

# The A.S.H.R.A.E. Newsletter

## Southwest Florida Chapter # 139



Voted Region XII Best Newsletter for ASHRAE Year 1998 - 1999 & 2006 - 2007

[www.swflashrae.org](http://www.swflashrae.org)

## Meeting Notice

Topic:  
**Florida Building Energy Code Updates & advanced building energy Performance Standards**

Guest Speaker:  
**Mangesh Basarkar, Florida Solar Energy Center (FSEC), Research Engineer**

Meeting Location:

**Magnolia Room**  
Town Center at Pelican Preserve  
(just off Colonial Blvd.)

Time:

**5:00 – 6:00** Board of Governors Meeting  
**5:45 – 6:45** Technical Session  
**6:45 – 8:30** Dinner, Meeting and Program

Date:

**Thursday**  
**January 15, 2009**

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Cost:

**\$30.00 Reservations are required.**

**RSVP to Stacey Perkins:**

**(239) 275-9420**

Or

[Sperkins@trane.com](mailto:Sperkins@trane.com)

Or on line at:

[www.swflashrae.org](http://www.swflashrae.org)

## ASHRAE

ATLANTA – States must now certify that their building codes meet the requirements in ASHRAE/IESNA's 2004 energy efficiency standard, under a ruling issued by the United States Department of Energy (DOE) that finds the standard saves more energy than an earlier version.

ANSI/ASHRAE/IESNA Standard 90.1-2004, 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 Policy Act.

The Act requires all states to certify that they have state energy codes in place that are at least as stringent as 90.1-2004, or justify why they cannot comply. The DOE determined that Standard 90.1-2004 saves more energy than Standard 90.1-1999, which was the previously referenced standard in the Act.

“The quantitative analysis of the energy consumption of buildings built to Standard 90.1-2004, as compared with buildings built to Standard 90.1-1999, indicates national source energy savings of approximately 13.9 percent of commercial building energy consumption. Site energy savings are estimated to be approximately 11.9 percent,” according to the ruling published in *The Federal Register* on Dec. 30, 2008.

“ASHRAE is committed to continually improving building energy performance, so we are pleased with this recognition that the 2004 standard saves more energy,” ASHRAE President Bill Harrison said.

“ASHRAE is currently working on the 2010 version

Please see **ASHRAE** on page 3



## Presidents Message

By Sam Moreland

I want to wish everyone a Happy New Year and I hope your holidays went well. We are at the start of a new year and have some great ASHRAE events to look forward to. In addition to our last five meetings, John Abramson is renewing the pool tournament and we also have our annual backwater fishing tournament to look forward to.

The ASHRAE winter meeting is in Chicago this year. The meeting and Expo run from January 26<sup>th</sup> to the 28<sup>th</sup>. The show is on track to be the biggest ever with more than 1,800 exhibitors from 30 countries to take part. If anyone is traveling to Chicago and needs a show registration, ASHRAE sends our chapter free show registrations to distribute to the membership. I will have them at the next meeting or contact me and I will get them to you.



*Sam Moreland Southwest Florida Chapter 139 President*

Finally, it is a new year and a chance to get a fresh start on many things. I am always looking for input and ways to improve the chapter. Please contact me, or any of the other officers, if you have any comments or ideas.

Best regards,

Sam Moreland  
2008-2009 SW FL ASHRAE Chapter President

## Membership

By Autumn Spalding



*Autumn Spalding - Southwest Florida Chapter Membership Promotions Chair.*

### NEW MEMBER!

Please welcome Mark Rusnock with Precision Air Balance and also Heather Tompkins with B & I Contractors, Inc!

BE GREEN! Please go to our website [www.ashrae.org](http://www.ashrae.org) to create or re-new your membership.

### ASHRAE Winter Conference is coming!

Chicago, with one of the most recognizable skylines in the United States, has long-standing status as a livable urban center.

That the city has stood the test of time makes it the perfect backdrop for this year's Winter Conference

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theme of Sustainable Urban Design: Engineering Tomorrow... Today.

With its windy atmosphere and lake shoreline, Chicago is a reminder that resources must be conserved and environments respected even in urban settings.

Renew your  
membership online

[Visit ashrae.org](http://www.ashrae.org) to renew



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of Standard 90.1 with a goal of achieving 30 percent energy savings compared to 90.1-2004 as part of our target to achieve market-viable net-zero-energy buildings by 2015.”

“The Illuminating Engineering Society is pleased to receive the DOE’s positive determination on the site and source energy savings achieved by ANSI/ASHRAE/IES Standard 90.1-2004 compared to the 1999 standard,” said Rita Harrold, IES director of technology. She also expressed the Society’s appreciation for the contributions of the committee members responsible for developing the standard, which help further the goals of the sponsoring organizations, and for the diligence of the DOE in conducting the determination.

The DOE noted that the newer version of the standard contained 13 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 to the standard. The positive impacts include:

- Removed explicit allowance for supply air into non-occupied isolation areas.
- Limitations of the use of dampers in closed circuit cooling towers in place of water bypass valves and piping.
- Additions of insulation requirements for buried ductwork.
- Mapping of envelope requirements to new climate zones, which led to increased stringency of envelope requirements.
- Mapping of economizer requirements to new climate zones, which led to greater geographic expansion of economizer requirements.
- Addition of requirements for ventilation fan controls.
- Lowered size range for part-load fan power limitation.
- Addition of requirements for heat pump pool heaters.
- Complete replacement of interior lighting power density allowances.
- Revised exterior lighting power density allowances.
- Addition of occupancy sensor requirements for classrooms, meeting, and lunch rooms.
- Lower retail sales lighting power allowance.
- New exit sign wattage requirement.

In addition, ASHRAE is working on providing more stringent energy guidance in a proposed standard for high-performance buildings. Being developed in partnership with IESNA and the U.S. Green Building Council, Standard 189.1, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, will provide minimum requirements for the design of high-performance new commercial buildings and major renovation projects, addressing energy efficiency, a building’s impact on the atmosphere, sustainable sites, water use efficiency, materials and resources, and indoor environmental quality.

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 publishes a revised version of the standard every three years. The 2007 version of Standard 90.1 was released last year.

## Pool Tournament will be held at Diamond Billiards



1242 SW Pine Island Rd,  
Cape Coral.  
Friday February 27th.

### Details Upcoming



Past Presidents of  
Southwest Florida  
Chapter #139

1982 - 1983	Edward O'Neal, P.E.
1983 - 1984	Edward O'Neal, P.E.
1984 - 1985	Dennis Holland
1985 - 1986	Ross Montgomery
1986 - 1987	Jeff Dorini
1987 - 1988	Kermit Rood
1988 - 1989	Bill Malphus
1989 - 1990	Tom Delnay
1990 - 1991	Nelson Tarbox
1991 - 1992	Gary H. Griffin
1992 - 1993	Gary H. Griffin
1993 - 1994	Jeff Zenoniani
1994 - 1995	Lisa A. Duritsch
1995 - 1996	Jason Grabowski
1996 - 1997	James Faulkner
1997 - 1998	Robert Risley
1998 - 1999	Winifred Denius
1999 - 2000	Paul Martin
2000 - 2001	Don Pine
2001 - 2002	Randy Saul
2002 - 2003	Jason Allen
2003 - 2004	Mark Brant, PE
2004 - 2005	Guy Van Meulebrouck
2005 - 2006	John Pennington
2006 - 2007	Kurt Vega
2007 - 2008	Mike Myers

Please help us update the ASHRAE email list

email to Kurt Vega at [kurt.vega@emerson.com](mailto:kurt.vega@emerson.com).  
Or call 239-693-7200 X 218 mail to:

Kurt Vega  
Emerson Industrial Automation / Control  
Techniques.  
5580 Enterprise Parkway  
Fort Myers, FL 33905

Please include the following:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Membership # \_\_\_\_\_



## This Month's Topic

### Back Ground:

The Florida Building Energy Code – The current code and the proposed 2008 energy code.

This presentation explores the 2007 Florida Building Energy Code and the proposed updated 2008 Florida Building Energy Code, the similarities and the updates to the new code. We will investigate advanced building performance simulation standards and see the effect on both residential and commercial construction. We will also see how this can help in getting LEED certification.

The presentation includes a demonstration on EnergyGauge, a building energy simulation software.

### Guest Speaker: Mangesh Basarkar, Florida Solar Energy Center (FSEC), Research Engineer

Mangesh Basarkar is a Research Engineer in the Buildings Research Division at the Florida Solar Energy Center (FSEC). He has a strong background in Heat & Mass Transfer and Fluid Dynamics, and his research interests primarily include the use of latest simulation technologies to study airflow, energy and contaminant transport phenomena in buildings.

Additionally, he also works on the design and development of building energy simulation software like EnergyGauge Summit and EnergyPlus. Mangesh is a key member of the development team wherein he works on the design and implementation of algorithms for building envelope and HVAC component models using the latest software development platforms, as also on the implementation of various energy code compliance and performance rating standards like ASHRAE 90.1, ASHRAE 90.1 Appendix G and LEED.

As a researcher at FSEC, Mangesh has successfully completed, as PI, Co-PI and team member, several projects funded by the U.S. Department of Energy (DOE), the Florida Department of Community Affairs (DCA), the Florida Energy Office (FEO), National Center for Energy Management and Building Technologies (NCEMBT), Defense Advanced Research Projects Agency (DARPA), American Society of Heating, Refrigeration & Air Conditioning Engineers (ASHRAE), and NASA's Kennedy Space Center (KSC). He is well versed in the use of building energy simulation tools like EnergyPlus and CONTAMW, and in using numerical analysis codes like AirPak and Fluent for diverse applications.



Dan Rodgers Research Promotions RVC - John Abramson



## Southwest Florida Chapter Meeting dates:

September 11 – Modulating Kitchen Exhaust – YEA and Membership Promotion Night  
 October 9 – Panel Discussion – Preventative Maintenance, Joint Meeting with TCSCA  
 October 24 – GolftoberFest  
 November 13 – Green Maintenance – Robert Baker - Research Promotion Night  
 December 12th – Hockey Night and Germain Tour – Membership Promotion Night  
 January 15 - Don Shirey FSEC, Joint with AIA, Local USGBC Branch  
 February 12 - Ruskin – Bob Van Becelaere  
 February 27 –Pool Tournament  
 March 12 - Panel Discussion – Balancing VAVs  
 April 9 – Drury Crawley  
 April – Fishing tournament – Date TBA  
 May 14 - ASHRAE President - William Harrison

### The Officers

President – Sam Moreland 239.246.3737 [sam.moreland@gmail.com](mailto:sam.moreland@gmail.com)  
 President-Elect – Randy Munsey (239) 226-1293 [randymunsey@burchcorp.com](mailto:randymunsey@burchcorp.com)  
 Vice President – Lawrin Ellis 239.275.4240 [lawrin.ellis@tlc-eng.com](mailto:lawrin.ellis@tlc-eng.com)  
 Secretary – Stacey Perkins 239.275.9420 [sperkins@trane.com](mailto:sperkins@trane.com)  
 Treasurer – Chuck Spelman (239) 770-2930 [cspelman@spelmanengineering.com](mailto:cspelman@spelmanengineering.com)

### The Chairs

Research Promotion – John Abramson (239) 313-9612 [John.Abramson@carrier.utc.com](mailto:John.Abramson@carrier.utc.com)  
 Membership Promotion – Autumn Spalding (239) 332-4646 [aspalding@bandicontractors.com](mailto:aspalding@bandicontractors.com)  
 Historian – Jason Grabowski (239) 332-4646 [jasong@bandicontractors.com](mailto:jasong@bandicontractors.com)  
 CTTC - Lawrin Ellis 239.275.4240 [lawrin.ellis@tlc-eng.com](mailto:lawrin.ellis@tlc-eng.com)  
 Programs – Jason Hardman (239) 332-4646 [jhardman@bandicontractors.com](mailto:jhardman@bandicontractors.com)  
 Student Activities - Sean Torgerson  
 Newsletter – Kurt Vega (239) 464-3762 [kurt.vega@emerson.com](mailto:kurt.vega@emerson.com)  
 Webmaster – Mike Myers 239.275.4240 [erectormik@yahoo.com](mailto:erectormik@yahoo.com)

### Board of Governors:

Kurt Vega -(239) 464-3762 [kurt.vega@emerson.com](mailto:kurt.vega@emerson.com)  
 Mike Myers - 239.275.4240 [erectormik@yahoo.com](mailto:erectormik@yahoo.com)  
 John Pennington - (941) 627-8881 [john@boyd-hvac.com](mailto:john@boyd-hvac.com)  
 Don Pine – (239) 939-4502 [dpine@umihvac.com](mailto:dpine@umihvac.com)

### Golf Tournament Chair

Golf Tournament Chair – Woody Wilson (239) 209-6626 [wwilson@tombarrow.com](mailto:wwilson@tombarrow.com)

### Website

[www.swflashrae.org](http://www.swflashrae.org)

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