



February

2011

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March Meeting

March 3, 2011

Insulation

w/ Sandy Shattles
Armacell, LLC

11:30am-1:30pm

RSVP ONLINE

(Registration using
PayPal is available
online, or you can **RSVP**
by email to David
McDaniel)

Bryon's Southend
101 W. Worthington
Avenue, Suite 110
Charlotte, NC 28203

President's Message

Neil Poissant (Adams Companies Inc)



I want to take a moment to thank the sponsors, speakers, and attendees of our CE program held on February 17th. A special "thank you" goes out to all of the BOG members for helping plan the event and making it run flawlessly, specifically Tracie Monfort.

Since the week of February 20th - 26th was National Engineers Week, I hope that some of you have had the chance and taken the time to reach out to the K thru 12 kids and shown them a glimpse of what it is like to be an engineer. Even though February 26th marks the official end of National Engineers Week, I encourage all of you to continue to reach out and inspire the youth that will be the next generation engineers.

Please plan on attending our next meeting on March 3rd at the same time and location, lunch (11:30-1:00) at Byron's south end. David McDaniel has another great speaker lined up for you, Sandy Shattles with Armacell.

Take care and we hope to see you soon.

Programs

David McDaniel (Pace, Incorporated)



It was a great pleasure to have Mark Nunnally speak at our February meeting. I heard nothing but positive feedback. Mark always presents well and I can

Upcoming Chapter Schedule

March-

3rd-
Insulation Topic

April-

7th-
Modeling a Sustainable World -
Lynn Bellenger, President of
ASHRAE

May-

5th-
Duct Wrap for Fire Control
11th-
ASHRAE SPRING GOLF
TOURNAMENT

June-

2nd-
Continuing Education class

certainly see having him at a future meeting to discuss one of his many topics.

Our March meeting topic will be on Insulation and will be presented by Sandy Shattles of Armacell, LLC. Sandy is the Insulation Sales and Market manager for Armacell. Some of you may have met her at previous Southern Piedmont Chapter meetings. I am sure we will all enjoy Sandy's presentation. Her Bio and Meeting topic will be in the next meeting announcement.

Please remember that all of our Technical Meeting topics include one professional development hour (PDH) for PEs in both North and South Carolina. Be sure to sign up with your PE number and take a certificate at the meeting. If you have forgotten to do that at any past meetings, you can email me and I will add your name to the list and email you a certificate for your records.

And finally, you should have received a link to a Survey for our Programs for 2011/2012. Please take a moment to complete this survey. We want your input to make our Chapter Programs as interesting as possible. The survey will be up for a few weeks and you will get a reminder. Feel free to make any comments you would like. Your feedback is very valuable to our Chapter success!

Membership

[Jason Smith \(Advantix Systems\)](#)

Why become a member? ASHRAE membership provides direct access into the Society's HVAC&R technical library of knowledge that is continually updated and expanded. Rooted in the Handbook, this knowledge base extends into cutting edge research papers and technical discussions published in the ASHRAE Journal and other Society periodicals. How do you keep up to date with changes in the industry? Where did you read about the details of a new integrated refrigeration control system strategy? Where did you see an advertisement for a new type of air quality sensor that's exactly what you need for a job you're bidding out next week? You



probably read it in an ASHRAE publication...just part of your ASHRAE Membership experience. Please bring a friend or colleague to the next meeting. New members are always welcome to attend!

For a pdf membership application you can print out, fill out, then mail or fax to ASHRAE, please visit www.spashrae.com/pdf/ASHRAE_application0707.pdf. Include the following with/on your application:

1. Please state your intention to participate in the Southern Piedmont Chapter.
2. National membership dues are \$180...please include an additional \$30 for Chapter dues...Total=\$210.00

We look forward to having you all on board!!!

Research Promotion

[Matt Byrne \(Schneider Electric\)](#)



Thank you to everyone who came out for our continuing education seminars last week. Those who did were treated to a great day of learning brought to us by the excellent lecturers generously provided by National Solar Trainers. Your support, together with support from our event sponsors - NST, Alternate Energy Technologies, and Schneider Electric - combined for a successful day of knowledge sharing and fundraising for ASHRAE Research.

Next up for our 2010-11 Research Campaign is the Spring Golf Event. It is scheduled for Wednesday, May 11th at Pine Lake Country Club so you will want to mark that date on your calendar. We will have lots of great door prizes and awards and it is sure to be a lot of fun for everyone who plays. We will be calling soon for hole sponsorship, with a goal of doubling the number we had last fall. So be on the lookout for more information about that fun-filled event.

Thank you for your continued support. Together we can continue Southern Piedmont's leadership in promoting ASHRAE Research.

Student Activities

[Todd Horton \(Hahn-Mason\)](#)

As I write this message we are in the heart of National Engineers Week (NEW). What did you do to promote math science and engineering, especially to the children in your life? Let us know! Didn't get a chance?

Don't worry, there are plenty of opportunities to contribute to the community. Just because the week may have passed on the calendar doesn't mean you can't make a visit in support of NEW. Also, keep in mind that the spring is a traditionally a popular time for many K-12 activities including Junior Achievement, Career Days, and Science Fairs. These are great opportunities to get involved with a local school in your neighborhood. If you are new to volunteering in this manner or just want some ideas, contact myself, Chuck Curlin or the Board of Governors and we can set you up with a variety of options. If you plan to get involved or already are, let us know. We always love a chance to toot our own horn in Region IV and Society with the great things you do.



Our student chapter at UNC-Charlotte continues to move forward. One of the M.E. grad students has taken the reigns and is setting up monthly meetings. During February they had a speaker on performance engineering and energy conservation. I am happy to report they are very much moving towards self sustainability while the chapter happily sponsors their meetings. We are always looking for those interested in speaking and the topics can vary widely. Shoot me a message if you would prefer speaking to the college folks over participating in the K-12 realm or if you would like to do both!

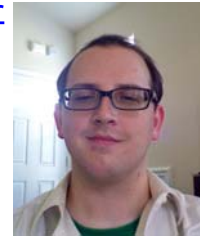
To learn more about activities and opportunities you can participate in, please visit the Student Zone on the ASHRAE website: <http://www.ashrae.org/students/>

Young Engineers in ASHRAE



[Michael Collarin\(Elm Engineering\)](#)

[Miles Grubbs \(Saber Engineering\)](#)



That Pie in the Sky
YEA Lunch at Rudino's Pizza & Grinders
March 16th, 11:30 - 1:00
Pizza Buffet and Drink, \$8.10

Southern Piedmont YEA would like to invite you to attend our first YEA lunch meeting. This will be a great way to get out of the office and meet other young professionals in the HVAC industry here in Charlotte. Since Southern Piedmont ASHRAE just hosted a great Continuing Education class on Introduction to Solar Thermal Systems, Southern Piedmont YEA would like to follow up with an opportunity for our young members to share your own experiences with solar thermal projects or to share related sustainable engineered experiences. If you weren't able to attend the Continuing Education class, but are interested in hearing from your peers on their solar and sustainable project experiences, this would be a great event to attend.

This will be an informal gathering in a public lunch environment. Rudino's has a lunch pizza buffet at a moderate cost and is located in the Southend in the Atherton Mill on South Blvd, just 0.2 miles from the East/West Lynx (light rail) Station. They also have plenty of free parking.

We will follow up with an Evite and ask that if you plan on attending to please RSVP by Friday, March 11th.

If you have any questions, please contact us via email: charlotteYEA@gmail.com

ASHRAE Online Courses Feature High-Performance Guidance

ATLANTA

- For a more sustainable world, high performance is demanded of buildings. The same applies to continuing education.

Two courses related to high-performance building design are being offered as part of ASHRAE Learning Institute's (ALI) spring online series. Twelve online instructor-led short courses run from late March through early May and are available to those interested in expanding their knowledge of the HVAC industry and keeping up to date with the latest technology and their applications. Many popular courses are offered, several of which include updated material.

Basics of High Performance Building Design, taking place April 27, focuses on the basic application of ANSI/ASHRAE/IES Standard 90.1-2010, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, and ANSI/ASHRAE/USGBC/IES Standard 189.1-2009, *Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings*, to achieve high-performance building design. The course focuses on the differences in purpose and requirements between Standards 189.1 and 90.1.

"The Basics of High Performance Building Design course will help you earn the 'three greens'," instructor Tom Lawrence, Ph.D., P.E., University of Georgia, said. "First, you will be helping the planet stay green by

reducing the energy, water and materials required to build and operate a facility. Second, you will be left with a facility that will save you 'green' due to lower operating costs and more efficient operations. Finally, you will have a building that will leave its neighboring buildings 'green with envy' when they know that they have a lower market value compared to their high performance neighbor."

Advanced High Performance Building Design, May 4, focuses on advanced concepts involved in applying Standards 90.1 and 189.1 to achieve high-performance building design. More emphasis is placed on case studies to move beyond the minimum requirements of these standards.

"In many instances, building design objectives tend to regard minimum code requirements as a ceiling of quality rather than a minimum requirement," instructor Jeff Ross-Bain, P.E., ASHRAE-Certified Building Energy Modeling Professional, Ross-Bain Green Buildings, LLC, said. "However, the development of high-performance green building methods, strategies and technologies has given designers the tools to reach for energy efficiency levels in buildings that exceed these minimum requirements and, in fact, are beginning to approach net-zero-energy building status. In order to advance the performance of buildings, it is essential that the engineering community rethink 'business as usual'

and begin to maximize the performance of buildings - *beyond the codes*. We have tools, resources and real-world examples available to help us achieve those goals. The advanced energy design course will give the attendees an insight into ways in which these principals can be integrated into practice."

Courses and dates are:

- *Using Standard 90.1 to Meet LEED® Requirements*, March 28
- *Fundamental Requirements of ASHRAE Standard 62.1-2010, Ventilation for Acceptable Indoor Air Quality*, March 30
- *Application of ASHRAE Standard 62.1-2010: Multiple Spaces Equations*, April 6
- *The Commissioning Process and Guideline 0, The Commissioning Process (co-sponsored with the Building Commissioning Authority, Illuminating Engineering Society of North America and the National Environmental Balancing Bureau)*, April 11
- *Avoiding IAQ Problems Using ASHRAE's New IAQ Guide*, April 13
- *Understanding Standard 189.1 for High Performance Green Buildings*, April 18
- *District Cooling & Heating Systems: Central Plants*, April 20
- *Understanding Air-to-Air Energy Recovery*

Technologies and Applications, April 25

- *Basics of High Performance Building Design, April 27*

- *Complying with Standard 90.1-2010 HVAC/Mechanical, May 2*

- *Advanced High Performance Building Design, May 4*

- *Complying with Standard 90.1-2010 Envelope/Lighting, May 11*

The three-hour courses are taught in real-time, from 1 p.m. to 4 p.m. EDT. Either three professional development hours or American Institute of Architects learning units or 0.3 continuing education units are available for each course.

Those who sign up for courses before March 18 receive a reduced registration fee. A 20 percent discount is also available to participants who register for courses with related topics.

A full list of courses and registration information can be found at www.ashrae.org/onlinecourses.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

Announcements

ASHRAE STANDARDS LIBRARY

Check out the main library in downtown Charlotte for hard copies of all of the ASHRAE Standards. These are available in the reference section.

Email tracie.monfort@hesm.com to add announcements, job postings, etc. in future newsletters.
