American Society of Heating, Refrigeration and Air Conditioning Engineers



Florida West Coast Chapter ASHRAE 3203 Queen Palm Drive Tampa, Florida 33619

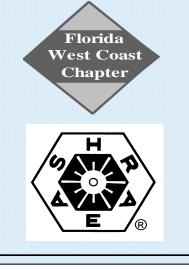
Keeping it Cool with ASHRAE

Special points of interest:

- The next FWC Meeting of the new year will be Tuesday, January the 18th at The Columbia.
- Have a great Christmas and New Year!



Inside this issue:	
Presidential Address	1
Programs	1
Research Promotion	2
Refrigeration	3
ASHRAE Shirt Flyer	5
ASHRAE Learning Institute	6



From the Desk of the President

What? December already? Great that means Santa is coming. I'm not 100% sure the "nice's" will outweigh the "naughty's" this year; could mean trouble for me. I'll probably get a new psych chart or maybe finally get someone to print that fan curve that makes my computer crash every time I try to print it.

I hope everyone enjoyed the Bucs game on December 5th. Shawn Jeffrey put on a great event that helped put over \$500 to ASHRAE Research Promotion. We will not be having a regular meeting this month so I would like to take this opportunity to wish all our members a Merry Christmas.

Jeff Ross, FWC President (2010-2011)

Program Events

The Florida West Coast Chapter had an excellent event on December 5th for the Tampa Bay Buccaneers / Atlanta Falcons game. We had over 40 people show up for a great BBQ / Tail-gate then off to the game that was more reminiscent of a northern football game then one in Florida. In case you don't get my meaning, it was COLD! Very cold, some people (myself included) didn't plan for such a cold day and wore shorts. Suffice to say that won't happen again.

I would like to thank Malia Powers and Luvata for sponsoring the event. With their help and the support of the Florida West Coast Chapter we raised over \$500 for Research Promotion.

Thanks to all who supported this event!

Shawn Jeffrey, Jr., FWC Programs Chair (2010-2011)



Volume IX, Issue 5

Let me start by personally thanking each and every investor both individual and corporate, it is because of you that the Florida West Coast Chapter continues to set the standard and lead the way, not only in Region XII but on a national level.

As of November 31, the Florida West Coast Chapter has collected over \$ 5,283.32, please be sure to recognize those investors that are listed in this newsletter.

The Florida West Coast Chapter is leading the entire Region XII in our collecting efforts; our next goal is to reach 30% by 15 December 2010. Please help us by making you tax deductible donation this year.

If you have not yet donated, please consider making your tax deductible donation this month for 2010!!!

Please make your contributions early this year either by check 'Payable to ASHRAE Research' and turn them in to me or if you prefer you can make online donations at <u>https://www.ashrae.org/aboutus/</u>resource_promotion.asp.

If you make a donation online, please forward me a copy of the emailed invoice so I can ensure that proper credit is given at <u>jason@vickerycompany.com</u>.

As of November 31, 2010, we are at 23.3 % of our goal; remember if you make your tax deductible before December 31, 2010 you can use it on this year's tax return. Please contact me at jason@vickerycompany.com for your receipt for tax purposes.

Jason Proctor FWC Membership Chair (2010-2011)

Membership Promotion

Membership Advancement: Why me, because you have earned your advancement. Greetings from your Florida West Coast Chapter of ASHRAE. In talking to several members, they were unaware that they could advance to the level of member from associate or from student member to associate. A few didn't realize that there were different grades which I take on as a failure on my part for not bringing this in front of the greatest chapter on this green earth. Here is the breakdown of a few of the grades in ASHARE with a brief description of your benefits:

Life Member/Life Associate Member

Be in Good standing and a member or associate member for 30 years or greater and 65 years old. **Rights and privileges of most recent membership grade**

<u>Member</u>

At the time of admission or advancement, a Member shall have the equivalent of 12 Society-approved years of experience composed of an approved combination of: (1) completed education beyond high school; (2) work experience*; and (3) professional engineering or related registration or license issued by a legally authorized body. *Qualifying work experience must be in the performance of duties in work related to ASHRAE fields and shall have included research, teaching, design, contracting, engineering sales, or engineering management.

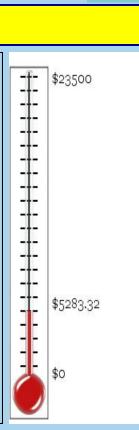
Members have voting privileges; receive the ASHRAE Journal, Insights, ASHRAE handbook and the eNewsetters; Access to the Members only website; discounts on ASHRAE products and services; and access to group insurance.

<u>Associate</u>

An Associate Member shall have had experience in technical matters or in design, operation, or maintenance in HVAC&R fields; shall have an interest in the advancement of the Society's aims, and shall possess sufficient qualifications to cooperate with HVAC&R engineers in the advancement of the knowledge relating to HVAC&R engineering and its application.

Associate Members have voting privileges; receive the ASHRAE Journal, Insights, ASHRAE handbook and the eNewsetters; Access to the Members only website; discounts on ASHRAE products and services; and Group insurance.

Keeping it Cool with ASHRAE



Page 2

Refrigeration

A Little History on Vehicle Refrigerants

Not long ago, all vehicles on the market used an efficient, but bad for the environment, refrigerant commonly referred to from the brand name, Freon. The scientific name of R-12 is dichlorodifluoromethane which is a chlorofluorocarbon (CFC). R-12 was commonly found in refrigeration applications and as a propellant for aerosol cans. Fast forwarding to 1994, the Montreal Protocol called for a ban of R-12 due to the potential damage to the ozone layer.

The primary **R-12** replacement refrigerant for the US vehicle market has been **R-134a**. Interestingly enough, there are signs that even **R-134a** may soon be replaced by a refrigerant with a lower global warming potential (GWP). **R-134a** is a hydro-fluorocarbon (HFC) that has a zero ozone depletion potential (ODP) but a global warming potential (GWP) that is seen as relatively high. In 2006, the European Union has started a phase-out schedule for **R-134a** in vehicle applications.

Refrigerant	ODP	GWP	Flammability Classification
CFC-12	1	8100	Non-Flammable
CFC-22	0.05	1700	Non-Flammable
HFC-134a	0	1410	Non-Flammable
HFO-1234yf	0	4	Mild Flammability (2L)

The big question is what refrigerant should replace **R-134a**? A recently developed refrigerant looks promising as an **R-134a** replacement in the vehicle market. That refrigerant is a hydrofluoro-olefin refrigerant, **HFO-1234yf**, known by its brand name, Opteon. It is a non-ozone depleting refrigerant with a relatively low GWP of 4. One of the attractive features of **HFO-1234yf** is that it is nearly a "drop in" replacement for **R-134a**. The same cannot be said of **R-152a**, which is another **R-134a** replacement candidate. Below is a table that lists out some of the characteristics of two commonly used vehicle refrigerants and this newer refrigerant.

The world of refrigerants continues to change and evolve to find those near perfect properties that balance system capacity and efficiency with low environmental impact and flammability. It's a tough balancing act. The good news is that numerous companies in the refrigerant market continue to spend time and resources to spur further innovation.

Adam Park, Refrigeration Chair (2010-2011)

Membership Promotion (Cont.)

Affiliate

Continued from Page 2.

An Affiliate Member shall have had HVAC&R experience; Interest in Society's goals; must be a new member (cannot have ever held Student Member status).

This is an <u>introductory</u> membership into ASHRAE that automatically graduates to Associate Member after 3 years.

Student

In approved course of study in Society-related field; must be a full-time student

Student Members receive the ASHRAE Journal, Insights, the eNewsetters; discounts on ASHRAE products and services.

If you have any questions regarding your membership, please contact me at your earliest convenience. You can contact me at <u>piean@stanweaver.com</u> or call Stan Weaver and Company at 813-879-0383. If I am not available ask for Jackie Johnson or Stan Weaver.

Philippe Jean, PE Membership Promotion Chair (2010-2011)

Page 3

Page 4

Past Presidents

1957-58 Karl K. Hickman 1958-59 Sam F. Graziano 1959-60 Julian Johnson 1960-61 Ken Whittington 1961-62 Mark E. Mooney 1962-63 James A. Hargan 1963-64 Daniel R. Manrique 1964-65 E. J. Bauerlien 1965-66 Henry Graham 1966-67 Richard Kohle 1967-68 Lamar King/Leland B. Menard 1968-69 Ed Fuller 1969-70 William A. Smith 1970-71 Fareed T. Ossi 1971-72 Lee Bendall 1972-73 John Degian 1973-74 Mark Chambers 1974-75 Charles "Stan" Weaver 1975-76 Charles D. Jacobs 1976-77 Peter Scott 1977-78 Ray Rinke 1978-79 Lloyd H. Biossoneault 1979-80 James H. Carroll, Jr. 1980-81 S. Michael Tappouni 1981-82 Alberto J. Sanchez 1982-83 James L. Repp 1983-84 Rodney C. Thomas

1984-85 Charles E. Langbein 1985-86 Thomas H. Williams 1986-87 Caire A. Boe 1987-88 Frank Grandinetti 1988-89 Carl B. Lawson 1989-90 Robert M. Little 1990-91 Edward C. Spivey 1991-92 Robert P. Sutton 1992-93 Roger B. Redman 1993-94 Stephen A. Chittenden 1994-95 William M. Slade 1995-96 Juan A. Soler 1996-97 Timothy J. Citek 1997-98 Mark Smith 1998-99 Joseph Griner, III 1999-00 Colleen Smith 2000-01 John W. Wells. III 2001-02 Garv Stenlund 2002-03 Bill Wright 2003-04 Don Crosby 2004-05 Ted S. Hansen, Sr. 2005-2006 P.J. Crespo 2006-2007 Dan Herrera 2007-2008 Jennifer Isenbeck 2008-2009 Debie Horsey 2009-2010 Drew Elsberry

Your Florida West Coast Chapter website has been updated and is looking for more content! Is there information you would like to see made available online? Do you have questions about the Florida West Coast Chapter? Let us know! Feel free to email your Cyber Chair, **Jason Babinec** with any concerns or comments.

This home page is maintained by the Florida West Coast Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. ASHRAE chapters may not act for the Society and the information presented here has not had Society review. To learn more about ASHRAE activities on an international level, contact the ASHRAE home page at <u>http://www.ashrae.org</u>.

Research Promotion Florida West Coast Chapter Corporate & Individual Sponsors 2010

Bronze

Advanced Automation Systems Air Mechanical & Service Corporation

Antique

Original Solutions Consulting Engineering Associates Slade Ross

Honor Roll

Vickery & Company Luvata Electrofin

Individual Investors

Al Sanchez Murray Woodgate Joe Souza Jason Proctor Shawn Jeffrey Jeffrey Ross Joe Cox Raoul Webb Phillippe Jean Dan Rogers Carl Lawson John Sigenthaler Thomas Williams Robert Barstow

The ASHRAE Florida West Coast Chapter would like to thank all those who have donated this year already.

Jeff Ross President 813-918-8252	Shawn Jeffrey Pres. Elect/Programs 813-731-1062	U.P./Research Promotion 813-917-1648	Philippe Jean Membership/Education 813-541-3516	Joe Souza Treasurer/TEGA 813-309-2155	Joe Cox Secretary/Student Chair 813-763-9654
Debie Horsey YEA Chair 813-97748-9406	Dan Herrera Historian 813-839-0506	David Henry Governor 813-310-8977	Adam Parke Refrigeration 813-228-1755	Mike Costello Publicity/Governo 813-300-4662	Michael Cowles Newsletter/Governor 813-241-6488
Drew Elsberry Nominating/Governor 813-267-0973	Ike CrimmSpecial Events813-758-2749	Leon Boe Reception 813-879-0383	Jason Babinec Cyber Chair 813-241-6488	Jason Proctor Chapter Roster 813-917-1648	Nominations/Governor 813-635-2271

American Society of Heating, Refrigeration and Air Conditioning Engineers



Florida West Coast Chapter AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS

ASHRAE Logo Shirts Order Form

Name	
ASHRAE Chapter	
Shipping Address	
	_Zip Code
Phone:	
Email:	

All proceeds will go to Research Promotion



Men's: Blue/White Stripe

Small, Qty: Medium, Qty: Large, Qty: X-Large, Qty: XX-Large, Qty:



Women's Columbia (Green)

Small,	Qty:
Medium,	Qty:
Large,	Qty:
X-Large,	Qty:
XX-Large,	Qty:

\$65.00 each (includes S&H)



Women's: Silk/Cotton (Light Pink)

Small,
Medium,
Large,
X-Large,
XX-Large,

Qty:_
Qty:_
Qty:
Qty:_
Qty:

Price:

Payment (circle one):: Cash

Credit Card (Contact David Henry) david@noaddress.com 813-310-8977

Check (Make check payable to ASHRAE FWC)

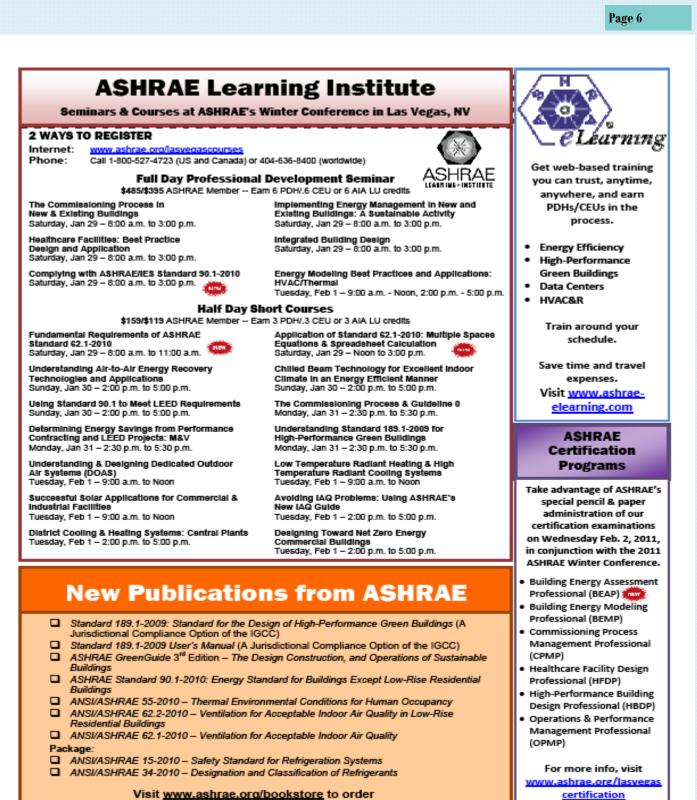
CHAPTER

Total Payment:





Page 5





Volume IX, Issue

Florida WestCoast

CHAPTER