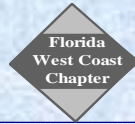


Keeping it Cool with ASHRAE



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

From the Desk of the President



Well we have returned from Costa Rica leaving behind many memories and came back with a liver the size of Rhode Island; however, the Florida West Coast Chapter under the focused leadership of Jennifer Isenbeck with her minions (Jeff Ross, Jason Proctor and Shawn Jeffrey) have done the seemingly impossible which was schedule, planned and implemented a CRC in a foreign country in less than 9 months. All in attendance had a great time (some more so than others) and the Region XII folks were extremely happy with the outcome. Congratulations to Jen, Jeff, Jason and myself for stepping up when the region needed help.

San Jose, Costa Rica is a five hour flight and which the scheduling of the workshops this equates to needing two days of travel for four hours of training. That being said, you can be proud of the dedication of your officers and committee chairs for making the long trip and representing the FWC chapter. FWC members in attendance where Malia Powers, Debie Horsey, Mike Costello, Leon Boe, Philippe Jean, Joe Souza, Ross Montgomery, Jennifer Isenbeck, Jeff Ross, Jason Proctor, Ted Hansen, and Dan Rogers.

The FWC is coming off a banner year in which we look forward to building on that momentum that Jeff "we get points for that" Ross re-instilled into the board. I want you all to know that your board is working diligently to make this one of the best years in Florida West Coast Chapter History. With that idea in mind we do not want to operate in a vacuum, so if you have any suggestions or ideas for your board please bring them to our attention and we will see what we can do. Some Honors & Awards to note from the CRC are:

Inside this issue:

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Jeff Ross

- Presidential Award of Excellence (improvements in membership, attendance, Research Promotion, education, chapter programs and technology)
- Star Award (for chapter operations)
- Presidential Award of Excellence (for dedication and support of ASHRAE's mission to promote a sustainable world)

Shawn Jeffrey

- Best CTTC Chapter Chair in Region XII
- Best Government Activities in Region XII

Jason Proctor

- Certificate for reaching his goal of \$23,500
- Silver Chapter Ribbon (chapter donation over \$5000.00)
- Full Circle (all officers donated to research, FWC was 3rd in the country to do this)

Mike Cowles

- Best Chapter Newsletter in Region XII

Al Lopera (Sarasota/Bradenton Section)

- Best Section in Region XII

Lastly, I would like to thank all of the sponsors who supported the FWC for the CRC in Costa Rica, without them we wouldn't have been able to accomplish all that we did!

Shawn M. Jeffrey, Sr.
FWC President (2011-2012)



Research Promotion

It is my honor to serve you as your Florida West Coast Chapter of ASHRAE resource promotions chair. ASHRAE Research plays a huge role in all aspects of our industry. Many of the tools that we use to design, build and retrofit our institutions come from the standards that ASHRAE Research Promotion funds. Our health, office, home, & school environments as well as the the food we eat are all affected by the research that ASHRAE funds every year. None of this could be accomplished without the support of the main building block of ASHRAE, you. I will be reaching out to all of you shortly to ask for your support of the following 5 year goals of ASHRAE Research.

Goal 1: Maximize the actual operational energy performance of buildings and facilities.

Goal 2: Progress toward Advanced Energy Design Guides (AEDG) and cost-effective net-zero-energy (NZE) buildings.

Goal 3: To reduce significantly the energy consumption for HVAC&R, water heating and lighting in existing homes.

Goal 4: Significantly advance our understanding of the impact of indoor environmental quality (IEQ) on work performance, health symptoms and perceived environmental quality in offices, providing a basis for improvements in ASHRAE standards, guidelines, HVAC&R designs and operation practices.

Goal 5: Support the development of ASHRAE energy standards and reduce effort required to demonstrate compliance.

Goal 6: Building Information Modeling of energy efficient, high performing buildings. BIM is a rapidly developing field of knowledge which stretches beyond the traditional boundaries of the HVAC&R industry to the wider construction sector.

Goal 7: Support development of tools, procedures and methods suitable for designing low-energy buildings.

Goal 8: Facilitate the use of natural and low global warming potential (GWP) synthetic refrigerants and seek methods to reduce their charge.

Goal 9: Support the development of improved HVAC&R components ranging from residential through commercial to provide improved system efficiency, affordability, reliability and safety.

Goal 10: Significantly increase the understanding of energy efficiency, environmental quality and the design of buildings in engineering and architectural education.

Goal 11: Understand influences of HVAC&R on airborne pathogen transmission in public spaces and develop effective control strategies.

These goals can only be achieved by the generous support of ASHRAE by committed citizens of our industry. Please help us all achieve these goals one donation at a time. Together we are ASHRAE.

Philippe Jean, PE, LEED AP
Research Promotion Chair (2011-2012)

How to Contribute to ASHRAE Made Easy

2010-2011 ASHRAE RESEARCH Florida West Coast Chapter Contribution Form

This industry gives all of us our livelihood. ASHRAE's research and educational programs are what keeps our industry and profession on the leading edge and assures its continued existence. Confident that you will recognize the benefits of this investment, I am asking you to help fund future HVAC&R research and development.

Together, we can all make a difference!

Amount enclosed: ___ \$250 ___ \$150 ___ \$100 ___ \$50 ___ Other (specify) _____

Name: _____

Address: _____

Phone Number: _____ Member Number (If known): _____

Mail completed form with your check, payable to ASHRAE Research to:

Stan Weaver and Company

Philippe Jean

4607 North Cortez Avenue

Tampa, FL 33614

Membership Promotion

Society has challenged us to expand our membership this year and we need your help. I presume that all of our FWC chapter members recognize the benefits that Society membership offers, especially during these challenging times. Unfortunately, FWC has seen a significant number of members leave the chapter due to economic conditions and I want to be certain that our membership is aware of the hardship provisions that Society offers. Members often drop off the roster when searching for work and membership dues take a back seat to family needs, so ASHRAE has devised a program to waive dues during these trying times. Networking opportunities available through ASHRAE membership may just be the key to your next job offer.

Please contact me directly if I can be of assistance.

Membership Reminders:

- Membership lasts one year
- Associates and Members can renew for three years at a time
- The day after members expire until 90 days past due, they are active and unpaid
- 90 – 180 days past due they are active and in grace status 181 days past due they are cancelled
- Cancelled members cannot *renew* online, but they can *rejoin* online (*reinstating with application*)
Logon to ASHRAE.org and click Join ASHRAE
- Cancelled members who want to *reinstate with back dues* must contact ASHRAE headquarters

Additionally, for our new engineers, Society has instituted a 20-50-50 program to help launch your careers. An active student member who has graduated from school may enroll in the program and enjoy all of the benefits of an Associate Member for \$20 during the first year and \$50 for the second and third year. ASHRAE is actively working to draw young engineers to Society, and your help identifying our future members is crucial to the success of the program.

Lastly, the membership committee is seeking volunteers that would like to help grow the chapter. Joining the membership committee provides our volunteers with exceptional exposure to chapter operations, and the satisfaction of knowing that your efforts will avail the benefits of ASHRAE membership to our peers.

Joe Souza
Membership Promotion Chair (2011-2012)



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Job Opportunity

Junior Mechanical Engineer

Immediate opening for individual with 3-5 years experience in designing mechanical and plumbing systems for the commercial sector.

Minimum 3-5 years AutoCad experience required.

Must have knowledge of Florida Building Code and ASHRAE standards. Excellent interpersonal and communication skills are essential for this position. Responsibilities include construction document preparation, plumbing/mechanical design, and inspection services. Some travel required.

Please email resume to Amber McCarthy at GLE Associates, Inc, amccarthy@gleassociates.com.

Refrigeration in the National ASHRAE News

Eighteen months after the Obama administration came out with new rules to stop refrigerants in air conditioners from thinning the Earth's protective ozone layer, an unexpected quirk has divided the industry and could have implications for the atmosphere.

Much of the equipment being installed in American homes is still getting its cooling power from an ozone-depleting gas that was supposed to be phased out, says a group of disgruntled appliance makers, including the makers of Carrier and Trane air conditioners.

Five companies wrote a [letter](#) (pdf) to EPA Administrator Lisa Jackson this week saying the agency inadvertently left a loophole in a 2009 rule to enforce the Montreal Protocol, a 1989 treaty crafted to repair the hole in the ozone layer.

The treaty requires the United States to cut its consumption of hydrochlorofluorocarbon-22, or HCFC-22, a refrigerant widely used in air conditioners for decades, by 90 percent from baseline levels by 2015 and eliminate its use entirely by 2030. That means all air conditioners will eventually need to stop using the refrigerant, also known as R-22, in favor of another gas called R-410A.

But after the [rules](#) (pdf) came out in late 2009, a few companies realized they could make the old models "dry" -- meaning the refrigerant is not included -- and market them as a lower-cost option for homeowners and businesses with broken air conditioning systems.

Despite the EPA rules, air conditioning units that need HCFC-22 now make up 10 to 20 percent of all sales, according to industry estimates. Just about everyone is making the R-22 air conditioners again and selling them dry under the pressure of market forces. "We had planned all along for these to go away," said Francis Dietz, vice president of public affairs at the Air Conditioning, Heating, and Refrigeration Institute. "Manufacturers had planned it that way by shutting down their lines, but now they're all back up, and it's caused a whole bunch of turmoil. They don't even want to build these units, but they feel that they have to."

Dietz's trade group, which speaks for the industry, has also asked EPA to stop companies from manufacturing the old models. And while the Obama administration is thinking about how to respond, there has been a skirmish over market share, pitting appliance makers that would make money on the new models against those that hang their hat on selling the old ones.

Leading the frustrated companies is Carrier, which says it prepared for the new rules by investing heavily in the new air conditioner models, and has already sold more than 3 million of them. The company, a division of Hartford, Conn.-based United Technologies Corp., filed a [petition](#) (pdf) earlier this year asking EPA to close what Carrier describes as a loophole.

Air conditioners do not release any refrigerant into the atmosphere unless they are broken, but industry experts concede that a small amount can leak during repairs.

If the administration does not act, more of the older air conditioners will be sold, which will cause more ozone-depleting chemicals to be released into the atmosphere over the years, Carrier and its allies argue.

"There can only be one result: our nation's reliance on HCFC-22 will continue and the transition to newer, more efficient and environmentally preferable alternatives will be delayed," the group said in its letter to EPA this week.

Refrigeration in the National ASHRAE News (Continued)

Other companies disagree with the claim that EPA left a loophole. Karen Meyers, corporate director of government relations at Rheem Manufacturing Co., said the rules mean homeowners and businesses can get replacement parts rather than rebuild their entire air conditioning systems. Meyers said the key to the phaseout will be the agency's annual budget for refrigerants, which decides how much R-22 will be available on the market. That was what worked when a previous refrigerant used in air conditioners, R-12, was phased out in the 1970s and '80s because it was worse than R-22 for the ozone layer, she said.

"If you reduce the amount of refrigerant available, you tighten the supply, which will affect pricing and then affect consumers' buying decisions," Meyers said. "We don't think that EPA should focus on regulating what product can be made."

When it released its new rules in 2009, EPA said banning the sale of R-22 in new air conditioners and other appliances would cut emissions of ozone-depleting gases by 4,070 tons over a decade, roughly a tenth of what the United States is allowed to release under the Montreal Protocol. That would help the ozone layer recover, the agency said, shielding the planet from harmful ultraviolet rays and preventing an estimated 1,700 cases of skin cancer. The new rules say that all brand-new air conditioning systems need to use the new refrigerant. But the majority of the existing air conditioners in American homes use R-22, and in those cases, things get tricky.

Under the new EPA rules, the old refrigerant cannot be sold in a new condenser unit -- the main piece of a central air system, which is usually installed alongside a house. But the condensers can be sold containing an inert gas such as nitrogen and filled with R-22 later. The goal was to let homeowners or businesses with broken condensers buy a replacement rather than swap out their entire system to work well with the new refrigerant. Air conditioners that use R-410A save money on electricity bills because they are more energy-efficient. But they cost more up front, tempting people who cannot afford a full replacement. No one has been able to resist making the R-22 air conditioners again -- not even Carrier, which decided it was necessary to stay competitive, said John Mandyck, the company's chief sustainability officer.

"We realized that the market was moving faster than the government could react," Mandyck said in an interview.

As the company has pressured EPA, it has called out its rivals by name, saying they have aggressively marketed the old air conditioners and stymied the transition away from ozone-depleting gases. Among the companies named in Carrier's petition were Houston-based Goodman Manufacturing Co. and Nordyne International Inc., the Missouri-based maker of Maytag appliances. In a statement to *Greenwire*, Nordyne said Carrier's petition reflects concerns about a competitive disadvantage, not about the environment, because other companies are better positioned to sell R-22 air conditioners.

Rex Anderson, a spokesman for Goodman, said he agrees that R-410A is the refrigerant of the future, but the company had to react to the forces of the market. Goodman will do whatever EPA tells it to do, he said. "If they tell us tomorrow, 'Don't make any uncharged units,' we won't make them," Anderson said.

After several telephone conversations and email messages over two days, an EPA spokeswoman failed to respond to questions by deadline.

Article By Gabriel Nelson of Greenwire

Past Presidents

1957-58 Karl K. Hickman	1984-85 Charles E. Langbein
1958-59 Sam F. Graziano	1985-86 Thomas H. Williams
1959-60 Julian Johnson	1986-87 Caire A. Boe
1960-61 Ken Whittington	1987-88 Frank Grandinetti
1961-62 Mark E. Mooney	1988-89 Carl B. Lawson
1962-63 James A. Hargan	1989-90 Robert M. Little
1963-64 Daniel R. Manrique	1990-91 Edward C. Spivey
1964-65 E. J. Bauerlien	1991-92 Robert P. Sutton
1965-66 Henry Graham	1992-93 Roger B. Redman
1966-67 Richard Kohle	1993-94 Stephen Chittenden
1967-68 Lamar King/Leland Menard	1994-95 William M. Slade
1968-69 Ed Fuller	1995-96 Juan A. Soler
1969-70 William A. Smith	1996-97 Timothy J. Citek
1970-71 Fared T. Ossi	1997-98 Mark Smith
1971-72 Lee Bendall	1998-99 Joseph Griner, III
1972-73 John Degian	1999-00 Colleen Smith
1973-74 Mark Chambers	2000-01 John W. Wells, III
1974-75 Charles "Stan" Weaver	2001-02 Gary Stenlund
1975-76 Charles D. Jacobs	2002-03 Bill Wright
1976-77 Peter Scott	2003-04 Don Crosby
1977-78 Ray Rinke	2004-05 Ted S. Hansen, Sr.
1978-79 Lloyd H. Biossoneault	2005-2006 P.J. Crespo
1979-80 James H. Carroll, Jr.	2006-2007 Dan Herrera
1980-81 S. Michael Tappouni	2007-2008 Jennifer Isenbeck
1981-82 Alberto J. Sanchez	2008-2009 Debie Horsey
1982-83 James L. Repp	2009-2010 Drew Elsberry
1983-84 Rodney C. Thomas	2010-2011 Jeff Ross

How We Can Help!

I want to bring to your attention something that was brought to mine by one of our Board of Governors Ms. Debra Ingram that there is an organization called "homes for our troops"

www.homesforourtroops.org.

and a young man Army SSG Juan Roldan was left a double amputee above the knees after an EFP explosion in Sadr City, Iraq on December 29, 2006. This organization is building him a home in Parrish, FL and need help with materials, labor , etc...

Debra had a great idea that maybe we all could help and I agree. It's easy to forget that when we were at home Sunday night watching on TV about Bin Laden that it is men like this that make it possible to do so! The following is the link to read about this young man:

<http://www.homesforourtroops.org/site/PageServer?pagename=JuanRoldan>

So my request is simple, maybe someone could donate grilles, another the AC unit, and others the exhaust fans , ductwork etc.... then maybe we get one of our contractor friends to install the unit and we the membership could lend a helping hand to do "whatever" we can. I will be talking to the heads of ASPE and MACCA to see what they can do also.

Let's show our hearts and let's get this done.

Al LaPera, President
Sarasota/Bradenton Section (2010-2011)

Special points of interest:

- > Still looking for this year's publicity chair.
- > See You in September for our Next Year's Meeting
- > Welcome to our New President, Shawn M. Jeffrey, Sr.

Board Members, Committee Chairs and Contact Info:

<u>Shawn Jeffrey</u> President 813-731-1062	<u>Jason Proctor</u> Pres. Elect/Programs 813-250-0488	<u>Philippe Jean</u> V.P./Research Promotion 813-541-3516	<u>Joe Souza</u> Membership 813-309-2155	<u>Joe Cox</u> Treasurer 813-763-9654	<u>Mike Costello</u> Secretary/Student 813-300-4662
<u>Leon Boe</u> YEA Chair/Governor 813-879-2749	<u>Dan Herrera</u> Historian 813-839-0506	<u>Ike Crimm</u> Governor/ Golf Event 813-758-2749	<u>Debie Horsey</u> Refrigeration 813-748-9406	<u>Malia Powers</u> Government Affairs 813-220-0588	<u>Michael Cowles</u> Newsletter/Governor 813-241-6488
<u>Jeff Ross</u> Nominating/Governor 813-250-0488	<u>Technical Energy</u> Joe Souza 813-309-2155	<u>Jacob Moberg</u> Reception 813-448-0225	<u>LAIR Services</u> Cyber Chair 813-404-2955	<u>Eric Viera</u> Chapter Roster 813-448-0225	<u>Could Be You?</u> Publicity ???

ASHRAE FLORIDA WEST COAST CHAPTER

SEPTEMBER 20, 2011

ALTON HOLT

COLUMBIA RESTAURANT, YBOR CITY

The Florida West Coast Chapter of ASHRAE is proud to have Mr. Alton Holt from Hi-Tech Air Purification Systems coming to speak to our chapter on September 20th 2011 at the Columbia Restaurant in Ybor City about:

NEW TECHNOLOGIES in IAQ & MICROBIAL CONTROL

Alton Holt has been the owner of Hi-Tech Air Purification Systems, LLC since 1997. Hi-Tech has led the field in innovative methods of air purification and mold remediation since its inception. Mr. Holt is certified in Texas as a mold remediation specialist. He has received many awards and has garnered attention around the world in the field of indoor air quality and infection control.



Listed among his accomplishments:

- * 13 Commendations from the Army Corp of Engineers
- * 3 patents pending in Food Safety, Infection Control & Bio-Terrorism
- * Published Worldwide – DPW for work at Ft. Hood in Killeen, TX
- * University of Pittsburgh Medical Center write up for CDC, SHEA, and APIC
- * Recognized by the University of Texas Educational System, FEMA and the National Historical Society for work done at Spindletop Museum/Lamar University in Beaumont, TX in the wake of Hurricane Rita

Mr. Holt is currently working on expansions in Australia, Guam, Japan and the Marshall Islands in all areas of indoor air quality and infection control.

Please RSVP on the FWC website at: http://www.ashrae-fwc.org/chapter_meetings.htm

Cost: \$35 thru Paypal or \$40 day of (It is still \$40 day of even if you RSVP but do not pay thru Paypal)

Email me with questions at jproctor@sladerossinc.com or call (813)250-0488

Jason Proctor
FWC Programs Chair



Columbia Restaurant
2117 East 7th Avenue
Ybor City, Florida 33605

Meeting Schedule:

Board Meeting: 4:15pm — 5:30pm

Registration: 5:00pm — 6:00pm

Main Meeting: 6:00pm — 8:00pm



Florida West Coast

CHAPTER



Florida West Coast

CHAPTER



Florida West Coast

CHAPTER

2ND ANNUAL CLAY SHOOT

ALL PROCEEDS GO TO RESEARCH PROMOTION

HOSTED BY:
**YOUR FLORIDA WEST COAST
CHAPTER OF ASHRAE**

This will be a 100 bird shoot and a BBQ lunch will be served.

Details will follow on cost for players, 4 person teams and sponsorship availability.

This is a ASHRAE event so all skill levels are encouraged to attend.

Call us about a pre-shoot outing for all new shooters.

Let's start the ASHRAE year with a Bang.

- Shotguns will be available for rent
- Ammo can be purchased at event
- Golf carts are available for rental

Where:

Fishhawk Sporting Clays
13505 Hobson Simmons Rd
Lithia, Florida 33547
813-689-0490 / www.fishhawkclays.com

When:

Friday, November 4TH, 2011
1:00 PM

For more information please contact Philippe Jean or Jackie Johnson at 813-879-0383. Please return attached form to fax 813-878-2932 or email to pjean@stanweaver.com





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ASHRAE Learning Institute 2011 Fall Online Course Series

2 WAYS TO REGISTER

Internet: www.ashrae.org/onlinecourses

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-838-8400 (worldwide)

Note: You may register up to 24 hours prior to an online seminar. Courses are in US Eastern Standard Time.



Basics of High-Performance Building Design
Mon, September 19, 2011 – 1:00 pm to 4:00 pm EST

Advanced High-Performance Building Design
Wed, September 21, 2011 – 1:00 pm to 4:00 pm EST

Fundamental Requirements of ASHRAE Standard 62.1-2010
Mon, September 26, 2011 – 1:00 pm to 4:00 pm EST

Complying with Standard 90.1-2010: HVAC/Mechanical
Thurs, September 29, 2011 – 1:00 pm to 4:00 pm EST

Complying with Standard 90.1-2010: Envelope/Lighting
Mon, October 3, 2011 – 1:00 pm to 4:00 pm EST

Healthcare Facilities: Best Practice Design
Mon, October 31, 2011 – 1:00 pm to 4:00 pm EST

Healthcare Facilities: Best Practice Application
Wed, November 2, 2011 – 1:00 pm to 4:00 pm EST

Evaluating the Performance of LEED-Certified Buildings
Mon, November 7, 2011 – 1:00 pm to 4:00 pm EST

Project Management for Improved IAQ
Wed, November 9, 2011 – 1:00 pm to 4:00 pm EST

The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH credit. Archiving is available.

Data Center Energy Efficiency – Part 1
Mon, October 10, 2011 – 1:00 pm to 4:00 pm EST

Data Center Energy Efficiency – Part 2
Wed, October 12, 2011 – 1:00 pm to 4:00 pm EST

Using Standard 90.1 to Meet LEED Requirements – Part 1
Mon, October 17, 2011 – 1:00 pm to 4:00 pm EST

Using Standard 90.1 to Meet LEED Requirements – Part 2
Wed, October 19, 2011 – 1:00 pm to 4:00 pm EST

Implementing Standard 189.1 for High-Performance Green Buildings – Part 1
Mon, October 24, 2011 – 1:00 pm to 4:00 pm EST

Implementing Standard 189.1 for High-Performance Green Buildings – Part 2
Wed, October 26, 2011 – 1:00 pm to 4:00 pm EST



ASHRAE HVAC Design Essential Workshop

January 11-13, 2012 • ASHRAE Foundation Learning Center • Atlanta, GA

Obtain the skills needed to:

- Improve overall building performance
- Design high-performance HVAC systems
- Effectively collaborate on an integrated design team

ASHRAE has created the HVAC Design Essentials to provide intensive, practical education for designers and others involved in delivery of HVAC services. Developed by industry-leading professionals, this workshop provides participants with training design to accelerate their evolution into effective member on a design, construction or facilities maintenance team.

In addition to gaining in-depth knowledge and understanding, attendees will receive real-world examples of HVAC systems based on the newly renovated ASHRAE Headquarters building. The workshop teaches a systematic approach to guide a design team to a solution that optimally meets the client's expectations.

Who Should Attend

- Engineers new to the HVAC industry
- Facilities managers involved in new construction or major renovation projects
- Technicians who would like to gain design knowledge
- Architects who want to understand HVAC design
- Construction project managers involved with mechanical systems



Visit www.ashrae.org/hvacdesign to register

ASHRAE Certification Programs

- Building Energy Assessment Professional (BEAP)
- Building Energy Modeling Professional (BEMP)
- Commissioning Process Management Professional (CPMP)
- Healthcare Facility Design Professional (HFDP)
- High-Performance Building Design Professional (HBDP)
- Operations & Performance Management Professional (OPMP)

For more info, visit
www.ashrae.org/certification



Florida West Coast

CHAPTER



2011 / 2012 Florida West Coast Monthly Meeting Programs



<u>Date</u>	<u>Time</u>	<u>Location</u>	<u>Topic</u>	<u>Speaker</u>
Sep 20, 2011	8:30/8:30pm	Columbia Restaurant	Main Meeting CRC / Regional Awards & Recognition New Technologies in IAQ & Microbial Control ** Membership Promotion Night	Alton Holt CIMR Technologies
Oct 18, 2011	8:30/8:30pm	Columbia Restaurant	Main Meeting Updates to FWC website Demand Controlled Venting * Joint Meeting with USGBC	Peter Hansen Energerv
Nov 4, 2011	1:00/6:30pm	Fish Hawk Clays Lithia, FL	2 nd Annual Florida West Coast Clay Shoot Tournament ** Research Promotion Event	
Nov 15, 2011	5:30/5:50pm 8:30/8:30pm	Columbia Restaurant Columbia Restaurant	Tech Topic Main Meeting Keys to Efficiently Designed Data Centers ** Research Promotion Recognition Night	Mike Lawler Data Aire
Dec 13, 2011	11:30/1:30pm	Columbia Restaurant	Lunch Meeting Geothermal Applications	Jay Egg Egg Geothermal
Jan 17, 2012	5:30/5:50pm 8:30/8:30pm	Columbia Restaurant Columbia Restaurant	Tech Topic Main Meeting - Noise & Vibration Control ** Membership Promotion Night	Vibro Acoustics
Feb 17, 2012	11:30/8:30pm	Eagles Golf Club	Annual Florida West Coast Golf Tournament	
Feb , 2012	8:00/10:00pm	St. Pete Times Forum	YEA Night (Tampa Bay Lightning Hockey & Tour)	
Mar 20, 2012	5:30/5:50pm 8:30/8:30pm	Columbia Restaurant Columbia Restaurant	Tech Topic Main Meeting - Variable Refrigerant Flow Applications ** Refrigeration Night	Roundtable Discussion
Apr 13, 2012	5:30/10:00pm	Davis Island Garden Club	Annual Florida West Coast Shrimp Boil ** Research Promotion Night	
May 15, 2012	5:30/5:50pm 8:30/8:30pm	Columbia Restaurant Columbia Restaurant	Tech Topic Main Meeting - ASHRAE's Journey to Sustainability ** Past Presidents Night *Joint Meeting with Sarasota Section	Ron Jamagin ASHRAE President

August 30, 2011