



The Dewpoint

November-December Issue

November-December 2007
Volume 11, Issue 3/4

*A monthly publication of the
Central Florida Chapter
of the American Society of Heating,
Refrigeration, and Air Conditioning
Engineers, Inc.*

www.ashrae-cfl.org

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permission of the Chapter."*

Central Florida Chapter of ASHRAE
Wade Conlan Vice-President
2601 Westhall Lane Maitland, FL 32751

December Program Strategies for Analyzing Products – A Different Perspective

Thursday December 13th, 2007
Dubsdread Historic Banquet Hall
549 Par Street
Orlando, FL
(407) 650-0100

*For reservations, please go to the
Central Florida Website www.ashrae-cfl.org
and pre-pay or register to pay at
the door. Cost is \$25 in advance, \$30
for non-registered at the door.
Social 6:00 pm, Dinner 6:45pm,
Speaker's Presentation 7:00pm*

Overview of November meeting
Wade Conlan
Vice-President

November Meeting
You always hear about the Montreal Protocol (and the Kyoto) but have you ever met anyone who attended? If you came to November's meeting you would have had that opportunity. November was a Panel Session of three very influential people involved in the refrigerant world and its impact on global warming and economy. Our speakers were, in order of appearance, Julian de Bullet (with McQuay), James Wolfe (Trane) and Tony Digmanese (JCI/York).

They covered the 20th Anniversary Montreal Protocol Meeting they had recently attended and the changes and decisions made...such as the accelerated phase out of R-123 for developing countries (while there was disagreement about a change in the phase out for developed countries), and the interim meetings that will be required to achieve a reduction of global warming and the hole in the ozone faster.

Upcoming Events

Thursday, December 13th
**Strategies for Analyzing
Products**
Speaker: James Kiriazes

Thursday, January 10th
**LEED From an Owner's
Perspective**
Speaker: Doug Spencer

January 19-23rd
2008 Winter Meeting

@ New York City

Thursday, February 7th
**UFADS – Under Floor Air
Distribution Systems**
Speaker: Gary Smith

Thursday, March 13th
6th Annual Shrimp Boil

@ Winter Park Farmers Market

Thursday, April 10th
What's New in Energy Savings

Speaker: Larry Maxwell

Friday, April 18th
Spring Golf Tournament

@ Sanctuary Ridge, Clermont

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It was interesting to hear the minimal impact this has on the HVAC industry, and the major impact on the automobile and home appliance industries. They informed us that the European Union is ahead in phase-out, and is struggling with the changes required by Kyoto...so keeping our course with the Montreal Protocol and trying to do the best of what is recommended with the Kyoto Protocol (the US did not sign) will help us maintain our economy through the phase out.

They answered questions from the audience for about 30 minutes – all past the allotted meeting time. Thanks to those who stayed extra to hear what our speakers had to say. Our chapter was very lucky to have such renowned speakers.

President's Message

Mike Dillard
Chapter President

December Update

As we approach the end of 2007, almost the half-way point for our ASHRAE season, I'm reminded of all of the hard work that has gone into the chapter operations so far this year by the outstanding volunteers that have committed to serve ASHRAE Central Florida.

At the beginning of this year, the creation of the UCF Initiative Chair position launched a concerted effort to promote an HVAC Engineering Track at UCF. The effort had to have two complementary initiatives. First, we

had to create excitement the HVAC&R industry among engineering students. Second, we had to create the same excitement about the program at UCF's faculty level.

The efforts under way in Student Activities and the UCF Initiative, chaired by Megan Tosh and Jason Alphonso respectively, underscore the incredible progress this chapter is making in this area! The explosive re-emergence of the UCF Student ASHRAE Chapter and the excellent relationship between the Central Florida chapter of ASHRAE and the University of Central Florida is proof positive that the plan is working!

November's Meeting was a great success! Three industry icons, Julian R. de Bullet, James E. Wolf and Tony Digmanese provided insight into the latest Montreal Protocol refrigerant phase out issues. We greatly appreciate their willingness to assemble for the ASHRAE Central Florida members.



Get ready for 2008! The events calendar is up to date. Besides our great meetings, we're also looking forward to the Shrimp Boil in March and the Spring Golf Outing in April!

2007 is Almost behind us and there is much to be thankful for. I want to take this opportunity to wish you and yours a very merry Christmas and a happy, healthy and prosperous New Year! Let's not forget those that are in need and those that are fighting for our freedom.

Mike Dillard
mdillard@msifla.com

Future Programs

Wesley Patterson
Program Chairman (President-Elect)

ASHRAE 2008 Winter Meeting

Finally, after a long absence, ASHRAE comes back to the Big Apple. New York City will be the host of the Winter Meeting (January 19th-23rd) and the AHR EXPO (January 22nd-24th).

The Winter Meeting will offer a variety of alternatives for the inquisitive and adventurous member. Ranging from technical tours (The Helena Apartment Building, Time Warner Center, One Bryant Park and many more), fun filling events ("Jump and Jive" during members night out and the Welcome Party: Nosh and Network), to professional development courses in Solar Applications, Natural Ventilation, Healthcare Facilities. For more information, visit the ASHRAE website www.ashrae.org and click on the register online link; the early bird registration ends December 14th, so act fast and save!

Shrimp Boil – A Great Tradition Continues...

Members, mark your calendar for the Sixth Annual Shrimp Boil, which will be hosted on Thursday March 13th at the Winter Park Farmer's Market. This is great opportunity to come out and have a blast will fellow professionals of the Central Florida HVAC industry while enjoying great Cajun cuisine and live entertainment!

Your ideas are always welcome...

If you have any suggestions regarding meetings or technical seminars, please contact Wesley Patterson (Programs Chair and President-Elect).

Membership

Amy Pastor
Membership Promotion

Calling all Members!

I look forward to another great year or growth and membership upgrades for our chapter. We currently have 378 chapter members AND WE WANT

Continued from Page 1

Upcoming Events

Wednesday, May 7th
ASHRAE/ASPE Product Show
Central Florida Fairgrounds

Thursday, May 8th
Designing for Absolute Moisture Control
Mark Nunnally, PE

June 21-25th
2008 Annual Meeting
Salt Lake City, Utah

August
2008 Region XII CRC
Argentina

MORE!! With our new connection to the University of Central Florida, we have added many new student members, along with upgrading those students upon graduation. There are things that you can do to help bring in new members. Invite a friend to a monthly meeting. Tell colleagues about the meetings. Spread the word around the office! A calling committee has been set up so you'll be hearing from us!

Annual Dues/Chapter Dues

Please be sure to check your membership renewal. With the new rolling enrollment, you may forget to pay your yearly dues! It is also important that you pay your chapter dues online. Since this option is missed by many members, a committee has been set up to help ensure that all chapter dues are paid to Central Florida.

Membership-Changes and Status

There are a lot of opportunities for general members to upgrade their membership. Please be sure to check your membership status. If you have changed employers, moved and/or are unsure of your current membership status, please call Society at 800-5AS-HRAE (527-4723) or contact Amy Pastor at 407-580-2088 or apastor@x-nth.com.

Student Activities

Megan Tosh

**Student Activities Chair
Fall Update**

October's chapter meeting was Student Night and the UCF Students were there in full force. Eleven students turned out for the meeting, including many new faces. We are happy with the turnout and thank everyone for their support. If you would like to help ASHRAE continue to support our students, please visit our chapter website, www.ashrae-cfl.org, and sponsor a student dinner.



Students Attending October's Chapter Meeting

On Friday, October 12, ASHRAE at UCF toured the Florida Hospital facilities. Firouz Keikavousi showed the students how ultraviolet lights are used in air handler units and how controls are used to manage large facilities. The students got to see the pump rooms, the giant air handlers and the new mechanical building under construction.



Students at Florida Hospital Tour

On October 30th, the Senior Design students at UCF working on the ASHRAE International Design Competition toured the RDV Sportsplex in Maitland. This year's competition is based around a 60,000ft² recreational center in Nashville, Tennessee with an indoor pool – very similar to the facilities at RDV. A special thanks goes out to Wade Conlan for hosting our tour!

You're probably aware that UCF won its first homecoming game in the new Bright House Networks Stadium, 47-13 against Marshall. But, did you know that ASHRAE at UCF nominated both male and female nominees to this year's homecoming court? Anik Patel and Margaret Strauser-Booth both represented ASHRAE and made it into

the top twelve pool of candidates. Congratulations to the students! We hope to see more candidates in the years to come.

ASHRAE at UCF held their third and final meeting for the Fall 2007 semester on Wednesday, November 7th. There was a fantastic turnout to hear John Fabian with Xnth speak about basic HVAC systems. Following John's presentation, an inspiring question and answer session was held, giving students the opportunity to learn about transitioning from college to a career in the HVAC&R industry. As an added bonus, a controls demonstration was done by a meeting attendee, educating the students on the capability to remotely access building automation systems through the internet. Student Activities thanks John Fabian for volunteering his time to speak to the student chapter.

November's chapter meeting marked the largest turnout of students we've ever had at a monthly meeting. Fifteen students came to see the panel discussion about refrigerant phase out and network with local industry professionals. Thank you to all the companies and individuals who make it possible for CFL ASHRAE to host these students. If you would like to help ASHRAE continue to support our students, please visit our chapter website, www.ashrae-cfl.org, and sponsor a student dinner.



Students Attending November's Chapter Meeting

The annual Discover! event for Girl Scouts, hosted by the Society of Women Engineers (SWE) is no longer being held this November. They are working

to reschedule the event for sometime in January.

Tuesday, November 23rd marked the first social event held by the ASHRAE at UCF chapter. The event was held on campus, at Wackadoo's in the student union. Students came by to shoot some pool, enjoy some snacks, and socialize with their peers and local professionals. The event was sponsored by Johnson Controls, Stan Weaver Company, Florida Hospital, Peninsula Engineering and Tom Barrow Company. Thanks to Wackadoo's and our sponsors for helping to make this event a success!



Students Shooting a Game of Pool at the ASHRAE at UCF Social



Students Chat with Larry Stoff, our Student Activities RVC

As the Fall 2007 semester wraps up at UCF, plans for the Spring 2008 semester have already been made. Here's a quick preview of events happening in the first half of the Spring semester to keep your calendar open for:

January 24th or 31st – Social Event at Gator's Dockside in Waterford Lakes: Come Join Us for pool, food, drinks and fun!

February 29th (tentative) – Industry tour of NASA's HVAC facilities at the launch pad

March 5th – Resume Workshop for UCF Students; If you hire young engineers and/or interns and are interested in helping us with our hands-on workshop, contact us at: ashrae.ucf@gmail.com

March 6th – Social Event, venue to be determined

To see our full calendar, check out the website that will be posted soon at [www.cecs.ucf.edu/clubs/ashrae/!](http://www.cecs.ucf.edu/clubs/ashrae/)

CTTC

Chapter Technology Transfer Committee

Article: "How Far Can You Go?"

By Kyra Epstein

Review

The latest in energy-efficient buildings can be seen in the Pearl River Tower, a 71-floor office tower located in the Tropical port city of Guangzhou, China. This icon of progress has a design that uses 60% less energy (when compared to an ANSI/ASHRAE/IESNA Standard 90.1-2004 Low Rise Building), uses photovoltaics, and wind turbines. Although its efficiency is 58% less than Chinese building code requirements, its unique design and architecture can still make it the most energy efficient super-tall tower the world has ever seen.

Currently the project is twelve million dollars higher in costs than a building that meets Standard 90.1 minimum requirements. These additional costs can be recovered in five years time from the reduced energy costs and the increment of space that can be acquired by selecting smaller HVAC equipment. One of the elements of this energy-efficient design is the radiant cooling system (the largest in the world). This technology is rare in China but it will be the biggest energy saver.

The radiant cooling system works by having metal panels containing tube

passages filled with chilled water. These panels are located throughout the ceiling of occupied spaces. As the chilled water flows through, the radiant cooling surface (pipe passages in metal panels) absorbed the heat from below and cools the space. Because cooling is no longer obtained by moving air throughout the building, the necessary equipment (Fan Coil Units and Variable-Air-Volume boxes) that would have been required is no longer needed. Thus, saving the money for purchase and maintenance (changing air filters, air balancing the equipment, coil cleaning, etc.) and the energy needed to run this equipment.

The ventilation system used for breathing is an underfloor air distribution system (UFADS). This system will supply fresh outside-only air to the occupied space with the help of swirled diffusers; by using swirled diffusers air can be better mixed in the space; this ventilation system is located underneath the raised floor for every level designated as office space. The advantage of using this "once-through" ventilation system is that it will reduce the risk of airborne viruses and odors from being present while the space is occupied. Because air is not used for cooling, the small amount of outside air that is brought in for breathing is not too high in cost or difficult to cool. This results in the use of fewer fans and smaller vertical shafts running through the building, leading to an increase of occupant space.

For more information on this super-tower (its double wall façade that serves as a solar-powered dehumidification system and the use of photovoltaic technology and wind turbine use for internal power generation), please visit the www.ashrae.org website and click on the High Performance Buildings link to view the current issue.

Newpoint- Newsletter Notes

Leo Rocha
Newsletter Editor

Publication Deadlines

The *Dewpoint* is published monthly – seven days before the monthly meeting. Please submit articles to be included in advance of the following deadline dates:

Meeting Date	Article Deadline
Thurs Dec-13	Fri Nov-30
Thurs Jan-10	Fri Dec-28
Thurs Feb-7	Fri Jan -25
Thurs Mar-13	Fri Feb-29
Thurs Apr-10	Fri Mar-28
Thurs May-8	Fri Apr-25

Employment and Education

If your company is looking for individuals with particular skills to fill a position at your firm, or if your company is offering professional technical, continuing education or other learning opportunities of interest to our membership, the Central Florida Chapter of ASHRAE will publish your education/employment announcement at no charge.

Spring 2008 Golf Outing

Firouz Keikavousi
Golf Tournament Chair

Invitations

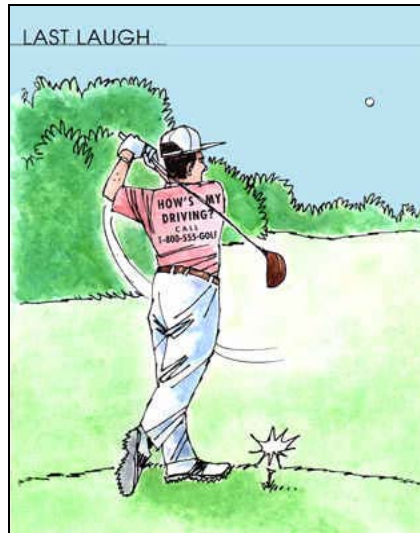
Please join the Central Florida Chapter of ASHRAE on Friday April 18th for this traditional event.

Location

The location of the Spring Golf Outing will be announced on the January 2008 Dewpoint Newsletter.

Entry Form

For more information on the Spring Golf Outing, please contact Firouz Keikavousi at: 407-303-1141 (Office) or Firouz.Keikavousi@flhosp.org



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Chapter Past Presidents

James A. Oberlin	1962-63
James A. Driver	1963-64
Warren L. Chase	1964-65
Kenneth E. Hayes	1965-66
Lloyd H. Boissoneault	1966-67
William C. Denson, PE	1967-68
Maynard D. Reese	1968-69
William R. Penn	1969-70
Theodore H. Brooks	1970-71
J. Wesley Floreth	1971-72
Wiley M. Cauthen	1972-73
Edwin C. Pratt	1973-74
Lyle M. Houser, Jr, PE	1974-75
Hal A. Head, PE	1975-76
Garth E. Tristram	1976-77
Raymond E. Davis	1977-78
W. Hugh Wilson, Jr	1978-79
William M. Dillard	1979-80
John D. Simmonds, PE	1980-81
Joseph K. McCarthy	1981-82
Dwayne Lorenze	1982-83
David Wassman, PE	1983-84
David Krause	1984-85
Bill Watford	1985-86
John J. Asendorf, PE	1986-87
Melvin Borczynski	1987-88
Jack Zelsman	1988-89
Kenneth L. Eiermann, PE	1989-90
Kevin K. McKenzie, PE	1990-91
Todd S. Morgan, PE	1991-92
Firouz Keikavousi	1992-93
John Elsea	1993-94
Bernard Horne	1994-95
Mark Lanier	1995-96
Larry Snyder	1996-97
Bill Leaton	1997-98
Hossein Dayi, PE	1998-99
Gary Carver, PE	1999-00
Michael Sheerin, PE	2000-01
Traci Just	2001-02
Chris Bradford	2002-03
Dan Cross, PE	2003-04
Damon Lynn, PE	2004-05
Todd Moore, PE	2005-06
Tim Citek	2006-07

Chapter Leadership

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firouz@gmail.com

Central Florida Chapter of ASHRAE
Wade Conlan Vice-President
2601 Westhall Lane Maitland, FL 32751

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ADDRESS CORRECTION REQUESTED





ASHRAE/ASPE PRODUCT SHOW

C/O Aqua Air Products of Florida
5462 Lake Howell Road
Winter Park, FL 32792

Thank you for registering to participate in the 2008 ASHRAE/ASPE show on May 7th 2008. We are all planning, with your help, on having the best and most productive show ever. Please do not hesitate to contact me with any questions you might have regarding the show.

Hours for the show are scheduled from 3:00pm to 8:00pm. You may set-up anytime between 11:00pm and 2:00pm. Please be reminded that the vender set-up entrance is on the south side of the building facing Colonial Drive. That entrance is only open during the set-up and teardown and all items must be removed directly after the show. As in the past year we are asking that those venders that wish to contribute door prizes to be given away during the show bring them clearly marked with their business card to the ASHRAE/ASPE booth at the beginning of the show.

Enclosed please find your tickets (10 per booth) for distribution to your invited guests.

Vender Name _____

Booth# _____

See you on May 7th!!

Tim Citek
Aqua Air Products of Florida
5462 Lake Howell Rd.
Winter Park, FL 32792
Office: 407-671-3739 ☎ Cell: 321-297-8404
tcitek@aquaairproducts.com



ASHRAE/ASPE 2008 PRODUCT SHOW



The annual gathering of the Central Florida Chapters Products Show will allow the affiliate members to display their products and services to the Engineers, Contractors, Hospital and School Maintenance personnel within our trading area.

WHERE: CENTRAL FLORIDA FAIR GROUNDS
4603 West Colonial Drive
(Main Exhibition Hall)
Orlando, Florida

WHEN: May 7, 2008
Setup Time: 11:00a.m to 2:00p.m
Seminar: 1:00p.m to 5:00p.m
Product Show: 3:00p.m to 8:00p.m

COST:	<u>Member</u>	<u>Non-Member</u>	<u>Due Date</u>
	\$375.00	\$425.00	March 1, 2008
	\$475.00	\$525.00	March 1, 2008

Price includes: 10'x12' (approx.) 30"x96" table with paper cover, two chairs, 110 volt power, dinner payment and 10 entrance tickets for distribution to engineers/designers, architect, contractors and maintenance personnel which will provide free admission and dinner/non-alcoholic beverages. Non-participation reps and vendors will be charged a \$10.00 entrance fee at the door.

Payment: *Make checks payable to* The Central Florida Chapter of ASHREA *and mail with application to:*

ASHRAE
C/O Aqua Air Product of Florida
5462 Lake Howell Road
Winter Park, FL 32792

In order to guarantee the above rates, payment MUST be postmarked by the above due dates. These dates will be enforced. Table reservations are first come - first served upon receipt of payment. All attempts will be made to provide your table choices, however, final assignment is at the discretion of the committee.

Yes, I/we would like to participate in the ASPE/ ASHRAE PRODUCT SHOW on May 7, 2008

NAME OF COMPANY:

Number of spaces required: _____ Spaces Table #'s: 1st Choice _____ 2nd Choice _____ 3rd Choice _____
(spaces will be assigned, NO GUARANTEE)

PAYMENT OF \$ _____ ENCLOSED

Please sign your name: _____ ASPE or AHRAE
Membership No. _____

8 _____ Give name and address of person to receive tickets for the show:

Please list names of reps who will be attending the show and working in your booth space:

ASHRAE/ASPE 2008 PRODUCT SHOW

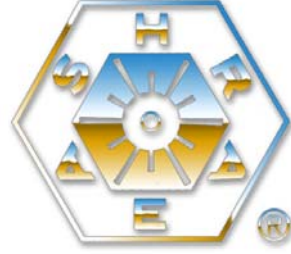


EXHIBIT HALL BOOTH FLOOR PLAN

