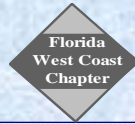


Florida West Coast Chapter
 ASHRAE
 3203 Queen Palm Drive
 Tampa, Florida 33619

Keeping it Cool with ASHRAE



From the Desk of the President



All I have to say is thank goodness it is October, we're into our fourth month of the new ASHRAE year and it feels like the time is just flying by. Plus with the last few days of low 60 degree F temperatures in the morning, I almost feel happy going to work in the mornings (hold on now.....I said almost).

With it being cooler outside and the dewpoint lower it is a good time to start thinking about demand control ventilation (DCV) makes it possible to maintain proper ventilation and improve air quality while saving energy. ASHRAE has determined that: "It is consistent with the Ventilation rate procedure that Demand Control be permitted for use to reduce the total outdoor air supply during periods of less occupancy". CO₂ sensors will control the amount of ventilation for the actual number of occupants. During design occupancy, a unit with the DCV system will deliver the same amount of outdoor air as a unit using the ventilation-rate procedure. However, DCV can generate substantial energy savings whenever the space is occupied below the design level.....

Want to know more? Well please join us for our October 18th meeting at the Columbia in Ybor City with Mr. Peter Hansen from ENERVEX (formally known as Exhausto).

Also, the 2nd Annual Florida West Coast Sporting Clay Shoot will be held again this year at Fish Hawk Sporting Clays in Lithia on November 4 at 1pm. We had 44 attendees last year and this year is expected to be bigger and better so get your shotguns cleaned and assemble your team!!! All proceeds to be donated to ASHRAE Research Promotion.

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

Inside this issue:

Presidential Address	1
Research Promotion	2
Membership Promotion	3
Refrigeration	4
October Meeting Speaker	9
Region Clay Shooting Flyer	10



Research Promotion

We all benefit from ASHRAE. The amount of information that we use in designing, building and maintaining our facilities is staggering. A great deal of this information is providing via research that ASHRAE funds every year with the generous donations of members and partners in our industry. To think that majority of donations are made from individuals at \$250 or less is amazing. It clearly shows that ASHRAE is a grass root movement depending on individuals, like you, to keep the research funded. One hundred percent of your donation dollars goes to research. All awards and promotional items are paid from dues and the general fund.

**If you would like to make a donation to ASHRAE Research, please contact:
Philippe Jean or Jackie Johnson at (813) 879-0383**

Last Year was a very successful year for the Florida West Coast Chapter in regards to our research campaign. The chapter raised over \$23,000.00. This would not have been possible if it was not for the generous donations made by all the chapter members and their companies.

Thank you to the Jason Proctor and his committee members for all their hard work.

We would like to acknowledge and thank all those individuals and companies who graciously donated to ASHRAE Research to make our industry, and our world a better place!

Philippe Jean, PE, LEED AP

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

Interesting question...

The membership committee is often asked “why should I become a member of ASHRAE FWC”, and I suppose there are as more reasons than we can count. Membership means different things to different people, but some of the reasons promoted by Society include:

- Access to the latest and best technical information in the HVAC&R industry
- Professional development opportunities
- Networking opportunities with industry peers
- Opportunity to give back to an industry that gives its leaders so much

These are all great reasons and as a society ASHRAE has enjoyed tremendous success, some of our notable achievements include:

- Development of Standard 90.1, the nation’s first energy standard
- A strong research program for over 90 years
- Recognized standards developer
- ASHRAE Handbook, the industry’s book of choice for HVAC&R guidance

The Chapter occasionally polls our membership to determine what we want to see and do, and that’s great, but I’d like to pose a more personal question... why are you an ASHRAE member? I challenge our membership to take 5 minutes to fire off an email telling me why you belong to ASHRAE so I can share your thoughts in future newsletters, and more importantly, the committee can better identify what’s really important to prospective members. Names can be withheld if you so choose, just make a note in your email.

I hope to see a great response!

Joe Souza, Membership Promotion Chair (2011-2012)

National ASHRAE News

ATLANTA—ASHRAE received Congressional support from co-chairs of the High-Performance Buildings Congressional Caucus regarding the Society’s call to the federal government to resume work on the 2011 Commercial Buildings Energy Consumption Survey (CBECS).

On July 13, Representatives Judy Biggert (R-Ill.) and Russ Carnahan (D-Mo.) delivered a colloquy on the House floor in strong support of funding and resuming work on the 2011 CBECS. Joining in the colloquy, the chairman and ranking Democrat of the House Energy and Water Development Appropriations Subcommittee, Representatives Rodney Frelinghuysen (R-N.J.) and Peter Visclosky (D-Ind.), also lent their support to the importance of CBECS data.

Carnahan quoted a letter from ASHRAE issued in May, strongly urging Congress to include funding for CBECS in the Fiscal Year 2012 appropriations bills to allow work on the 2011 edition of the Survey to continue. The letter was submitted to the Congressional Record.

“If funding is not provided, work on the 2011 CBECS data will likely not continue, and the government and industry will be forced to rely on data that is nearly a decade old, resulting in potential missed opportunities to increase building efficiency,” Carnahan read from the ASHRAE letter on the House floor.

Earlier this year the U.S. Energy Information Administration (EIA) announced it would not be releasing the results of the 2007 CBECS due to data collection errors. As a result of funding reductions, EIA also announced that it would halt work on the 2011 edition of the Survey. Currently, the latest version of CBECS data is from 2003.

“Many members of the High Performance Building Coalition have come to us to express their concern about an updated CBECS since the latest data is nearly a decade old,” Biggert said while addressing the House. “Substantial investments in the commercial building sector have been made since the last CBECS was published in 2003. The updated data is not only valuable to building owners looking to make improvements, but also necessary to inform the Annual Energy Outlook that we, in Congress, rely on.”

ASHRAE National Refrigeration Awards

Milton W. Garland Commemorative Refrigeration Award for

Project Excellence Refrigeration Comfort Cooling Award for Project Excellence

The Refrigeration Committee of ASHRAE seeks to promote refrigeration education and development at all levels of the society. As a part of these activities, the Committee can recognize and honor two projects annually for excellence. These two awards are the Milton W. Garland Commemorative Refrigeration Award and the Refrigeration Comfort Cooling Award.

The Milt Garland and the Comfort Cooling awards are given to project designers and owners to recognize innovative concepts, incorporation of new technologies, or solutions to complex refrigeration problems. These awards communicate innovative solutions to other ASHRAE members and highlight the technical achievements of ASHRAE members to associated professionals, other societies, and other refrigeration facility owners.

For each winning award the project's designer receives a plaque at ASHRAE's winter meeting. The winning project is described in the printed program along with the names of the awardees. The project's owner is honored with a plaque at a refrigeration program meeting of the local ASHRAE Chapter. And the local Chapter receives a felt patch to go on its award banner. Winning projects are announced in Insights, the ASHRAE Newspaper; and a news release is developed and distributed to the Chapter and award recipients for use in other publications and media. Documentation accompanying the winning projects is also made available to ASHRAE's Journal.

Refrigeration plays a critical role in the health, safety, and comfort of humanity. Sharing inventive solutions and technological developments ensures that the refrigeration field continues to advance in meeting these needs. Participation in these Award competitions brings peer recognition to innovative projects, recognizing the commitment made by owners and the technical proficiency of the project design team. Additional information can be found at the ASHRAE web site www.ashrae.org/refrigeration. You can also contact Debie Horsey, FWC Refrigeration Chair 2011-2012 at dhorsey@carrollair.com.

Deb Horsey
Refrigeration Chair (2011-2012)

National ASHRAE News (Continued)

ASHRAE led the establishment of the HPB Congressional Caucus in 2008 to heighten awareness and inform policymakers about the major impact buildings have on our health, safety and welfare and the opportunities to design, construct and operate high-performance buildings that reflect our concern for these impacts.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

Florida West Coast Chapter Technology Awards

It is time to start filling in applications for the ASHRAE Technology Awards!

If you have been involved in or know of a recent project that has been occupied for at least a year, get it recognized! The ASHRAE Technology Awards starts at the Chapter level. Locally awarded recipients may go on to the Regional and Society Award competitions to be recognized as leaders in sustainable and cutting-edge building design. The application is relatively simple and the deadline of March 4th will be approaching fast. If you have any suggestions of building projects to encourage to apply, please forward me enough contact information for our TEGA committee to encourage the application.

In addition, as your TEGA representative, my goal is to track any discussions and/or meetings that members of the Florida West Coast Chapter may have in educating government officials (at any level of government including school boards, city, county and state employees, and university folks) in which ASHRAE related topics were discussed. We welcome these officials an invitation to attend any of our meetings throughout the year. If you have a governmental official that you believe would benefit from our chapter, please contact me to discuss further.

Let's have a great 2011-12 year!

Malia Powers
TEGA Chair (2011-2012)

Solar Decathlon Kicks Off in Washington, DC

The U.S. Department of Energy Solar Decathlon began this week on the National Mall in Washington, DC.

The Solar Decathlon is a competition among 20 college and university student teams to design, build, and operate the most attractive, effective and energy-efficient solar-powered house. The first Solar Decathlon was held in 2002, and the competition has since taken place in 2005, 2007, and 2009. The Solar Decathlon is open to the public and free of charge.

Visitors can tour the houses, gather ideas to use in their own homes, and learn how energy-saving features can help them save money. ASHRAE serves as a supporting sponsor of the event. For more information, please visit:

<http://www.ashrae.org/students/page/solardecathlon11>

Engineering Public Policy Internship Seeks ASHRAE Students

ASHRAE is now accepting applications for the 2012 Washington Internship for Students of Engineering (WISE) program. The WISE program provides selected participants with a unique opportunity to interact with and learn from government officials, professional societies, and others who are involved with crafting national public policy that affects the engineering profession and building industry.

Applicants must be ASHRAE student members. Applications are available at: <http://www.ashrae.org/advocacy/page/1226>, and must be postmarked or emailed by December 31, 2011.



EARTHY STEWARD SPONSORS—\$5,000
LG COMMERCIAL HVAC & STAN



AMSCO and ABC Sponsor

Jennifer Isenbeck presents to Melissa DeJesus



Best RVC

Bill Malphus presents to Jennifer Isenbeck



ASHRAE CRC 2011 AWARDS

Jennifer Isenbeck, Shawn Jeffrey, Jason Proctor and Jeff Ross (not pictured) receive plaques for chairing CRC.

A special thanks to all our sponsors (there were many more). Florida West Coast hosted Region XII CRC in Costa Rica in August.

Florida West Coast Chapter Membership Promotion Night



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

Special points of interest:

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



LAIR SERVICES, INC.

Creative Technology and Marketing Solutions

We take the SH out of I.T.



2011-2012 Florida West Coast Schedule of Events

September 20, 2011 - 6:30-8:30 pm
Main Meeting at the Columbia Restaurant
CRC Regional Awards & Recognition
*Membership Promotion Night
Speaker: Alton Holt (CMR Technologies)
New Technologies in IAQ and Microbial Control

October 18, 2011 - 6:30-8:30 pm
Main Meeting at the Columbia Restaurant
Updates to FWC Website
*Joint Meeting with USGBC
Speaker: Peter Hansen (Enervex)
Demand Controlled Venting

November 4, 2011 - 1:00-6:30 pm
2nd Annual Florida West Coast Clay Shoot
Tournament
Fish Hawk Clays, Lithia
*Research Promotion Event

November 15, 2011 - 6:30-8:30 pm
Main Meeting at the Columbia Restaurant
*Research Promotion Recognition Night
Speaker: Mike Lawler (Data Aire)
Keys to Efficiently Designed Data Centers

December 13, 2011 - 11:30 am - 1:30 pm
Lunch Meeting at the Columbia Restaurant
Speaker: Jay Egg (Egg Geothermal)
Geothermal Applications

January 17, 2012 - 6:30-8:30 pm
Main Meeting at the Columbia Restaurant
*Membership Promotion Night
Speaker: Vibro Acoustics
Noise and Vibration Control

February 7, 2012 - 6-10 pm
Tampa Bay Lightning vs. Los Angeles Kings
St. Pete Times Forum Ice Plant & Modifications Tour
*YEA Night/Refrigeration Event

February 17, 2012 - 11:30 am - 6:30 pm
Annual Florida West Coast Golf Tournament
Eagles Golf Club

March 28, 2012 - 6:30-8:30 pm
Main Meeting at the Columbia Restaurant
*Refrigeration Night
Roundtable Discussion: Variable Refrigeration Flow
Applications

April 11, 2012 - 5:30-10:00 pm
Annual Florida West Coast Shrimp Boil
Davis Islands Garden Club
*Research Promotion Night

May 15, 2012 - 6:30-8:30 pm
Main Meeting at the Columbia Restaurant
*Past President's Night/Joint Meeting with Sarasota Section
Speaker: Ron Jamagin (ASHRAE President)
ASHRAE's Journey to Sustainability

Board Members, Committee Chairs and Contact Info:

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

ASHRAE FLORIDA WEST COAST CHAPTER

&

U.S. GREEN BUILDING COUNCIL (USGBC)

OCTOBER 18, 2011

MR. PETER HANSEN
COLUMBIA RESTAURANT, YBOR CITY

The Florida West Coast Chapter of ASHRAE is proud to have Mr. Peter Hansen from the ENERVEX to speak to our chapter about:

Demand Control Venting for Boilers and Water Heaters

&

Demand Control Exhaust for Clothes Dryers, Bathrooms and Kitchens in multistory condo and apartments



Employed with ENERVEX since 1991. Peter Hansen worked 12 years in Europe, before joining ENERVEX Inc. in Atlanta, GA in January 2003. Peter is responsible for all commercial sales and technical activities in the USA and Canada. Mr. Hansen has a Masters degree in economics and management from the University of Copenhagen, Denmark.

Mr. Hansen, is a member of ASHRAE, U.S. Green Building Council, National Fire Protection Association, National Chimney Sweep Guild, and HPA.

CEUs will be provided for this meeting !

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
(813)250-0488

Jason Proctor
FWC Programs Chair

Meeting Schedule:

Board Meeting: 4:15pm — 5:30pm
Registration: 5:00pm — 6:00pm
Main Meeting: 6:00pm — 8:00pm

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





Florida West Coast

CHAPTER

THE 2nd ANNUAL FLORIDA WEST COAST

Sporting Clay Shoot

**** ALL PROCEEDS GO TO RESEARCH PROMOTION ****

Friday, November 04, 2011 • 1 p.m.

Fishhawk Sporting Clays 13505 Hobson Simmons Road, Lithia, FL 33547

813-888-0490 • www.fishhawkclays.com



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

Eye and ear protection are required .

- Limited shotguns are available for rent for \$20.00
 - Ammo can be provided for \$30.00 for 100 rounds
 - Golf carts are available for \$ 25.00 per team of four
- Cost is \$80.00 per person or \$260.00 for a team of four.



Team Captain Name: _____ **Phone # :** _____

Shotgun Rental: Yes / No **Buy Ammo:** Yes / No **Gauge:** 12 / 20

Team Member Names: _____

Shotgun Rental: Yes / No **Buy Ammo:** Yes / No **Gauge:** 12 / 20

Team Member Names: _____

Shotgun Rental: Yes / No **Buy Ammo:** Yes / No **Gauge:** 12 / 20

Team Member Names: _____

Shotgun Rental: Yes / No **Buy Ammo:** Yes / No **Gauge:** 12 / 20

Must be 18 or older. For more information contact Philippe Jean 813-879-0383.
Please fax completed form to 813-878-2932 or Email: pjean@stanweaver.com



"...BEST DECISION I COULD'VE MADE..."
"...SMART, EFFECTIVE AND MONEY CONSCIOUS..."
"...AWESOME RESOURCES..."

THE STORY OF YOUR LIFE
JUST GOT
BETTER.



You're about to graduate. Your career and life are in front of you.
Start your professional engineering journey with smart resources from ASHRAE
when you transfer your student membership into associate membership.

Your first year of membership out of college is only \$20. And for the next two years
you only pay \$50 a year – a \$420 savings and the smartest start to your career when
you're armed with the resources of ASHRAE. Plan ahead. Save money. SUCCEED.

www.ashrae.org/smartstart

STARRING YOU HVAC&R ENGINEERING THE BUILT ENVIRONMENT GREEN TECHNOLOGY ENERGY SAVINGS CLEANER AIR SAFER FOOD SMARTER BUILDINGS QUALITY OF LIFE
INDUSTRY STANDARDS FEATURING ASHRAE, AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS 1791 TULLIE CIRCLE ATLANTA, GA 30329
1-800-527-4723 (U.S. AND CANADA) 404-321-5478 ADVANCING HVAC&R TO SERVE HUMANITY AND PROMOTE A SUSTAINABLE WORLD

WWW.ASHRAE.ORG/SMARTSTART



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 404-836-8400 (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