



# Giga-Joule

**Greenville Chapter**

**February, 2011**

<http://www.ashrae4greenville.com/newsletter.php>

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## Meeting Announcement

The February meeting will be held on Thursday, February 10th at the Roper Mountain Science Center. The details are listed on the Programs Page. For more information, please contact our Programs Chairman, Grant Wiegmann, at 864-672-6105 or email at [programs@ashrae4greenville.com](mailto:programs@ashrae4greenville.com)

## *A Message from the President*

We actually had quite a turn out for our last minute change of venue due to inclement weather. Thanks to all who made the adjustment and managed to find us. For those who did not attend you missed an interesting presentation from Bryan Lampley, an ASHRAE distinguished lecturer, on open protocol control systems. I particularly want to thank Bryan who drove down from Greensboro to talk to us and Trane for allowing us to use their training room on short notice. This month we should be back in our usual digs at Roper Mountain. Be sure to join us to hear the technical presentation on thermal storage.

Welcome John Mullis to the Greenville Board of Governors as our historian. I am asking those of you that have an active participant in the chapter over the years to share some of those memories and even artifacts with John.

ASHRAE's winter meeting was in Las Vegas January 29 through February 2. We would like to know if you went. Drop me an e-mail and let me know.

Another month I ask for help. This month I ask you to consider the 2011-2012 chapter year. We are looking for the new chapter leaders to join the board. If you have an interest, please talk to one of the board members.

### Chapter Administration

The Board of Governors meeting for December 14 including discussion on the following:

- Discussion on PAOE status
- Bi Lo tour and hockey
- Finances overall status
- Research Promotion
- Spring golf tournament
- Programs
- May meeting speaker will be on VFDs and motors.
- April speaker will be on Variable Refrigerant Systems.
- Discussion of possible speakers for fall
- 2012 CRC Preliminary Planning



**Devon Cortright**  
**President**  
[president@ashrae4greenville.com](mailto:president@ashrae4greenville.com)

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

## ***Membership Corner***

Thanks to all who came out for our January meeting.

As the ASHRAE Membership Chair for the last few years, we are constantly looking for ways to boost our membership...Your participation is greatly appreciated. Bring a friend to a lunch meeting and let him/her know how ASHRAE Membership has benefited you. All mechanical engineers, mechanical contractors, facility managers, engineering students and anyone involved in any and all aspects of the HVACR industry are welcomed to join ASHRAE.



Our second Membership Promotion Meeting ,for this year, is scheduled for May. Bring a friend with a completed application and you both will enjoy lunch and the meeting on us...applications can be completed online or downloaded at [www.ashrae.org](http://www.ashrae.org) – Don't forget to select Membership in the Greenville Chapter.

Note to existing members – Please update your BIOS at [www.ashrae.org](http://www.ashrae.org)

Ideas are always welcome on to promote ASHRAE Membership, retain current Membership and fund raising...Please feel free to contact me at [membership@ashrae4greenville.com](mailto:membership@ashrae4greenville.com) or 864-444-0219 or any of the other ASHRAE Board Members.

Best Regards,  
Dorothy Bertolini  
Membership Chair – ASHRAE Greenville SC  
[membership@ashrae4greenville.com](mailto:membership@ashrae4greenville.com)

## ***Chapter Programs***



Last month Bryan Lampley (DL) gave us a presentation on Open Control Systems, and talked about the definition of what a truly “Open” system is. Overall, the presentation was very well received and Bryan gave us some great examples of what “Open” means in other industries. Thanks to Bryan for taking the time to drive to Greenville and for giving a great presentation.

This month's meeting will again be held at the Roper Mountain Science Center with Mark Johnson of Calmac Manufacturing speaking on Energy Storage. Please see the meeting agenda below for information on the program. As always, we welcome feedback on past programs and suggestions for future ones (this ASHRAE is filled up but there are plenty of open slots for next year)!

**Grant Wiegmann**  
**Programs Chair**  
[programs@ashrae4greenville.com](mailto:programs@ashrae4greenville.com)

# ***February Meeting***

**Program:** Energy Storage for a Low Carbon Future

**Presenter:** Mark Johnson

Mark Johnson is the Southeast Regional Sales Manager for Calmac Manufacturing, joining them in 1993. He's responsible for Sales in the Southeast US and Latin America and has sold over 600,000 ton-hours of ice storage in over 400 installations.

Mark has been active in Ice Storage Air Conditioning since 1989, where he served as the Thermal Energy Storage Program Manager for Florida Power & Light from 1989 to 1991. He then obtained an MBA at the University of Wisconsin-Madison and worked there for the Thermal Storage Applications Research Center there. He received a Bachelor of Science in Mechanical Engineering from the University of Illinois at Urbana-Champaign in 1985.

He resides in Hobe Sound, FL with his wife and children.

**Location:** Roper Mountain Science Center ([www.ropermountain.org](http://www.ropermountain.org))

**Date:** Thursday, February 10, 2011

**Time:** 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:** Lunch Program: \$10/chapter member \$15/non-chapter member (catered lunch)

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

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

**No later than Noon Tuesday, February 8th, 2010**

# *Chapter Technology Transfer*

## Oops – January 2011 Certificates

For the January meeting I distributed Certificates of Attendance that referenced the meeting as January 13, 2010. This is not the first time I have been accused of being behind the times. Drop me an e-mail if you wish to have yours replaced. I will have replacement January certificates at the next meeting.

## Green Issues

Green is one of the buzzwords that is used to market just about everything. I recently came across “Fiji” brand bottled water. It has a green water drop on the label and the website is Fijigreen.com. The water is bottled in the Fiji Islands, 8000+ miles from Greenville, SC.

The USGBC is the subject of a class action lawsuit filed in New York by Gifford Fuel Saving. The suit alleges that USGBC’s claims of higher efficiency buildings are misleading. The suit contends that LEED buildings actually consume more energy than non-LEED buildings. The suit is also highly critical of the self-policing nature of the LEED process.

In October the Government Services Administration, the government “owner” of most non-military federal buildings, announced that all new and significantly renovated buildings would be LEED Gold certified. GSA will require Silver certified for leased buildings. The US Army recently adopted ASHRAE’s Standard for high performance buildings, 189.1, as a requirement for new installations.

One of the large operations in our area announced at a recent meeting that all new projects will target LEED Silver for new office and commercial space. I am not at liberty to name the company, but this will involve a lot of new commercial space.

The Department of Energy has funded a limited number of free downloads of the 2009 International Energy Conservation Code (IECC). The free download of the IECC is available at [www.iccsafe.org/store/pages/doeregistration.aspx](http://www.iccsafe.org/store/pages/doeregistration.aspx).

Devon Cortright, P.E., LEED AP  
Chairman Chapter Technologies Transfer, Greenville Region IV  
ASHRAE Member Since 1982



**Devon Cortright**  
**PE**  
**Chapter Technology**  
**Transfer Chairman**

## *Research Promotions Chair*

Thank you, Bill Bowers and JMP, for your Platinum Sponsorship this year. Trane and JCI also gave generously at the Gold Sponsorship level.

Come join ASHRAE Greenville for a night at the Greenville Road Warriors hockey game. Piedmont Natural Gas has donated their suite for us to get a great view of the action. The game is Thursday, March 31, and it will only cost you \$10. \$10 gets you into the game, snacks, non-alcoholic drinks, goals, and fights. Thursday is also dollar draught night. Only 18 tickets are available, and they are going fast, so make sure you sign up now. Send me an email with your information to sign up. All proceeds from the ticket sales will go to ASHRAE Research.

The Spring Golf Outing planning has begun. It looks like we will be having a tax day captain's choice golf tournament at Verdae Greens. This is a great time to use your tax refund to support ASHRAE Research and to start building your return for next year. Get your sponsorship information in early to make sure your company is showcased. Stay tuned for details!

Regards,  
Ryan Deter  
Research Promotion Chair  
[rp@ashrae4greenville.com](mailto:rp@ashrae4greenville.com)

## *History*

Some of ASHRAE history - part 1

Once upon a time (or you youngans might say "In a galaxy far far away") there was not any ASHRAE. Its predecessors were two societies called The American Society of Heating and Ventilating Engineers (ASHVE) and The American Society of Refrigerating Engineers (ASRE).

Way back when ASHVE got started there were essentially no engineers performing designs like we do today. Up until the late 1800 most of the most designs were "rule of thumb" with little or no scientific basis. Come to think of it I know a few "engineers" still using this method.

In September 1894 a letter was sent out to many engineers that were designing these system in the New York City area. They were invited to attend a meeting that would bring together men that were of like mind to establish a society to promote engineering for heating and ventilating systems. After several meetings ASHVE was incorporated in the state of New York in January 1895.

Back then membership fee was \$15.00 and yearly dues were \$10.00. My how things have changed since then; BTW - galvanized ductwork existed at that time.

John Mullis  
Historian  
[history@ashrae4greenville.com](mailto:history@ashrae4greenville.com)

## Tentative Event Dates for 2010-2011

Thursday 09/09/2010	September Chapter Meeting: Building Leakage & Testing	Presenter: Rodney Hinton
Thursday 10/14/2010	October Chapter Meeting: Product Liability & IAQ Liability	Presenter: Ward Lambert
Friday 10/22/2010	ASHRAE Golf Tournament	
Thursday 11/11/2010	November Chapter Meeting: Humidity Control and Outside Air	Presenter: Chris Adams
Thursday 12/09/2010	December Chapter Meeting: Right Sizing	Presenter: Dennis Knight
Thursday 01/13/2011	January Chapter Meeting: Open Control System or What's in a Name?	Presenter: Bryan T. Lampley, P.E.
Thursday 02/10/2011	February Chapter Meeting: Energy Storage for a Low Carbon Future	Presenter: Mark Johnson
Thursday 03/10/2011	March Chapter Meeting: "Is There a Whole in Your Bucket, Steam?"	Presenter: Chris Edmondson
Thursday 04/14/2011	April Chapter Meeting: Ductless VRF System Applications	Presenter: Scott Graham
Friday 4/22/2011	ASHRAE Golf Tournament	
?	ASHRAE Webcast:	
Thursday 05/12/2011	May Chapter Meeting: What's New with Electric Motors and VFD's	Presenter: Bob Gluszik



**ASHRAE**  
Technology for a Better Environment

**Region IV**  
**Greenville Chapter**