

# THE HEAT INDEX



## SEPTEMBER 2011

### Next Meeting:

September 12, 2011 @ 5:30

Carolina Wings in the Vista  
600 Gervais Street

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## PRESIDENT'S MESSAGE: Brandon Keatley

We are looking forward to starting off the 2011-12 ASHRAE year right with our September meeting. We've lined up a new location (Carolina Wings in the Vista) and it should serve our needs perfectly. The meeting room will be immediately on your left after you come through the main entrance.

We are excited to say we will be offering 1.5 PDH credits for attendance of the September meeting. See "Programs" for details.

After a great presentation, please feel free to stick around for some Monday Night Football on the big screens (New England vs. Miami).

Your 2011-2012 Board of Governor's may surprise you a little. We've recruited some past ASHRAE presidents to get back involved and really help ensure all programs and functions for this year will be top notch. I want to personally thank them all for making themselves available. Their support is much appreciated.

The remaining meeting dates and events for the year will be published by our October issue of the Heat Index. The dates will be made available in the Events section of the website as well for quick reference. <http://southcarolina.ashraechapters.org>

Remember, your meals at meetings are free if you've paid local dues. Don't miss out on good food, good programs, and a good time with others in the industry.

Thanks. - Brandon Keatley

**CHAPTER PROGRAMS: Michael Boone**

## **1.5 PDH credits plus wings and beverages! (what could be better?)**

**September 12 Meeting:**

**“Transmission of Biologicals, Biologicals of Concern, Particle Distribution, Control Strategies, Filtration Options”**

With **Jeff Watcke** of Dynamic Air Quality Solutions.

“Dynamic Air Quality Solutions is an USGBC Education Provider committed to enhancing the ongoing professional development of the building industry and LEED Professionals through high-quality education programs. As a USGBC Education Provider, Dynamic Air Quality Solutions has agreed to abide by USGBC established operational and educational criteria, and is subject to annual reviews and audits for quality assurance.”

- Michael Boone

**RESEARCH PROMOTION: Daniel Winders**

## **Show me the money!**

Donating to and promoting ASHRAE research is a noble cause. We all depend on ASHRAE to drive the standards and methods that we all use to make our livings. If you’ve considered donating to ASHRAE research please contact me, Daniel Winders, to find out more. Stay tuned for information about our Golf Outing; in which we raise money for Research.

If you donate directly to Society...please let me know as well. We want to make sure you and our chapter get credit for the generosity.

When you donate as your company or vendor’s company...we make sure to recognize you here in the Heat Index as well as on our website.

<http://southcarolina.ashraechapters.org>

- Daniel Winders

## We need your help!

Welcome to beginning a new year in ASHRAE. I will be this years Chapter Technology Transfer Committee (CTTC) chairman and we have some work cut out for us.

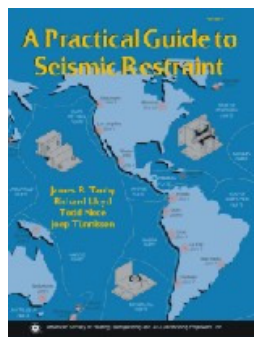
I will be asking for help from all of the Chapter members in achieving our points for POAE. During the coming months I will be highlighting in the Heat Index ways each of you can help secure points. Some of the easiest points to achieve are points awarded for contact with government officials, business or professional groups to promote ASHRAE related topics with double points if you discuss ASHRAE 189.1.

Many of us meet with school boards and county, city, and state facilities people on a regular basis. A simple email or letter from them or documentation by you acknowledging your meeting and topic is all we need. Please keep this in mind as you meet with people over the coming year. I'll be happy to discuss this further at Chapter meetings or you may contact me directly for more information. Stay tuned to the Heat Index for more ways you can participate.

- Jeff Howell

jeffhowell@mecainc.com

## Who felt the earthquake?



A Practical Guide to Seismic Restraint  
(ASHRAE Research Project 812)

This guide is for engineers concerned with seismic and wind restraint design. Produced as ASHRAE Research Project 812, it acquaints the reader with seismic restraint design principle and methods and includes code requirements, specification considerations, seismic restraint devices and connection methods, and equations for seismic and wind force determination along with examples. The guide also includes photographs of correct and incorrect methods for installation of mechanical, electrical, plumbing equipment and piping.

[Click here to purchase this manual](#)

Length: 151 pages

Published: 2000

Publisher: ASHRAE

# Standard 90.1-2007 Established as National Reference Standard for Federal, Commercial Buildings by DOE

**ATLANTA** – Commercial and high-rise residential buildings, including federal buildings, must now meet requirements in ASHRAE/IESNA’s 2007 energy efficiency standard, under recent rulings issued by the United States Department of Energy (DOE) that finds the standard saves more energy than the 2004 version.

ANSI/ASHRAE/IESNA Standard 90.1-2007, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, has been established by the DOE as the commercial building reference standard for state building energy codes under the federal Energy Conservation and Production Act. As a result, states are required to certify by July 20, 2013, that they have reviewed and updated the provisions of their commercial building code regarding energy efficiency, including a demonstration that the provisions of their commercial building codes regarding energy efficiency meet or exceed 90.1-2007.

The DOE also has issued a rule that requires new federal buildings, for which the design for construction begins on or after Oct. 11, 2012, to meet the requirements of 90.1-2007.

Prior to the new rules, federal and commercial buildings had to meet requirements in the 2004 standard.

“We are pleased with this recognition that the 2007 standard saves more energy than the 2004 standard, thereby pushing the marketplace toward more energy-efficient buildings,” ASHRAE President Ron Jarnagin said. “ASHRAE continues to build on the foundation of efficiency contained in Standard 90.1. We recently published the 2010 version of the standard, which results in more than 30 percent energy savings over the 2004 version. We currently are working on the 2013 standard, with a renewed focus on increasing the stringency to achieve a significant reduction in energy consumption.”

The Illuminating Engineering Society (IES), cosponsor of the 90.1 standard, is also pleased with the DOE’s favorable determination on the energy savings achieved in 90.1-2007, according to Rita Harrold, IES director of technology.

“As ASHRAE President Ron Jarnagin indicates, the work is ongoing through the dedication and expertise of voluntary consensus committee members from both organizations who continue to meet the challenge of developing additional requirements for energy efficient buildings,” Harrold said.

“The DOE has determined that the quantitative analysis of the energy consumption of buildings built to Standard 90.1-2007, as compared to buildings built to Standard 90.1-2004, indicates national source energy savings of approximately 3.9 percent of commercial building consumption,” according to the DOE. “Additionally, DOE has determined site energy savings are estimated to be approximately 4.6 percent.”

The DOE noted that the newer version of the standard contained 11 positive impacts on energy efficiency. These impacts included changes made through the public review process in which users of the standard comment and offer guidance on proposed requirements. The positive impacts include:

- Increased requirements for building vestibules;
- Removal of data processing centers and hotel rooms from exceptions to HVAC
- Modification of requirements regarding demand controlled ventilation, fan power limitations, retail display lighting requirements, cooling tower testing requirements, commercial boiler requirements, part load fan requirements, opaque envelope requirements and fenestration envelope requirements.

ASHRAE and IES currently are working on the 2013 standard, having published the 2010 last year. Some 30 percent energy savings can be achieved using the 2010 version of Standard 90.1 vs. the 2004 standard. Without plug loads, site energy savings are 32.6 percent and energy cost savings 30.1 percent. Including plug loads, the site energy savings are estimated at 25.5 percent and energy cost savings 24 percent.

Since being developed in response to the energy crisis in the 1970s, Standard 90.1 now influences building designs worldwide. It has become the basis for building codes, and the standard for building design and construction throughout the United States. ASHRAE and IES publish a revised version of the standard every three years.

**“Triple H” - Your  
Hometown Hero In  
HVAC&R  
Donny Pittman**



**Introducing the “Triple H” - Hometown Hero In HVAC&R. We just want to take a moment from time to time to recognize some of the folks who have made great impressions on the industry in our town. The first “Triple H” is MECA, Inc. co-founder Donny Pittman.**

WE HONOR ONE OF OUR OWN WITH THE SELECTION OF DONNY R. PITTMAN, P.E. MOST RECENTLY, DONNY SHOULDERED THE LOAD TO BECOME THE CHAIRMAN FOR THE CHAPTERS REGIONAL CONFERENCE HELD IN MYRTLE BEACH, SOUTH CAROLINA - RECEIVING EXCELLENT REVIEWS.

DONNY BEGAN HIS EDUCATION AT THE UNIVERSITY OF SOUTH CAROLINA RECEIVING HIS BS DEGREE IN MECHANICAL ENGINEERING IN 1975 FOLLOWED BY HIS MASTERS DEGREE IN MECHANICAL ENGINEERING IN 1980.

HE BEGAN HIS CAREER IN 1975 WITH B.F. GOODRICH, INC. AND FORMED HIS CURRENT FIRM, MECHANICAL ENGINEERING CONSULTING ASSOCIATES, INC.(MECA) IN 1979.

MECA HAS SUPPORTED ASHRAE SINCE ITS INCEPTION BY HAVING AS MANY AS 8 EMPLOYEES AS ASHRAE MEMBERS. DONNY SERVED AS PRESIDENT OF THE SOUTH CAROLINA CHAPTER IN THE 1987/88 CHAPTER YEAR AND HAS SERVED AS TREASURER OF THE SOUTH CAROLINA CHAPTER FOR THE PAST 15 YEARS.

DONNY HAS BEEN ON THE CUTTING EDGE OF TECHNOLOGY AND DESIGN. IN THE EARLY 1980'S, HE WAS AMONG THE FIRST TO HAVE A SUCCESSFUL ICE STORAGE SYSTEM AT THE SOUTHERN BELL FACILITIES. HE DESIGNED ONE OF THE FIRST VARIABLE AIR VOLUME SYSTEMS FOR LAB HOODS FOR THE CDC OFFICE IN ATLANTA AND HAS BEEN ACTIVE IN THE FIELD OF FORENSIC ENGINEERING WITH NUMEROUS FACILITIES FROM NEW YORK CITY TO PHOENIX, ARIZONA.

- John Toney

**STUDENT ACTIVITIES: Jim Haynes**

## **Gaaaaame...Cocksssss...Gaaaaame...**

Our Student ASHRAE Chapter at USC will be reorganizing and back in action for the Fall Semester. The Student Chapter had lapsed into inactivity and is being required to fill out paperwork to be officially reinstated as an Organization at the University of South Carolina.

The Students are invited to our September meeting and all future meetings. Dr Jeff Moorehouse will be serving as the Faculty liaison as he had in previous years. The students will have a short organizational meeting after the September meeting to elect officers and plan for future activities. Please be sure to welcome and encourage them when you see them at the meetings.

Thank you.

- Jim Haynes

**MEMBERSHIP: Kent Koehn**

## **Bring a guest.**

I think it's safe to say that everyone knows someone who should probably be a member but just hasn't joined yet. A friendly nudge is likely all it would take to grow our chapter and keep up the tradition of being in an ASHRAE region that makes a difference. We want to encourage our members to bring a guest, friend or colleague from the industry out to the meetings. We will be happy to accommodate them free of charge. And we'll give you your well deserved pat on the back for bringing them out.

Here at the beginning of the new year would be a great time to double check that you have paid your local chapter dues as well. If you renewed online it is possible that the check box for local dues didn't get checked. I'd like to ask that you double check this for us and notify me (Kent) if we need to get settled. The viability of our Chapter depends on these dues...and they way the site works currently makes it very easy to be overlooked.

Thanks so much.

- Kent Koehn

**ASHRAE CHAPTER  
OF  
SOUTH CAROLINA**



*Advancing HVAC&R to  
serve humanity and promote  
a sustainable world.*

[http://  
southcarolina.ashraechapters.org/](http://southcarolina.ashraechapters.org/)



**2011-12 SCHEDULE OF EVENTS**

DATE	TIME	LOCATION	SPEAKER	TOPIC
Mon, Sept 12	5:30 PM	Carolina Wings	Jeff Watcke	Filtration
Tues, Oct 17	5:30 PM	Carolina Wings	Tom Rice	Chilled Beam
Oct (Golf)	TBD	TBD	TBD	Winning
Tues, Nov 15	5:30 PM	Carolina Wings	Jason Pittman	Contracting Insurance Legal Issues
Tues, Jan 17	5:30 PM	Carolina Wings	Scot Graham	VRF
Tues, Feb 21	TBD	TBD	TBD	Refrigeration Tour
Tues, March 20	5:30 PM	Carolina Wings	TBD	Steam
Tues, April 17	5:30 PM	TBD	TBD	BIM Modeling
May	TBD	TBD	TBD	Spouse Night
May (Golf)	TBD	TBD	TBD	Winning

**OFFICERS AND COMMITTEE CHAIRS**

POSITION	NAME	COMPANY	EMAIL
President	Brandon Keatley	Faulkner/Haynes	brandon.keatley@fha-hvac.com
Vice President	Michael Boone	Trane	mboone@trane.com
Treasurer	Donny Pittman	MECA, Inc.	drpittman@mecainc.com
Secretary	Damon Ditch	MECA, Inc.	dditch@mecainc.com
Membership	Kent Koehn	Trane	kkoehn@trane.com
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