

Keeping it Cool with ASHRAE



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

From the Desk of the President



Well I'm glad that's over. If you've ever been FWC President, you know what I am talking about. You can attend 100 meetings, you can even have a few "drops" of liquid courage, but no matter what, you will always be nervous when you run your first monthly meeting. Is the speaker going to show up? Did the restaurant set the room up correctly? Is the restaurant still in business? (Yes.....we had that problem once) Where's the flag? Who has the name tags? Why did I pick this tie? A million things go through your head. Thank goodness that is over. It's all downhill from here.

There are several things that I keep thinking about though. We have made some changes to the FWC monthly programs that I am hoping will be warmly received. The first of which is bringing back the panel discussions. This month we are having a panel discussion about Air to Air Energy Recovery. The panel will consist of several FWC members. This will be a very open style meeting where crowd participation is necessary. We want to hear what our members think about this topic as well as to help dispel a few myths about what does and doesn't work. If you do not enjoy the meeting, please notify Mike Cowles. He is the very large bald headed man, with a pregnant wife, that hasn't slept in three

months, has a personal hatred of pickles and ice cream and has a permanent scowl on his face. He will handle your complaints.

In November we are having our third annual FWC Clay Shoot at Fish Hawk Sporting Clays in happening down town Fish Hawk. So dust off your shootin' irons, grab some customers and friends, and come join us for the loudest ASHRAE event of the year. This event is held to benefit ASHRAE Research.

Our monthly meeting in November, will be held on the **SECOND** Tuesday of the month as opposed to the third. This is due to Turkey day. Let me say again, it is the second Tuesday, not the third! November 13th. NOT November 20th. Do not go to the Columbia on November 20th and expect to hear about anything related to Smoke Control ventilation. If you show up on the 20th, you will be far less educated than the members who showed up on November 13th to learn about this fascinating topic. You may as well go in the restroom, light a cigar and watch it be extracted by the fan because that is all the education you will get that evening. However, if you do go on the 20th, please see Larry the bartender. He will ridicule you for us since none of us will be there! In case you are, for some reason impaired and didn't understand what I said, the monthly meeting in NOVEMBER IS ON THE 13th!!

Our December monthly meeting will be a lunch time meeting. It is also going to be our first annual Toys for Tots drive. Please plan to come to the Columbia at LUNCH time, as opposed to evening, and bring a toy for a child.

Again, lunch time. Not dinner time! You should go to the Columbia the **SECOND** time your stomach growls that day. Not the third.

We will see you all on October 16th for our panel discussion. Please be sure to RSVP as this is the only way we can insure that you have a meal reserved. It is very critical that we know of your attendance beforehand.

Jason Proctor
FWC President (2012-2013)

Inside This Addenda Issue:

Presidential Address	1
Research Promotion	2
Membership Promotion	3
FWC Clay Shoot Tournament	4-5
ASHRAE Government Affairs	6
FWC History Corner	6
Low GWP Refrigerants	8



OCTOBER 16, 2012

Al LaPera CxA, LEED_{AP}, John Siegenthaler,
Philippe Jean, P.E., LEED_{AP} and Al Sanchez, P.E. our MC Presents:

**Air to Air Energy Recovery
“Myth Busters”**

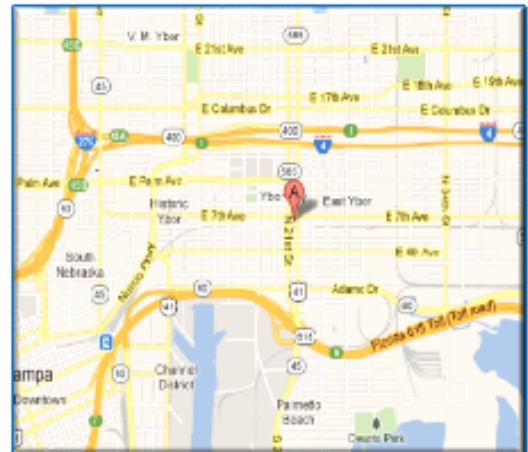
Air to Air Energy recovery “what shall I use?” There are wheels, fixed plates & sensible only coil types using water or refrigerant! Purge Sections, Cross Leakage, Cross Contamination, AHRI, RER, and ASHRAE 62.1. How do we compare, evaluate, specify, install and maintain the technologies to give our owners the opportunity to achieve the 2030 challenge? This program will have the panelists providing a brief overview followed by a question and answer session. We will be sending out to you, the membership, an email requesting questions of our panelists. Please send your question back quickly. This is your chance to ask the hard questions about these technologies. Pull no punches, as we seek to prove, is it real or just a myth. This program allows you to ask the questions of our panelists in an open format, whom will give you their opinions, which, based on these characters, very well may vary!

Please RSVP on the FWC website at: http://www.ashrae-fwc.org/chapter_meetings.htm
Cost: \$35 thru PayPal before the 16th, or \$40 the day of Event with PayPal.
Email any questions or to RSVP @ pjean@stanweaver.com or call (813)879-0383.
Philippe Jean, P.E., LEED_{AP} FWC Programs Chair.



Meeting Schedule:
Board Meeting: 4:15pm — 5:30pm
Tech Topic: 5:30-5:50 ASHRAE 62.1
Registration: 5:00pm — 6:00pm
Main Meeting: 6:00pm — 8:00pm

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



Research Promotion

I hope you had a chance to attend our 2012-2013 kick-off meeting at the Columbia recently, but for those that could not make the September meeting, I'd like to extend an invitation to join us for the 3rd Annual FWC Research Promotion Clay Shoot.

If you've attended our previous outings, you're undoubtedly aware of how much fun it is to blast clay pigeons out of the sky, and if you've not experienced an FWC shoot, you really should it's a great time. Most chapters use their golf tournaments as their RP funding vehicle whereas FWC uses the golf tournament to fund our chapter operations, so the clay shoot is instrumental in helping us reach our \$21,000 RP goal. To that end, we've expanded upon the traditional concept of "sponsorship", and I hope a few of our members will feel compelled to help us out. Please review the participant and sponsorship forms here in the Addenda.

In addition to the usual opportunities, we've added (3) top level sponsorships (only two remaining at this time) which start at \$2500. In actuality, the "sponsorship" is an endowment in your name, your company's name, or in honor of someone important in your life. I know ASHRAE has been good to a number of our more "seasoned" members, and I hope some of us will consider giving back to the organization in a very unique way. The Endowment is set up in such a way that the initial gift remains in a fund in perpetuity, and from the second year forward 5% of the gift is given back to the chapter's RP campaign each year in the name of the endowment. Was your dad instrumental in bringing you to the business? Is there someone in your life that gave you a chance when others wouldn't? What better way to say "thanks" than to set up an endowment so his/her legacy lives on in the FWC chapter forever! Additionally, your entire contribution goes directly to research, and the chapter covers the expense of the clay shoot, thus the entire endowment may be tax deductible and you can add to your endowment at any time. We greatly appreciate our vendor's support over the years, but this is a great way to show our member's support as well.

Likewise, participating in the shoot is a great way to contribute while having a great time... it's much more fun than simply writing a check at the end of the year!

You get the picture... you know the importance of ASHRAE research. Will you please help us achieve our 2012-2013 RP goal? Even those that cannot make the event can participate in our fundraiser, please log on to <http://www.ashrae.org/contribute> and make your generous contribution online while you're thinking about it. We appreciate your support!

Joe Souza, Research Promotion Chair (2012-2013)

2012-2013 ASHRAE FWC Sponsors and Donators

Individual Endowment (\$2500 and Up):

Mr. Philippe B Jean

Individual Honor Roll (\$100 and Up):

Mr. Mike Costello

Mr. Michael J Cowles

Mr. Isaac W Crimm

Mr. Alberto J Sanchez

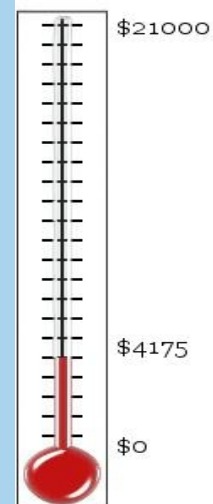
Mr. Jason C Proctor

Mr. Joseph R Cox

Mr. Joseph D Souza

Mr. Shawn M Jeffrey

Mr. Jasper S Scott





THE 3rd ANNUAL FLORIDA WEST COAST

Sporting Clay Shoot

**2012-2013
Research Promotion
Kick-Off!**

Date: November 9, 2012

Time: 1 pm

Register by: October 31, 2012

This will be a 100 bird shoot. Included in the price is a catered BBQ pork lunch prior to the shoot.

Entry fees:

- \$80 for "Chapter" members (Chapter dues current)
- \$90 for non-members
- Shotguns are available for rent for \$30
- Ammo can be provided for \$35 for 100 shells
- Golf Cart Rental \$25 for a team of 4
- Stand Sponsorship with Company Logo \$ 150.00

A limited number of carts and shotguns are available for rent, so get your registration in early to guarantee one!

**Additional Sponsorship Opportunities Available
Contact Joe Souza for details!**



Location:

Fishhawk Sporting Clays
13505 Hobson Simmons Rd
Lithia, FL 33547
813.689.0490
www.fishhawkclays.com

Additional Information:

Each attendee must be at least 18 years old, and must provide their own eye and ear protection.

Contact Joe Souza at 813-308-2188 or joseph.souza@lge.com

To submit completed registration form, mail it along with payment to (PayPal invoices upon request):

ASHRAE Clay Shoot
c/o Joe Souza
4208 Fox Ridge Blvd.
Wesley Chapel, FL 33543



Team Captain Name: _____ 1.) _____ Phone Number : _____ Email: _____ ASHRAE Number : _____ Shotgun Rental: Yes / No Buy Ammo: Yes / No Gauge: 12 / 20 Stand Sponsor: Yes / No	Team Member Names: _____ 2.) _____ Shotgun Rental: Yes / No Buy Ammo: Yes / No Gauge: 12 / 20 3.) _____ Shotgun Rental: Yes / No Buy Ammo: Yes / No Gauge: 12 / 20 4.) _____ Shotgun Rental: Yes / No Buy Ammo: Yes / No Gauge: 12 / 20	Total: \$ _____
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**** PROCEEDS BENEFIT ASHRAE RESEARCH - THANKS FOR YOUR SUPPORT! ****



3RD Annual ASHRAE Florida West Coast Clay Shoot

Limited Sponsorship Opportunities

Sponsorship Levels: **Platinum - \$2500**

- *"Refreshment Stand" Sponsor*
- *Lunch Sponsor*
- *Long Bird Sponsor*



Includes: 4-some shooting team, ammunition, golf cart, banner with company name & logo at the location sponsored, company name & logo displayed on all event literature and email notices, and a \$2500 RP endowment in your (or your company's) name... In essence, you set up a \$2500 RP endowment and the event is on us! To further sweeten the pot... your name and contact number will be removed from this year's calling campaign... it's one and done!

Gold - \$750

- *Raffle Sponsors*

Includes: 4-some shooting team, ammunition, golf cart, company name & logo on the prize sponsor banner, company name & logo displayed on all event literature and email notices. To further sweeten the pot... your name and contact number will be removed from this year's calling campaign... it's one and done!

Silver - \$150

- *Stand Sponsors (2 per stand)*

Includes: Company name & logo on signage at a shooting stand, company name & logo displayed on all event literature and email notices. Unfortunately, you're still fair game!



ASHRAE FWC History Corner

As the historian for the Chapter, I have been reviewing old files and scanning them for digital archives, as it is required to do by Society. I now have a growing collection of past Chapter activities, files, past presidents etc. and I thought that this historical data should be shared and passed on the membership with the Newsletter. So this month, I thought to include the history on the formation of the Chapter in 1956. The Florida West Coast Chapter is now in its 56th Anniversary. So read the account of the beginnings of the Chapter.

The fifth ASHRAE FWC non-board member to read this article and email the chapter newsletter editor, Michael Cowles at mike.cowles@kpiengineering.com will win a 50 dollar visa gift card. No phone calls please, emails only!

In the future there will be additional historical recollections about the Chapter, so read oncoming issues of the Addenda for a look to the past.

Daniel G. Herrera
Chapter Historian (2012-2013)

ASHRAE Government Affairs

The topics below provide a snap shot of government affair updates from ASHRAE to keep you informed of newsfeeds from society for the month of September. During our last meeting, we briefly discussed an upcoming FAST conference on October 25-27 in St Pete Beach with a theme “Stem-U-Lating Science”.

What is STEM? STEM has become a common acronym, particularly among policy advocates and government officials, for the fields of Science, Technology, Engineering, and Mathematics. The term is commonly used in relation to the nation's economic competitiveness and the related need for education programs in support of future generations. Among the most recent relevant publications on STEM education and competitiveness is [Rising Above the Gathering Storm](#) from the National Academies Press.

Groups involved in STEM Advocacy:

[STEMEd Caucus](#): A Caucus of Members of Congress in support of STEM education issues, chaired by Congressman Vern Ehlers (R-MI) and Congressman Mark Udall (D-CO).

[STEM Education Coalition](#): The STEM Education Coalition is composed of advocates from over 40 diverse groups representing all sectors of the technological workforce – from knowledge workers, to educators, to scientists, engineers, and technicians. The participating organizations of the STEM Education Coalition are dedicated to ensuring quality STEM education at all levels. The Coalition is co-chaired by the [American Chemical Society](#) and the [National Science Teachers Association](#).

Understanding the life of science and the importance of organizations like FAST drive an awareness to our industry and creates career paths for our future. Please contact me if you would have any questions or would like to learn more.

Malia Powers, Government Affairs Chair (2012-2013)

How to Contribute to ASHRAE Made Easy

2012-2013 ASHRAE RESEARCH Florida West Coast Chapter

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.

Contact: Joe Souza
4208 Fox Ridge Blvd, Wesley Chapel, Florida 33543
(813-308-2155 or joseph.souza@lge.com)



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Mr. Miss Ms. Mrs. Member No. _____ *Birth _____ / _____ / _____
(Month) (Day) (Year) *Required for membership demographics

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(First) (Middle) (Last) (Designation)

Current Address: (This will be where all correspondence will be sent unless otherwise specified)
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 City _____ State/Province _____ Zip/Postal _____ Country _____

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 City _____ State/Province _____ Zip/Postal _____ Country _____

E-mail _____ Alternate E-Mail _____
 Telephone _____ Fax _____

ASHRAE Email Usage Policy - ASHRAE respects the privacy rights and communication preferences of its members. To support ASHRAE's commitment to sustainability, ASHRAE actively seeks to reduce the amount of paper and mail used to communicate Society information. By supplying your email address, you are agreeing to receive electronic communications from ASHRAE, with the knowledge that you may opt-out of certain types of electronic communication once you become a member. Occasionally ASHRAE makes under proper safeguard physical address mailing lists - not email - to third parties for HVAC&R technology related direct mail purposes. If you DO NOT wish to receive these physical mailings please check here.

Please select preferred method of contact? Current Address Permanent Address Business Address

What version of the ASHRAE Handbook would you like?
 I-P (inch/pound units version) SI (metric units version) CD (I-P & SI)

Method of Payment
 By completing the payment option below and submitting the student transfer program form, ASHRAE will charge the amount selected below to your credit card.

\$120: For all three years (\$20-\$50-\$50) \$20: For one year only (your next two renewals will be \$50/year)

Visa Mastercard American Express Check or money order Enclosed Amount
(Checks must be payable to ASHRAE in US funds drawn from a US bank.)

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(Month) (Year)

Name on Card _____ Signature _____

To receive your subscription to the ASHRAE Journal, please answer the following questions by entering the appropriate codes in the spaces provided.

Which best describes your firm?
 11. Consulting Engineering
 12. Architect/Architectural & Eng Services
 15. Design/Build
 21. Contractor
 26. Property Mgmt & Dev
 31. Industrial Facility
 41. Commercial Facility
 42. Government, Healthcare, Education
 43. Utility
 51. Manufacturer/MNC&R Equipment
 61. Manufacturer's Representative
 62. Sales Engineering
 71. Wholesaler or Distributor
 82. Library
 84. Technical, Professional or Trade Association
 86. Student ***
 91. Other (Please Specify) _____

Which best describes your title?
 B. President
 C. Partner
 D. Associate
 E. Owner
 F. Vice President
 G. Vice President Eng, Chief Engineer
 K. Design Engineer
 L. Project/Application Engineer
 O. Facility Engineer/Manager
 F. Research/Development Engineer
 R. Sales Engineer, Sales
 S. Purchasing Agent
 T. Draftsperson
 U. Estimator
 W. Technician
 X. Instructor/Professor
 Y. Student ***
 Z. Librarian
 ZZ. Other (Please Specify) _____

Which best describes your function?
 1. Design/Application
 2. Manufacturing
 3. Maintenance/Operations
 4. Management
 5. Sales
 6. Research
 7. Teaching
 8. Other (Please Specify) _____

MAIL OR FAX BACK COMPLETED FORM ALONG WITH APPROPRIATE FEES TO:
 American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. • 1791 Tullie Circle NE, Atlanta, GA 30329
 Phone: 1-800-527-4723 (U.S. and Canada) • 404-636-8400 (world-wide) Fax: 404-321-5478 • www.ashrae.org

Low GWP Refrigerants

ATLANTA – Alternative low global warming potential (GWP) refrigerants will be presented at the ASHRAE/NIST 2012 Refrigerants Conference: “Moving toward Sustainability,” Oct. 29 - 30, 2012, at the National Institute of Standards and Technology (NIST), Gaithersburg, Md.

Papers from leading global experts will be presented on refrigerant alternatives and technologies, environmental effects of refrigerants, new refrigerant performance considerations and natural refrigerants. All papers at the conference are presented by invited speakers.

“The goal of the conference is to provide new information on the technologies, methods and means that will be used in the future to accommodate the imminent phase-down of high-GWP refrigerants,” Piotr Domanski, conference co-chair, said. “International concerns about the impact of refrigerants on climate change inevitably lead to increased focus on refrigerants with a low GWP applied in high-efficiency systems. This includes a new generation of unsaturated fluorochemicals and the expanded use of ‘natural’ refrigerants.”

This is the fourth jointly sponsored refrigerants conference organized by ASHRAE and NIST.

Those involved in all the different aspects of refrigerants and refrigeration technology – policymakers, manufacturers, researchers and government officials – will receive an opportunity to learn about the latest developments and directions going forward.

A number of papers address the new generation of low-GWP fluorochemicals, including “Introduction to Alternatives for High-GWP HFC Refrigerants;” “Alternatives to High-GWP HFC Refrigerants” for air-conditioning, heating and refrigeration applications, chillers and residential and small commercial unitary; and “AHRI Low-GWP Alternative Refrigerant Evaluation Program” among others. Complete information on new low-GWP refrigerants according to ASHRAE designations, including blend compositions, will be presented.

Papers addressing risk assessments for applications with 2L refrigerants will include “Risk Assessment of Residential Heat Pump Systems Using 2L Flammable Refrigerants” and “2L Flammability Investigation and Risk Assessment Enables Automotive Industry Approval of HFO-1234yf.” Papers on specific emerging refrigerants address “Environmental Impacts of HFO-1234yf and Other HFOs,” “Thermal and Chemical Stability of HFOs” and “Thermophysical Properties, Heat Transfer, and Pressure Drop of HFOs.”

A broad perspective on the expanded use of natural refrigerants are addressed in papers titled “Outlook for Natural Refrigerants,” “Application of CO₂ in Supermarkets in Europe” and “Ammonia.”

Three opening keynote presentations will provide broad perspectives:

- James Calm, engineering consultant, Great Falls, Va., will speak on “Refrigerant Transitions...Again”
- Drusilla Hufford, U.S. Environmental Protection Agency, will address “Opportunities for Improved Climate Benefit under the Montreal Protocol”
- Dr. Steve Montzka, National Oceanic and Atmospheric Administration (NOAA), will address “HFCs in the Atmosphere: Concentrations, Emissions, Impacts.”

In addition, the conference will feature panel discussions on “Global View on Refrigerant Preferences” and “Refrigeration and Air Conditioning in 2032.”

Conference registration fees through Sept. 14 are \$450 (\$400, ASHRAE members). Conference fees Sept. 15 to Oct. 17 are \$475 (\$425, ASHRAE members). Registration closes Oct. 18, and there will not be any onsite registration because of security requirements at the government facility.

For more information or to register, visit www.ashrae.org/refrigerants2012.

Advertise with ASHRAE

**Your companies name and line can be advertised here. Contact Michael Cowles with the ASHRAE Florida West Coast Addenda Newsletter today to learn how and see the flyer on the next page.
Michael Cowles, FWC Addenda Newsletter Editor, (813)-241-6488**

The FWC ASHRAE Chapter and Florida Gulf Coast USGBC participated in Celebrating the Green Apple Day of Service at the Following Schools:

- Eckerd College
- The University of South Florida
- The University of Tampa

Where we Learn Matters

The Green Apple Day of Service occurred on Wednesday September 26, 2012 from 11 AM – 1:30 PM. The event promoted campus Sustainability by:

- ◆ Kick off “Ban the Bottle” Campaign to reduce one-time use plastic bottles (select students will receive reusable, dishwasher safe, BPA free aluminum bottles)
- ◆ Take a Campus Sustainability Pledge to reduce energy and water use, recycle materials and reuse
- ◆ Learn where to find recycling and other Sustainable projects on campus

To Learn More about Other Community Events, go to mygreenapple.org



Sponsored by:



FLORIDA GULF COAST CHAPTER

Students at University of Tampa (bottom left and right) and University of South Florida (right) take Sustainability Pledge and learn about their campus sustainability measures. Re-usable bottles were sponsored by FWC ASHRAE and FG USGBC.





Please consider advertising in the Florida West Coast Chapter of ASHRAE's newsletter and website. Your advertisement is published 10 times per year, and can be updated through the year with a new copy if desired. In addition, your business card will be scanned and included on the chapter website, and your company name and contact information is included on the Chapter Affiliates page of the website. The chapter encourages its members to review the newsletter and website whenever they consider a product for the project designs.

For the 2012-2013 year, the Chapter Board of Directors has decided upon the following rate as detailed below. In appreciation of the support from our sponsors during this difficult economic time, we want advertising in the chapter newsletter and website to remain affordable and accessible.

2012-2013 ASHRAE FWC Advertising Rates (All Rates are for the Business Year Including 10 Newsletter Publications and 10 Months of Information Placed on the Florida West Coast Brand New Website)		
Ad Type and Size:	ASHRAE FWC Members Fee:	Non-Members Fee:
1/4 Page Newsletter/Website Ad (Include Business Card on Website)	\$125.00	\$150.00
Half Page Newsletter/Website Ad (Includes Business Card on Website)	\$200.00	\$250.00
Full Page Newsletter/Website Ad (Includes Business Card on Website)	\$350.00	\$400.00
Monthly Full Page Newsletter Ad (Includes Business Card on Website)	\$75.00	\$100.00
Monthly Full Page Website Ad (Includes Business Card on Website)	\$100.00	\$150.00

Please indicate your interest in advertising with us by responding to the email address below and remit your ad copy in either PDF or JPEG formats to Mike Cowles. Please send payment to the Chapter address below to ensure placement of the ad in the September edition of the newsletter. Advertising fees shall be prorated based on the number of newsletter editions remaining upon the purchasing of your advertising plan.

Thank you for considering the Florida West Coast Chapter of ASHRAE newsletter and website in your advertising strategy!

mike.cowles@kpiengineering.com

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 3203 Queen Palm Drive · Tampa, Florida 33619 · (813)-241-6488

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Full-Day Professional Development Seminars

\$485/\$395 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs

The Commissioning Process in New & Existing Buildings
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Complying with Standard 90.1-2010
Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Data Center Energy Efficiency
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

**Energy Modeling Best Practices and Applications:
HVAC/Thermal**
Tuesday, Jan 29 – 9:00 a.m. to 4:00 p.m.

Healthcare Facilities: Best Practice Design & Applications
Saturday, Jan 26 – 8:00 a.m. to 3:00 p.m.

Half-Day Short Courses

\$159/\$119 ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs

Air-to-Air Energy Recovery Fundamentals
Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Commissioning Process & Guideline 0
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

**Humidity Control: Applications, Control Levels
and Mold Avoidance**
Sunday, Jan 27 – 2:00 p.m. to 5:00 p.m.

Evaluating the Performance of LEED®-Certified Buildings
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Air-to-Air Energy Recovery Applications: Best Practices
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

**Optimization of HVAC Systems & Components:
Techniques & Real-World Examples**
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

**Application of Standard 62.1-2010:
Multiple Spaces Equations & Spreadsheet**
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Energy Management in New and Existing Buildings
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

Combined Heat & Power: Design through Operations
Monday, Jan 28 – 8:30 a.m. to 11:30 a.m.

Avoiding IAQ Problems
Tuesday, Jan 29 – 9:00 a.m. to 12:00 p.m.

**Understanding Standard 189.1-2011 for
High-Performance Green Buildings**
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Designing Toward Net Zero Energy Commercial Buildings
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

**Introduction to Ultraviolet Germicidal
Irradiation (UVGI) Systems**
Monday, Jan 28 – 2:45 p.m. to 5:45 p.m.

Understanding & Designing Dedicated Outdoor Air Systems
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

Laboratory Design: The Basics and Beyond
Tuesday, Jan 29 – 1:00 p.m. to 4:00 p.m.

HVAC Design Training

Jan 14-18, 2013 • Jan 30-Feb 1, 2013 (Level I only) • Mar 18-22, 2013 • Jun 3-7, 2013 • Aug 12-16, 2013

HVAC Design: Level I - Essentials

Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II - Applications

Developed by industry-leading professionals, the workshop provides participants with advanced level information about designing, installing and maintaining HVAC systems that can be put to immediate use. Participants will gain an in-depth look into Standards 55, 62.1, 90.1, and 189.1 and the Advanced Energy Design Guides, as well as a range of other HVAC topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Visit www.ashrae.org/hvacdesign to register

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 Fareed 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
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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
	2011-2012 Shawn Jeffrey, Sr.

Upcoming FWC Events

October 16, 2012:
 ASHRAE 62.1-2010
 Speakers:
 Al LaPera
 John Sigenthaler
 Philippe Jean, PE

November 9, 2012:
 3rd Annual Florida West Coast
 Clay Shoot Tournament
 Fish Hawk Clays

November 13, 2012:
 ASNI ASHRAE 149 2000
 Speaker: Bryce Wentworth

December 18, 2012
(Lunch Meeting):
 ASHRAE 3738 (RP-592)
 Thermal Storage Round Table
 Panel Discussion
 Refrigeration Night
 All Meetings Start at 6:30 PM.



Board Members, Committee Chairs and Contact Info:

<u>Jason Proctor</u> President 813-250-0488	<u>Philippe Jean</u> Pres. Elect/Programs 813-541-3516	<u>Joe Souza</u> V.P./Research Promotion 813-309-2155	<u>Joe Cox</u> Membership 813-250-0488	<u>Mike Costello</u> Treasurer/Shrimp Boil 813-300-4662	<u>Ike Crimm</u> Secretary/Golf Event 813-288-1500
<u>Leon Boe</u> YEA Chair/Governor 813-879-2749	<u>Dan Herrera</u> Historian 813-839-0506	<u>Jeff Ross</u> CTTC Chair 813-250-0488	<u>Debie Horsey</u> Refrigeration 813-748-9406	<u>Malia Powers</u> Governor/TEGA Chair 813-220-0588	<u>Michael Cowles</u> Newsletter/Governor 813-241-6488
<u>Shawn Jeffrey</u> Nominating/Governor 813-250-0488	<u>Michael Cowles</u> Facebook Page 813-241-6488	<u>Jacob Moberg</u> Reception Chair 813-448-0225	<u>Cyber Chair</u> Jason Babinec 813-620-6152	<u>Eric Viera</u> Chapter Roster 813-448-0225	<u>Chris Brown</u> Publicity 813-784-1740