chapters of each of the handbooks is on Additions and Corrections to previous editions of the handbooks. This summer ASHRAE members should have received the 2006 Refrigeration Handbook. There are four pages of corrections for the 2002, 2003, 2004, and 2005 handbooks immediately in front of the Composite Index.

Let me point out just a few of the corrections listed:

## 2005 Fundamentals.

Columns 13a, 13c, and 13e of the weather files for all locations contain enthalpy values that are short by 7.687 btu/lb.

Page 2.7, Table 2. The effective roughness of the conduit surfaces should be 1000x larger. For example 0.06 should actually be 60.

## **2004 HVAC Systems and Equipment**

Page 12.9, Figure 16. The diagram for a reverse return water system is incorrect.

Chapter 44 Examples 5 through 9 have incorrect values.

Check the Additions and Corrections Section and consider making the noted corrections in your handbooks. If you come across a section that you are suspicious of the explanation – check the Corrections section of a subsequent addition. The 2005 and 2006 handbooks also include pages, in the back, that are intended to be cut out and faxed to the handbook editor with your comments on corrections to be added to the next editions.

# Greenville Chapter ASHRAE

## 2004-2005 Chapter Officers

Office	Officer	Company	Phone	Fax	email
President	Eric Scott	Carrier Carolinas	232-6633 x21	242-0292	<a href="mailto:president@ashrae4greenville.com">president@ashrae4greenville.com</a>
Programs/ PE	Graham Fizer	York International	627-9675 x120	627-0953	<a href="mailto:programs@ashrae4greenville.com">programs@ashrae4greenville.com</a>
Secretary	Scott Houston	Thermal Resource Sales	250-2822	250-0585	<a href="mailto:secretary@ashrae4greenville.com">secretary@ashrae4greenville.com</a>
Treasurer	Rodney Hinton	Palmetto Air Test & Balance	877-6382	877-5490	<a href="mailto:treasurer@ashrae4greenville.com">treasurer@ashrae4greenville.com</a>
Membership	Chris Adams	Adams Companies Inc.	704-664- 4907	704-664- 0846	<a href="mailto:membership@ashrae4greenville.com">membership@ashrae4greenville.com</a>
Research Prom.	Will Thomasson	James M. Pleasants	232-0200	232-0025	<a href="mailto:rp@ashrae4greenville.com">rp@ashrae4greenville.com</a>
CTT	Devon Cortright	H2L	233-8844	232-2679	<a href="mailto:ctt@ashrae4greenville.com">ctt@ashrae4greenville.com</a>
Student Activities					<a href="mailto:sa@ashrae4greenville.com">sa@ashrae4greenville.com</a>
Historian	Paul Jensen	Trane Upstate Carolina	672-6130	672-6001	<a href="mailto:history@ashrae4greenville.com">history@ashrae4greenville.com</a>
Webmaster	Karl Counts	Day & Zimmermann	241-8335	241-6750	<a href="mailto:webmaster@ashrae4greenville.com">webmaster@ashrae4greenville.com</a>

## Tentative Meeting Dates for 2005-2006

Tues 9/21/2006	ERV Technology	Bruce Anderson, Micrometl
Tues 10/17/2006	Controls Protocol & Integration	Jeff Swiderski, Carrier Controls
Tues 11/14/2006	Indoor Air Quality & Mold; Legal Issues & Liability	Chris McDonald, Shook Hardy & Bacon
Tues 12/12/2006	Acoustics	David Egan
Tues 1/16/2007	Building Code Review	
Tues 2/20/2007	Refrigerant Piping	
Tues 3/15/2007	Joint Meeting with Mechanical Contractors Association	David Hensley
Tues 3/20/2007	Electrical Engineering for HVAC	
Tues 4/10/2007	Mechanics of Refrigeration Cycle	
Thurs 4/19/2007	Satellite Broadcast	
Tues 5/15/2007	LEED	

Greenville Chapter of ASHRAE



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Technology for a Better Environment