



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

American Society of Heating, Refrigeration and Air conditioning Engineers, Inc.
Southwest Florida Chapter # 139

Voted Region XII Best Newsletter for ASHRAE Year 1998-1999

October 2006 Volume 12 Issue 1



PRESIDENT'S MESSAGE

Here it is October already, where has the year gone? It seems as if just yesterday we were planning for CRC. Now it is over and we had our first meeting of the year. In case you missed it we had a joint meeting with the Tri-county Specialty Contractors Association at their facility near Southwest International Airport. Our speaker Anna Cam Fentress gave an overview of upcoming Legislative actions affecting the Industry. It was an informative session.

What's next? Well we have our meeting on Wednesday October 11th, back at Pelican Preserve's Magnolia Room. We will be offering up a Technical Session from 5:45 – 6:45, then the main event will start at 6:45. Our speaker this month is Verle Williams, PE, ASHRAE Fellow and ASHRAE Distinguished Lecturer. He will be discussing "Improving Efficiency in K-12 Schools District-Wide". Our chapter is fortunate to have yet another Distinguished Lecturer as speaker. This should be a topic that relevant to our local industry.

Don't forget to R.S.V.P. for the meeting no later than Monday October 9th. It is easy and painless. The easiest way is to go to the Chapter website www.swflashrae.org and either reserve or pay online using PayPal. Or you can phone Stacey Perkins at 239-275-9420.

The Golftober golf outing is scheduled for Friday October 20, 2006 at Pelican Preserve. If you haven't done so get your Hole Sponsors and foursomes together and register with John Pennington (239) 633-8197 or john@boyd-hvac.com. There are some pretty decent prizes this year. I won't reveal what they are but, a lot of effort has gone into putting together and excellent event this year.

November's Meeting will be held on Wednesday November 15, 2006. This is a departure from are normal meeting date of the second Wednesday of the Month. I do apologize, but am giving advance notice.

Regards

Kurt Vega
President Southwest Florida ASHRAE Chapter

OCTOBER MEETING NOTICE

Topic:

**Improving Efficiency in K-12
Schools District Wide**

Guest Speaker:

**Verle Williams PE – ASHRAE
Fellow and Distinguished Lecturer**

Meeting Location:

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

Date:

Wednesday October 11, 2006

Time:

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

Cost:

\$30.00 per member.

Reservations are a must!!

Email or call: Stacey Perkins
sperkins@trane.com or 239-275-4240

Register on-line @
www.swflashrae.org



This Month's Topic:

Improving Efficiency in K-12 Schools

Presented By: Mr. Verle Williams PE – ASHRAE Distinguished Lecturer

Topics Covered will Include:

- District Wide Energy Cost Reduction
- District "Energy Awareness Program"

**Past Presidents of
#139 Southwest Florida Chapter**

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

Please help us update the ASHRAE email list

Email to Michael Myers at mike.myers@tlc-eng.com.
Or call 239-275-4240 mail to:

Michael Myers
TLC Engineering for Architecture Inc.
1400 Colonial Blvd Suite 203
Fort Myers, FL 33907

Please include the following:

Name: _____

Address: _____

Phone: _____

Fax: _____

Email: _____

Membership # _____

Membership News

Announcing Multi-Year Dues Payment Program!

Members can now pay for up to three years of membership or associate membership in one transaction and receive a 10% discount on the second or third year of payment. If you pay for two years of membership, you will get a **\$15 discount** off the total payment! If you pay for three years of membership, you will get a **\$30 discount** off the total payment! Please note that multiyear payments must be made by phone or mail. Chapter dues payments will be accepted at headquarters with society dues payments only if chapter payments are made in the same multiyear increments. For example, when a member pays two or three years of society dues, he or she will need to pay chapter dues at the same time to headquarters in the same two or three year increments. If the member prefers to pay chapter dues one year at a time when he or she pays multi-year society dues payments, he or she will need to pay the chapter directly.

Sincerely,

Keith Enwright
Membership Promotion Chair

CRC 2006

Our Chapter sponsored the Chapters Regional Conference (CRC) for Region XII this year in Fort Myers at the Sanibel Harbor Resort.

The Conference was excellent in many respects including the attendance, planning, programs and the accommodations. This was an excellent way to start a new year for all of the Region XII Chapters.

Our Chapter wishes to thank all of the hard work by so many people that helped to make this CRC a huge success and to our many financial sponsors who helped where we needed it most.

ASHRAE Proposes New Moisture Control Standard

October 6, 2006

ATLANTA – In recent years, moisture problems such as mold growth have become big issues for building owners and operators.

Computer simulation tools have been developed to

predict thermal and moisture conditions in buildings, but the results can vary greatly with the assumptions for indoor and outdoor conditions

To help combat this issue, the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) is proposing a standard that formulates design assumptions for moisture design analysis and criteria for acceptable performance. ASHRAE's proposed Standard 160P, Design Criteria for Moisture Control in Buildings, is open for public comment until November 6, 2006. The proposed standard goes beyond prescriptive recommendations for moisture control in buildings that are currently in the ASHRAE Handbook and in building codes.

"Standard 160 gives us a methodology for the first time to make consistent design recommendations, such as the need, type and placement of vapor retarders, in any climate," says Anton TenWolde, chair of the committee that drafted the standard. "The standard requires the designer to think about the interior conditions that will be maintained in the building and the effect that may have on the building envelope."

A draft of the proposed standard is available only during the public review period. To obtain an electronic draft version of Standard 160P during the comment period, log on to ASHRAE.org at www.ashrae.org/publicreviews.

New Research from ASHRAE: Lower Temperatures, Increased Ventilation Boost Student Performance

ATLANTA – Along with pencils and paper, increased ventilation is a fundamental necessity for students returning to the classroom this fall, according to research from the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

Research shows that kids learn better in schools with better air quality. An article describing the research is featured in the October issue of the ASHRAE Journal. The research was funded by ASHRAE and conducted in Denmark. A final report is due later in the year.

The research indicates that lowering the temperature and increasing ventilation in classrooms increases student performance by 10 to 20 percent. The students' performance improved mainly in terms of how quickly they worked and also how many errors were made.

"ASHRAE looked at whether 'is it possible that Johnny can't read because Johnny can't breathe' so to speak,"

Statements made in this publication are not expression of the Society

Terry Townsend, P.E., ASHRAE President, said. “The preliminary results seem to indicate the answer is yes. The study confirms earlier ASHRAE research that increased ventilation rates positively impact productivity in buildings.”

“Environmental conditions in schools have been found to be inadequate and frequently much worse than in office buildings,” says Pawel Wargocki of the University of Denmark, who led the research team with David Wyon. “This study shows the importance of improving air quality in schools so students can have optimal learning conditions.”

Results from the research, once finalized, will be incorporated into ASHRAE technical guidance, used by engineers around the world in designing heating, ventilation, air conditioning and refrigeration systems in all types of buildings.

School officials can take several actions in response to this research to optimize learning conditions for students:

- Visit each classroom on a regular basis, particularly on warmer days, to make sure the air conditioning system is providing adequate conditions in the room, including acoustical considerations (eliminate a noisy fan). If a unit does not appear to be operating properly, get it inspected by an HVAC professional.
- Develop and adhere to a preventative maintenance program for all HVAC equipment on site. This will improve the uptime and performance of all units while also helping to extend their service life.
- Allow and encourage teachers to lower the temperature in the classroom on warmer days if they wish.
- Investigate and implement methods to reduce the heat build-up in classrooms in ways other than HVAC, such a window shading devices, building envelope sealing and insulation, or just turning lights off or down when not needed.
- Allow and encourage teachers, if appropriate, to open operable windows in the classroom on milder days so that more outside air can be introduced into the room. Set up procedures for then securing windows at end of day.
- Encourage maintenance staff to replace supply air filters more frequently, particularly during pollen season.
- Investigate the feasibility of introducing more outside air into the classrooms than codes require in an energy efficient manner with a mechanical engineer.

New Meeting Location!

Our Meeting location has changed, we will now be meeting at the Magnolia Room at Pelican Preserve.



ASHRAE 2006-2007 Chapter Meeting Dates

Meeting Date	Program	Speaker / Representative	Location
Sep. 13, 2006	Legislative Update – Actions Impacting Your Business	Anna Cam Fentriss	TCAA
Oct.11, 2006	EFFICIENCIES IN K-12 SCHOOLS	Verle Williams PE	Magnolia Room at Pelican Preserve
Oct, 20, 2006	Golftoberfest	John Pennington	Magnolia Room at Pelican Preserve
Nov. 15, 2006	Smoke Control Systems	Michael E. Myers PE	Magnolia Room at Pelican Preserve
Dec. 13, 2006	Everblades Hockey Game and Dinner		Germain Arena
Jan. 10, 2007	Conditioning of Outside Air	Ray Patenaude	Magnolia Room at Pelican Preserve
Feb 14, 2007	Thermographics and It's Application to HVAC	Jim Thompson	Magnolia Room at Pelican Preserve
Mar. 14, 2007	Controls Roundtable	TBA	Magnolia Room at Pelican Preserve
Apr. 11, 2007	Refrigeration	TBA	Magnolia Room at Pelican Preserve
Apr.,2007	7th Annual 8-Ball Pool Tournament	Lisa Duritsch	TBA
May 9, 2007	LEED and Sustainable Design	TBA	Magnolia Room at Pelican Preserve
TBA	8th Annual Backwater Fishing Tournament	Dean Sanders/ Keith Enwright	Rum Runners
TBA - June	President's Party		TBA

A.S.H.R.A.E - Southwest Florida Chapter 2006-2007 Officers and Committee Directory

Chapter Officers:

President

Kurt Vega
Ph. 239-693-7200 ext. 218
Fax. 239-693-2431

President Elect

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Vice President

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ASHRAE
1-800-527-4723

Chapter Committee Chairpersons:

Chapter Technology and Transfer Committee (CTTC)

Roger Coll
239-275-9420

Programs

Larwin Ellis
Ph. 239-275-4240

Technical, Energy, and Governmental Activities

Membership

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Resource Promotion

Sam Moreland
Ph. 239-278-1988

Chapter Committee Chairpersons:

News Letter Editor

Michael Myers
Ph. 239-275-4240
Fax. 239-275-3511

Honors and Awards

Gary Griffin
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Historian

Andy Herrera
239-278-4040

Student Activities

Robert Lesnau
Ph. 239-275-4240