

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



Keeping it Cool with ASHRAE

Special points of interest:

- > ASHRAE Regions XII CRC is Coming Up Soon! RSVP ASAP!
- > Last FWC Chapter Meeting of the Year (May 17, 2011) with Ray Patenaude talking about Building Envelopes and Pressurization (Past President's Night)



From the Desk of the President

It is time to pass the reigns again. I'm sure every FWC past president has had these feelings before, when their term was up. It's a sense of relief but at the same time lots of questions go through your head. My pea sized brain has been racked with questions. Is the incoming board ready for the next year? Are all the chairs filled? Is there money in the bank? Will the incoming president write witty commentary to keep the masses entertained every month?

Well aside from the witty commentary, I can answer yes to all of these questions. I am sure Mr. Jeffrey will find something entertaining to write about though. I have already touched on some of his favorites.....beer, brown water, cars.....by the way.....sorry for the inadvertent plagiarizing last month Drew. As I explained to my professor the third time I took English 2, "It simply can't be said any better than the way he did it sir. So why try and top it." OK, I didn't take English 2 three times. I did take it more than once though. Differential Equations.....yes, it took several attempts. There is no reason for Differential Equations. Period. I will argue that to anyone until the day I die. It is as useless as pigeon dung on an evaporator barrel. But I digress.

We had some spectacular events this year. We visited a brewery, and we drank beer. We had our YEA bowling night, and we drank beer. We had an amazing golf tournament, and we drank beer. The shrimp boil was the best in years, and you guessed it, we drank beer. I would like to take this time to thank our sponsors Anheuser Busch and Pepin Distributing for.....just kidding. Since this is my parting note, I would like to thank all of those people that helped us have such a great year.

Shawn Jeffrey – I probably bounced more worthless ideas off of this man than anything else. Normally he would tell me that the idea was, in fact, worthless but he still had the ability to see where I was trying to go with it and help me formulate a plan that didn't suck. Thanks for the help bud. Good work on Programs too.

Jason Proctor – Jason got to hear the really stupid ideas. The ones Shawn thought were too stupid to even comment on. And as most of you know, he doesn't candy coat things real well. If you want a head check. Ask him. He also personally handled the Inaugural FWC Clay Pigeon Shoot at Fish Hawk Sporting Clays. Make it a point to attend this in November. It was one of the most entertaining ASHRAE events I have ever attended. And I've attended tons of 'em. Did I mention my team came in first place?

Philippe Jean – Philippe did nothing this year. He was as useless as pigeon dung on an.....just kidding Philippe. Philippe handled Membership promotion this year. For those of you that have done this job before, you know it is a difficult task. We try and keep our membership up and promote growth. However in a down economy this can really be a challenge. Philippe did a great job of keeping up our membership during difficult times.

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Programs

The Florida West Coast Chapter of ASHRAE is proud to have Mr. Ray Patenaude from The Holmes Agency coming to speak to our chapter on May 17th 2011 at the Columbia Restaurant in Ybor City about:

BUILDING ENVELOPES & BUILDING PRESSURIZATION (Flyer Page 7)

Ray is a registered Professional Engineer specializing in forensic engineering of HVAC systems, moisture intrusion into buildings and microbial contamination of building environments. He has been involved with construction and building science for over 30 years. As a recognized expert in his field, Mr. Patenaude, P.E. provides professional consultation and forensic investigation in building science.

Ray specializes in the cause and origin of construction defects; building envelope assessments; HVAC failure causation analysis; energy analysis; moisture intrusion; mold growth investigations; remediation management; claims and litigation support for commercial, residential, industrial and institutional buildings.

So please join us for the last meeting of the ASHRAE season and for Past President's Night!!!

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

From the Desk of the President (Cont.)

Joe Souza – Isn't it fun trying to keep the books straight? Joe did a great job of keeping the board informed of our current financial status with his monthly reporting.

Joe Cox – The Secretary. Oddly enough, I don't remember any one of us teasing him about his title. Don't worry, I've got a month left. It might not have always been on time, but we got meeting minutes! Good work Mr. Secretary.

Ike Crimm and Mike Costello – The Special Events dynamic duo. Great work guys. Both the Golf Tournament and the Shrimp Boil were spectacular. Sorry I missed the Shrimp Boil, but the reports I got were that everyone had a blast. Supposedly there was some beer consumed as well.

Mike Cowles – If you ever want to read a nastygram.....be late with your Addenda article. Motivating is an understatement. "Have your article, that is already five days late, to me by the end of the day or I will break both your legs." Needless to say, I type well when scared. All kidding aside, Mike did a great job putting together the Addenda every month. If you haven't done this job, let me tell you, it is no fun. Try to make everything fit, look nice then publish it. A truly thankless job. Thanks for your work Mike.

There are lots of other board members that contributed to our success as well. Debie Horsey, Leon Boe, Drew Elsberry and Dan Herrera just to name a few. Thanks to all of you.

So that's it folks. No history lesson this month. We are just going to add my name to the distinguished Past Presidents List. I'm looking forward to my free dinner next year. Speaking of which, this month is past president's month. I will be contacting all of our past presidents to personally invite them to the last meeting of this ASHRAE year. I hope to see you all there.

Jeff Ross, FWC President (2010-2011)



Florida West Coast

CHAPTER

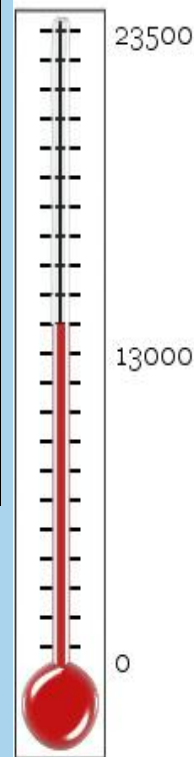
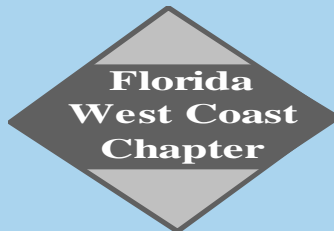
Research Promotion

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 April 30, 2011 the Florida West Coast Chapter has collected over \$ 13,000.00, please be sure to recognize those investors that are listed in this newsletter.

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 https://www.ashrae.org/aboutus/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 jasoncproctor@gmail.com.

Jason Proctor
 FWC Membership Chair (2010-2011)



How to Contribute to ASHRAE Made Easy

2010-2011 ASHRAE RESEARCH Florida West Coast Chapter Contribution Form

You can help make the difference!

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:

Jason Proctor
 6723 Summer Cove Drive
 Riverview, FL 33578

What ASHRAE is Working On

ASHRAE has published a new guideline that provides guidance on achieving good indoor environments by considering the interaction of air quality and thermal conditions, as well as lighting and acoustics. Guideline 10 is especially important in the design of low-energy buildings in order to ensure full consideration of indoor environmental quality and its effects on occupants.

ASHRAE Guideline 10-2011, *Interactions Affecting the Achievement of Acceptable Indoor Environments*, calls attention to many interactions that designers might not have previously recognized or understood. The guideline contains an assembly of available knowledge on the complexity of the indoor environment and its impact on building occupants.

“The guideline summarizes what research and experience have taught us about the complex interplay of the wide range of factors that determine occupants’ reactions to the buildings they inhabit,” Hal Levin, chair of the committee writing the guideline, said.

Levin explains that the guideline is intended to help users understand and use existing documents that deal with indoor environments, including the ASHRAE standards related to energy, ventilation, indoor air quality and thermal conditions with a more complete understanding of their combined effects on occupants.

“It can provide assistance to building design professionals and building operators by making them aware of the major interactions that have the potential to impact the indoor environment,” he said. “We believe the guideline will help draw attention to the narrowly-defined scopes of the widely-used standards and the significance of combined or interactive effects in determining the acceptability of an indoor environment.”

The cost of Guideline 10-2011, *Interactions Affecting the Achievement of Acceptable Indoor Environments*, is \$54 (\$46, ASHRAE members). To order, contact ASHRAE Customer Service 1-800-527-4723 or visit www.ashrae.org/bookstore.

Message to Donors and Non-Donors

Have you ever imagined this Society, or even the world without ASHRAE Research? Without the knowledge gained from Research, both would be practically unrecognizable...

How often do you reference the ASHRAE Handbook? What aspects of your job are made easier, or even possible, because of it? Well, without the support of Members like you the ASHRAE Handbook would not be as complete as it is today. [Take a look for yourself!](#)

As winter rages outside, many of us take for granted the automatic and safe warmth of our electric and gas heaters. However, without ASHRAE Research, how would we heat our homes?

Without ASHRAE Research, we would not enjoy many of the creature comforts we so often take for granted. And without your support, the research of tomorrow won't be possible! We need your support to fund the research of tomorrow TODAY! Please continue to support ASHRAE Research through your Dues and Chapter events.

For more information on Research and what is being done to improve the world around us please visit us on the web [HERE](#).

Help us fund the research of tomorrow TODAY! 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 https://www.ashrae.org/aboutus/resource_promotion.asp.

Contributing to ASHRAE Research is easy – give with your annual Dues, give at a Chapter meeting, give at a Chapter special event, give online [HERE](#), or send your contribution directly to ASHRAE Headquarters:

ASHRAE Research
1791 Tullie Circle, NE
Atlanta, GA 30329

Variable Refrigerant Flow Systems

What is VRF? VRF stands for variable refrigerant flow (VRF). Compressors are free to load and unload in response to refrigerant flow needs of individual indoor evaporator units. This type of system has been popular in Asia and parts of Europe for over 3 decades, but is gaining momentum in the U.S. ASHRAE is planning to dedicate an entire chapter to VRF for the 2012 AHRAE System handbook. Below is a table from a draft version of the variable refrigerant flow chapter that lists some advantages and disadvantages of using a VRF system.

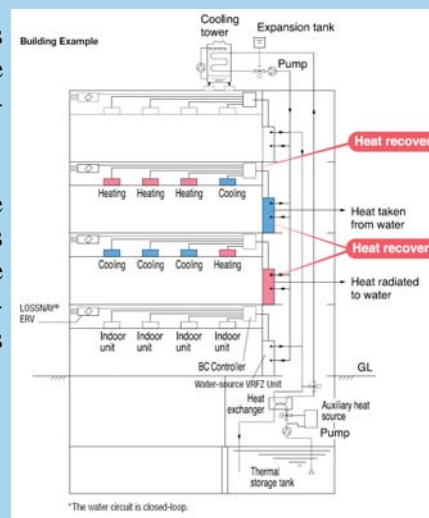
Table 1: VRF System Advantages and Disadvantages

Ite	Description	Variable Refrigerant Flow AC	Chilled Water AC System
1	Human Comfort	Partial – no humidity control,	Good – true air conditioning
2	Process cooling, heating,	Not applicable - no humidity	Good - May be designed for
3	Internal Air Quality	Partial – needs a auxiliary air	Good – may be designed for
4	Initial Cost	Similar	Similar
5	Operational Cost	Little higher at full load 1.25	At full load 1.18 kW/ton
6	Cooling capacity	Good performance until 100	Distance is only a matter of
7	Increasing cooling capacity	Not so easy, it may be neces-	It could be done by changing
8	Operation at partial load	Good performance and con-	Good performance and control
9	Customer or tenant control	Good - full control	No control on the operational
10	Compatibility with stan-	Partial. It is necessary to solve	Fully compatible
11	Long distance pipes	Up to 100 m is OK, more there	No problem.
12	Refrigerant management	Difficult it depends on the	Concentrate in a single equip-
13	Customer operation	Easy and simple – Good	Not so clear to customer - Ac-
14	Malfunction Possibility	To many parts and compo-	More reliable, just a few parts
15	Operational life expecta-	Up to 15 years - Acceptable	Up to 25 years – Good
16	Maintenance	Depends on the design, ac-	No problem - Good
17	Sales strategy	It is necessary to verify, the	Too much engineering stuff,

The below image also came from a draft copy of the 2012 ASHRAE Systems handbook that will deal with variable refrigerant flow (VRF) systems. The building example highlights how a VRF system can handle the need to provide simultaneous heating and cooling.

There are plenty of design, installation and maintenance issues to grapple with in a VRF system. The good news is that ASHRAE plans to address these critical issues in the 2012 ASHRAE Systems handbook. This once again underscores how ASHRAE continues to add value to the HVAC industry by codifying and centralizing knowledge on important matters such as VRF systems.

Adam L. Parke, P.E.
FWC Refrigeration Chair (2010-2011)



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 A. Chittenden
1967-68 Lamar King/Leland B. 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
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	

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)

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](mailto: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 <http://www.ashrae.org>.

Board Members, Committee Chairs and Contact Info:

<u>Jeff Ross</u> President 813-918-8252	<u>Shawn Jeffrey</u> Pres. Elect/Programs 813-731-1062	<u>Jason Proctor</u> V.P./Research Promotion 813-917-1648	<u>Philippe Jean</u> Membership/Education 813-541-3516	<u>Joe Souza</u> Treasurer/TEGA 813-309-2155	<u>Joe Cox</u> Secretary/Student Chair 813-763-9654
<u>Debie Horsey</u> YEA Chair 813-748-9406	<u>Dan Herrera</u> Historian 813-839-0506	<u>David Henry</u> Governor 813-310-8977	<u>Adam Parke</u> Refrigeration 813-228-1755	<u>Mike Costello</u> Publicity/Governor 813-300-4662	<u>Michael Cowles</u> Newsletter/Governor 813-241-6488
<u>Drew Elsberry</u> Nominating/Governor 813-267-0973	<u>Ike Crimm</u> Special Events 813-758-2749	<u>Leon Boe</u> Reception 813-879-0383	<u>Jason Babinec</u> Cyber Chair 863-581-6967	<u>Jason Proctor</u> Chapter Roster 813-917-1648	<u>Ike Crimm</u> Nominations/Governor 813-635-2271

ASHRAE FLORIDA WEST COAST CHAPTER

MAY 17, 2011

RAYMOND E. PATENAUDE, PE
COLUMBIA RESTAURANT, YBOR CITY

The Florida West Coast Chapter of ASHRAE is proud to have Mr. Ray Patenaude from The Holmes Agency coming to speak to our chapter on May 17th 2011 at the Columbia Restaurant in Ybor City about:



BUILDING ENVELOPES & BUILDING PRESSURIZATION

Mr. Patenaude, P.E. is a former ASHRAE Vice President and Distinguished Lecturer. He currently serves the Society as Chair of TC 1.12, Moisture Management in Buildings, Chair of the Project Monitoring Sub-Committee for the new "ASHRAE Guide for Buildings in Hot and Humid Climates" and a member of Standard 100, "Energy Conservation in Existing Buildings". In addition, Mr. Patenaude, P.E. is also a member of the National Society of Professional Engineers, the National Academy of Forensic Engineers, the National Academy of Building Inspection Engineers, the National Institute of Building Sciences, the Florida Engineering Society, Association of Professional Industrial Hygienists, the American Conference of Governmental Industrial Hygienists, and the Chairman of the Board of the Certified Indoor Air Quality Professionals.

Designing buildings in the Tampa Florida area requires the integration of techniques found in the ASHRAE Guide for Buildings in Hot and Humid Climates. Mr. Patenaude, P.E. will provide a presentation on the fundamentals of building envelopes in hot and humid climates, control of outdoor ventilation air with the use of dedicated outdoor air systems and building air pressurization. These three building systems are the main cause for concern for HVAC Engineers and comprise most building failures in hot and humid areas.

So please join us for the last meeting of the ASHRAE season and for Past President's Night!!!



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

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 shawn.jeffrey@kpiengineering.com or call (813)241-6488

Shawn M. Jeffrey, Sr.
FWC Programs Chair

<u>Meeting Schedule:</u>	
<u>Board Meeting:</u>	4:15pm — 5:30pm
<u>Registration:</u>	5:00pm — 6:00pm
<u>Main Meeting:</u>	6:00pm — 8:00pm



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Florida West Coast Chapter Research Promotion Contributors for 2010-2011

Silver \$1,000-\$ 2,499

Air Mechanical & Service Corporation
Dan Rogers
Florida West Coast Chapter – Fundraisers/Events

Bronze \$500-\$999

Advanced Automation Systems
Michael Fucile
Tampa Bay Trane
Automated Building Control Systems

Antique \$250-\$499

Original Solutions
Consulting Engineering Associates
Slade Ross
Shawn Jeffrey
Commercial Products Corporation
Stan Weaver & Company

Honor Roll \$150-\$249

Vickery & Company
Luvata Electrofin
Southern Independent Testing
Engineering Professionals

Individual Honor Roll – Investors \$100-\$249

Al Sanchez	Murray Woodgate
Joe Souza	Jason Proctor
Raoul Webb	Joe Cox
Jeffrey Ross	Phillippe Jean
Carl Lawson	Jay Allison
Thomas H Williams	Robert J Barstow
John Siegenthaler	Adam Parke
Andrew Elsberry	Ross Montgomery
Debie Horsey	PJ Crespo
Jennifer Isenbeck	Ted Hansen
Ray Patenaude	Jasper Scott
Albert Reet	William Smith



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CRC will take Place August 10-13th, 2011 in San Jose, Costa Rica

The Florida West Coast Chapter is very pleased to announce that we will be hosting the 2011 August Chapters Regional Conference at our Section in San Jose Costa Rica. The hotel will be in the capital of Costa Rica, but there will be opportunity to travel and experience the 12 microclimates. The country is about 200 miles wide so there is opportunity to go coast to coast, visit a volcano or extend into the clouds at 12,000 ft.



Mountainside in San Jose, Costa Rica headed to Paos Volcano

Proposed Agenda

Wednesday, August 10, 2011

6:30 PM – 8:30 PM Welcome Reception

Thursday, August 11, 2011

10:00 AM – 6:00 PM Registration
 8:00 AM – 11:00 AM Caucus Region XII
 11:00 AM – 12:00 PM Executive Session/Orientation
 12:15 PM – 2:00 PM Presidential Lunch
 2:30 PM – 6:30 PM Technical Session
 7:30 PM – 10:00 PM Dinner (Sponsor Rec. & Awards)
 10:00 PM - ??? Hospitality Suite

Friday, August 12, 2011

8:00 AM – 6:00 PM Registration
 8:30 AM – 12:00 PM Business Session I
 12:15 PM – 2:00 PM Awards Lunch
 2:15 PM – 6:00 PM Business Session II
 3:00 PM – 6:00 PM Hospitality Suite
 6:30 PM – 7:30 PM YEA Hospitality Hour
 7:00 PM – 11:30 PM Dinner on Own/Groups
 10:00 PM – ??? Hospitality Suite

Saturday, August 13, 2011

7:30 AM – 9:00 AM Registration
 8:30 AM – 12:00 PM Concurrent Committee Workshops
 12:30 PM – 5:00 PM Hospitality Suite

Information about Costa Rica

The Republic of Costa Rica, meaning “rich coast”, is approximately 0.25% of the world’s landmass (the size of West Virginia), it contains 5% of the world’s biodiversity and almost one quarter of the country’s land is protected national parks. Even though Costa Rica abolished its Army in 1949, the democratic government is run similar to US (three branches) and has its first female President, Laura Chinchilla. About 94% of the population is European decent (whites or mestizos), the literacy rate is 94% and has consistently highly ranked throughout the world for democracy, low poverty and is #1 in the America’s for Environmental Performance. The main cash crops are bananas, pineapples and coffee. For sustainability, Costa Rica is most known as a country that will likely meet **Net Zero carbon emissions** by 2030 or sooner (the government set a goal in 2007 that net zero will be reached by the country’s 200th Anniversary in 2021). The most impressive fact is that 98% of Costa Rica’s electricity already comes from renewable energy. Some of Costa Rica’s energy sources include geothermal energy, the burning of sugarcane waste and other biomass, solar and wind energy. However, the largest source of energy is hydroelectricity — its hydroelectric dams provide more than 82% of the country’s electricity. Therefore the production of electricity via waterfalls and other water sources are very dependent on rainfall.

Hotel—Barcelo San Jose Palacia



The **Barcelo San Jose Palacia** boasts the largest, most prestigious conference center in Costa Rica. With wireless connections throughout the hotel, the Barcelo San Jose Palacia provides modern solutions to increase productivity during your meetings and conventions. With our group ASHRAE rate, the expected cost of rooms will range from \$105-\$150/night. The hotel is fully equipped and the concierge is more than helpful to assist in arranging transportation, tours and recommend restaurants. The airport is about a 20-30 minute ride away.



A stunning view of the active Paos Volcano, just a short drive

Journey to Near Zero

Journey to Near Zero

Florida West Coast ASHRAE Chapter Hosts Region XII Chapters Regional Conference, August 2011

Sponsorships are Needed!

Have the Opportunity to Advertise throughout Florida, South and Central America!

FWC ASHRAE is asking for your help with a TAX DEDUCTIBLE monetary contribution to make this event possible. All sponsors will be very well represented at the conference with their names displayed on meeting materials, directories and a banner that will be hung at advantageous spots in the hotel. Further, a custom t-shirt will be given to every attendee that will display all sponsor names (including company logos with a sponsorship of \$1,000 or more). As a sponsor you will be invited to the Sponsor Recognition and Awards dinner at the conference where you will have the opportunity to meet Society Officers and be recognized for your generosity and support. As soon as the sponsorship funds are submitted, your company name will be listed on all CRC correspondence.

Sponsor Levels are:

EARTHLY STEWARD	\$5,000
NEAR ZERO HERO	\$1,500
SUSTAINABILITY LEADER	\$1,000
RENEWABLES ACHIEVER	\$500
GREEN GO GETTER	\$250

There are also opportunities to provide items for gift bags.
 If you are interested in Sponsoring this Event and receiving Sponsor Recognition and Privileges related to sponsorship, please contact:
 Jennifer Isenbeck (jisenbec@admin.usf.edu) or at 813-731-2203
 Jeff Ross (jross@sladerossinc.com) or at 813-250-0488

For more information:
www.ashraeRegXII-crc2011.org



Florida West Coast
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SUSTAINABILITY LEADERS



RENEWABLE ACHIEVERS



GREEN GO GETTERS



The Florida West Coast CRC Committee would like to thank our current CRC sponsors shown above. If you are interested in sponsoring please contact:

Jeff Ross
jross@sladerossinc.com
(PH) 813-918-8252

Jennifer Isenbeck
jisenbec@admin.usf.edu
(PH) 813-731-2203



Leadership Recall



**ASHRAE Chapter History
Leadership Recall Interview
Florida West Coast Chapter**

This is an official leadership recall account of Daniel G. Herrera as written by Dan himself.

Biographical Sketch:

I was born in the city of Bogotá, Colombia. I lived and studied there in Catholic elementary schools and moved on to state-run governmental schools for intermediate education. During the school breaks, I lived in the family owned farm nestled in the fertile temperate climate of the Andes Cordillera (Mountain Chain) in central Colombia which is very well known as the coffee growing region. As youths we enjoyed harvesting the red ripe coffee beans that were collected in large tanks for washing and preparation for running through a thresher to peel the berries to free the coffee beans that would be spread out in large open patios to let the beans dry in the sun. Once dry, the beans were collected into the sacks and loaded on to a team of mules to carry them to the Federation of Coffee Growers Warehouse at the nearest town for sale and distribution. The beans at this time are ready for roasting.

At age 14, I traveled to the United States to join my father who was living in Cleveland, Ohio as a radio and electronics technician who, under a program formulated by John F. Kennedy called the Alliance for Progress made it possible for skilled people like my father to obtain immigrant visas to live and work in the USA. In Cleveland I attended high school there and graduated in 1971. I attended the University of Toledo, in Ohio from 1971 through 1974 to study Mechanical Engineering with a partial scholarship from the Cleveland based East Ohio Gas Co. Since the funds were used up, by then I was faced with the decision to find new means to pay for college. I decided to join the United States Air Force.

After basic Training in San Antonio, Texas, I was assigned to Laughlin AFB, a pilot training base near Del Rio, Texas. During this assignment I continued with college education within the military organization until I was able to enroll in a ROTC type program for engineering and return to the University of Toledo to complete a Bachelor's Degree in Mechanical Engineering. After graduation, I was offered to join the Officer Corps. I extended my tour of duty and went to the Officer Training School in San Antonio at which time I became a Second Lieutenant. My next assignment was to Holloman AFB near Alamogordo, New Mexico. This assignment was special since it demanded combat training and preparedness to deploy anywhere in the world within 72 hours. During this assignment I participated in the Proud Falcon '82 USAF deployment to the Middle East. We deployed our cadre of personnel and equipment to support operations in Egypt in 1982.



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Leadership Recall (Cont.)



2nd Lt Herrera at Holloman AFB 1981



Lt Herrera in Valley of the Kings near Luxor Egypt 1982

After returning from this mission, I got married to Laura DiCostanzo, a girl I had met back in Cleveland, Ohio while she was studying there from Tampico, Mexico. I had seen her again while I was in Texas and then New Mexico. Shortly after the wedding I received orders to go to Eielson AFB, near Fairbanks, Alaska. So this was a new adventure for both of us since we were relocating to Alaska in the middle of the winter. We experienced the best the arctic could offer first hand: -40 deg. F this time I was assigned to the Base Civil Engineering Squadron. It was there where I truly started doing HVAC design after a brief course at the Air Force Institute of Technology, in Ohio and have been in this field since.

It was there in Fairbanks Alaska, during early 1985 that our first daughter Daniella Lorraine was born. Later that year my term of duty with the USAF was up, and I decided to return to civilian life. We then moved to Tampa, Florida. I started working for an A/E firm called Watson & Co. which later became Prime Design Inc. In 1986 I obtained my Professional Engineering License there. Later on I moved on back to Toledo, Ohio to work for a larger A/E firm known as SSOE. I did mostly commercial and institutional HVAC engineering design there. While in Toledo, Our second daughter Carla Gabriella was born in 1990. From 1992 through 1998, I took on jobs at different firms in Alaska, and Ohio until we decided to settle down in Florida, where I started working for Long and Associates. I became active with the Florida West Coast Chapter and started as the Chapter Historian..



Lt. Herrera on the way to Eielson AFB on board a KC-135 tanker in 1983



Lt. Herrera at Eielson AFB, Alaska 1984



Leadership Recall (Cont.)

Interests and Hobbies:

I enjoy Art, World History, Foreign languages. I support Youth Soccer activities.

Reasons for entering the Engineering and HVAC Industry:

I started by taking Mechanical drafting and also I enjoyed Science as a subject, and was interested in the Mercury and Apollo Space missions and always thought that that engineering would be a good field to study.

I started in the HVAC during my military service in the United States Air Force. I attended a month-long course in HVAC at the Air Force Institute of Technology at Wright -Patterson AFB Ohio. I have been in this field ever since.

Involvement with ASHRAE and the Florida West Coast Chapter:

During the HVAC course at Wright-Patterson AFB (1984), the instructors promoted ASHRAE membership. At the time, I did not hesitate to become a member, since I have known of ASHRAE through my Thermodynamics Professor at the University of Toledo, Ohio. Back then I was a student member of ASME and SAE (Society of Automotive Engineers) that was prominent in that area since it was located near the big automobile manufacturing industries in Detroit, Michigan.

I was an Associate member during my active duty in the Air Force and did not participate in any Chapter functions during my assignments at either Holloman AFB, New Mexico or Eielson AFB, Alaska. I was glad just to get the Journals and the Handbooks every year. While I was working at SSOE, a large A/E firm in Toledo Ohio, the Mechanical department manager of the commercial Division in which I was working, also the President of the Toledo Chapter, convinced me to attend the Region V CRC at Frankenmuth, a town near Flint, Michigan. So I went, and experienced the activities that the CRC there had to offer. Frankenmuth is a tourist place in Michigan that had Christmas as its main theme. After returning to Toledo, I became the Refrigeration Chair, then later the following year, the membership promotion Chair.

I became involved with the Florida West Coast Chapter when a vacancy existed for Chapter Historian in 1999. I was the Historian until nominated by Colleen Smith to be the Chapter Secretary in 2001-02. I then moved to Treasurer in 2002-03, then to be the Membership Chair in 2003-04. Research Promotion in 2004-05, Technology Transfer Committee and Programs Chair in 2005-06, President in 2006-07. Currently the FWC Historian once again.

Major Issues facing the Industry:

The major issues were coping with the new energy conservation policies in the aftermath of the Arab oil embargo back in the seventies. This gave rise to lower ventilation rates and the first real push to make refrigeration and air conditioning equipment more efficient. Also, computers were becoming more prominent in design and drafting CADD. Prior to this, most A/E firms were doing designs with manual drafting and manual calculations with numerous load forms to fill out.

ASHRAE interactions with Community:

At the time I knew that ASHRAE was formulating standards for the industry on refrigeration; on manual HVAC load calculations and the Modified Bin Method for energy analysis, weather data information worldwide.

People who stand out as major influences:

It was during my High School years in Cleveland Ohio... My Chemistry teacher Mr. Umans and my Physics teacher Mr. Brady along with my Mathematics teacher Mrs. Johnson that influenced me in choosing science and engineering as a subject for higher education. Also I mentioned before that my Thermodynamics professor, Dr. Ernest Weaver, and my Machine Design professor, Dr. Miller had a strong influence in staying in Mechanical Engineering.



Florida West Coast

CHAPTER

Leadership Recall (Cont.)

Events that Changed ASHRAE and the Industry:

The fact that with the help of the Internet ASHRAE has become a world-wide Society not just American as the "A" in ASHRAE indicates. The inclusion of the metric system in the calculation database. Now the Manuals are published in Spanish and Portuguese.

The use of the computer and higher technology has definitely changed how load calculations are done, and how building controls and equipment controls have improved to have DDC and BACNet, LonWorks and the like. The Internet and global communications along with pressures to conserve energy and increase efficiency.

ASHRAE and the growth of Industry:

ASHRAE has, through Research and Technology dissemination, become the standard to which the industry can gauge itself to provide better, more efficient equipment and improved methods that benefits today's society, and gives governmental entities verifiable means to enact codes that are based on tested engineering results.

Advice to young engineers entering the field:

Learn as much as possible, attend seminars, go to the technical meetings and stay in touch with the ever changing technologies. The HVAC field is necessary as long as society continues to live and work in buildings that inevitably require environmental control, air quality comfort and healthy living.

Job Opportunity



Gulf Coast Mechanical Sales, Inc.

HVAC SALES ENGINEER

JOB DESCRIPTION: Outside sales position for motivated and knowledgeable associate. Duties will include calling on HVAC design professionals, mechanical contractors, design-build contractors, service contractors and end users to promote, apply and sell the products that the Company represents.

EXPERIENCE: A basic understanding of HVAC chilled water systems from concept through operation. The sales engineer should be familiar with the role of each major piece of equipment in a commercial HVAC chilled water cooling system with major emphasis and knowledge of Cooling Towers, Pumps, Variable Frequency Drives, Cooling Tower Filtration and Plate & Frame Heat Exchangers. Experience and knowledge of Air Handlers, Water Source Heat Pumps and Fan Coil Units and Service will also help.

Two to Three years minimum experience in the HVAC industry and familiar with the major firms driving the HVAC market on Florida's West Coast

COMPENSATION: Bi-weekly draw against future and earned commissions. Car allowance, reimbursement expense account, mobile smart phone and laptop computer usage, group health insurance assistance, vacation and sick day policy

COMPANY: GULF COAST MECHANICAL SALES is an established HVAC Manufacturer's Representative Firm located in the Tampa, Florida area. GCMS currently represents major manufacturers of HVAC products including Cooling Towers, Cooling Tower Filtration, Variable Frequency Drives, Plate & Frame Heat Exchangers and various complimentary products. The manufacturers represented are among the industry leaders for their products and are widely accepted throughout the industry.

TERRITORY: The West Coast of Florida from Citrus County in the North to Collier County in the South and East to Polk County. In this territory we are the exclusive representative for our products.

CONTACT: Contact Frank Grandinetti at the below listed office telephone number or e-mail a resume to frank@gulfcoastmechanicalsales.com

Job Opportunity



TTI

THERMAL TECH, INC.

An Employee Owned Company

Heat Transfer Products For Industry

Job Description

Job Title:	Sales Engineer	Prepared By:	Rick Wilkins
Department:	Sales Department	Date:	April 22, 2011
Reports To:	Company Management	Location:	Tampa, FL
FLSA Status:	Exempt		
Hours:	Standard 8:00 AM – 5:00 PM		

Basic Function

To develop commercial product line promotion and sales through "Plan & Spec" market.

Responsibilities

1. Engage Engineers and Contractors with a goal of obtaining favorable results of getting the company's product line incorporated into the standard specs and / or drawing schedules.
2. Assist Engineers and Contractors with equipment selection and system layout with hydronic systems and domestic water heating systems.
3. Pursue bid jobs in the "plan & spec" market as it relates to product line.
4. Analyze project documents and information for applicable jobs and properly identify applicable products and variances to specs.
5. Assemble proposals for presentation to customers for applicable project.
6. Assist in quoting activities for other Sales Engineers in the company.
7. Negotiate with customers for sale of product.
8. Maintain log of quoted projects and follow-up correspondence.
9. Maintain contact with assigned accounts to assess market needs.
10. Keeping current with industry standards and applications.

Skills

Oral Communications Skills	Ability to Multi Task	Diplomacy
Leadership	Detail Oriented	Professionalism
Customer Service	Organization	HVAC System Knowledge
Computer Literate	Time Management	Basic Business Management

Education

Degree: College Degree in Business or Engineering.

Experience

Minimum of three (3) years of prior HVAC experience and knowledge of equipment and application. Product Application Sales experience a plus.

Area of Coverage

Central West Coast of Florida

ASHRAE CENTRAL FLORIDA MAY MEETING
MAY 12TH, 2011, 6:00 PM EST

“Modeling a Sustainable World”

A presentation by ASHRAE Society President Lynn Bellenger



Lynn Bellenger, P.E.

Lynn G. Bellenger, P.E., Fellow ASHRAE, is a partner with Pathfinder Engineers and Architects LLP in Rochester, NY. She is also an ASHRAE Certified Building Energy Modeling Professional, High Performance Building Design Professional and the first woman president of ASHRAE in the societies rich 116 year history. As ASHRAE’s president, she directs the Societies Board of Directors and oversees the executive committee.

In addition, Lynn has served as Society President-Elect, Vice President and Treasurer. She is also the recipient of the Exceptional Service Award, the Distinguished Service Award, the Lincoln Bouillon Membership Award and Two first-place ASHRAE Technology awards.

Lynn Bellenger, P.E.
2010-2011 ASHRAE
Society President
Fellow ASHRAE

This Year, Lynn’s presidential theme, Modeling a Sustainable World, notes that through energy simulation, daylight analysis, CFD and BIM software, we have extremely powerful tools at our disposal that enable us to create and refine our definition of our vision for buildings - their appearance, systems, operation and performance.

The resources and tools we have, when used effectively in an integrated design process, presents opportunities in existing buildings and new construction. These tools help guide building owners, architects, developers and contractors in building orientation, shading, and shape and the selection of construction materials and systems that optimize performance.

“Our biggest Challenge is implementing integrated design in daily practice. The traditional approach where the architect designs the building shape, orientation, and envelope and then transmits the drawings to the mechanical and electrical engineers for their design is a silo approach that misses the rich opportunities for optimizing building performance through a collaborative approach from the beginning. It is going to require a real cultural shift in our industry to transform the design process, and it’s a shift that has to occur if we are going to reach our goal of net-zero-energy buildings.”

Please Join us on May 12th to Welcome ASHRAE Society President Lynn Bellenger to Central Florida!

Lynn will also be hosting a meeting for ASHRAE YEA Members at 6:20. Emerging Professionals with the USGBC are also welcome to attend!

Meeting Location:

Dubsdread Historic Banquet Hall
549 Par Street
Orlando, FL 32804

MENU:

Ribeye Steak and Shrimp Skewers
With Key Lime Pie

Make your reservation today at <http://www.ashrae-cfl.org>
RSVP or Payment before May 9th: \$25.00
After May 9th or at the door: \$30.00

For additional information, or to request the vegetarian meal option contact John Miller at: jmiller@peifla.com
Chapter may not act for society



ASHRAE Central Florida would like to welcome our friends with the following organizations:





ASHRAE Technology Awards

Show the World You Made It



So why haven't you entered?

Be the winner of the industry's most prestigious honor for efficient use of energy in building and environmental system performance.

The ASHRAE Technology Awards recognize, on a global scale, successful applications of innovative design, which incorporate ASHRAE standards for effective energy management, indoor air quality, and mechanical design.

Awards are given annually in the following categories:

- Commercial buildings
- Industrial facilities
- Health care facilities
- Residential
- Public assembly
- Alternative or renewable energy use
- Institutional buildings

ASHRAE would like to recognize our 2009 first place winners:

- **Kenneth Sonmor**—St. Laurent Office Tower/Montreal, Canada
- **Laurier Nicols**—Centre Communautaire de Mississini/Misstissini, Quebec, Canada
- **Thomas Durkin**—HVAC Renovations at George Washington Carver Elementary School Indianapolis, Indiana
- **Jacques de Grace**—Normand-Maurice Building/Montreal, Quebec, Canada



For forms, information and deadlines visit www.ashrae.org/technologyawards

Contact your CTTC RVC or R. Douglas at ASHRAE headquarters

Phone: 678.539.1128 | **Email:** rdouglas@ashrae.org

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.



Florida West Coast
CHAPTER

American Society of Heating, Refrigerating and Air-Conditioning Engineers



Sarasota-Bradenton Section

Meeting Notice
Thursday May 12, 2011

Air to Air Energy Recovery "MythBusters"

Air to Air Energy recovery "what shall I use?". There are wheels, fixed plates & sensible only coil types using water or refrigerant! Oh my! What shall I use? The 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, and prior to the program meeting an email requesting questions of our panelists. This program allows you to ask the questions of our panelists, whom will give you their opinions. Which, based on these characters, very well may vary!

We will be also having a 50/50 drawing that evening.

Presenters/panel members for the Evening

Philippe Jean PE
Stan Weaver & Co

John Siegenthaler
Tampa Bay Trane

Al LaPera CxA, LEED AP
TLC Engineering

Scott Coy

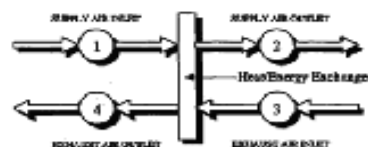
MC for the evening

Holiday Inn, Lakewood Ranch

6231 Lake Osprey Drive Sarasota, Florida 941-782-4400



Social: 6:00PM
Dinner 6:30 PM
Program 7:00 PM
Non Member Cost \$25
Member Cost \$20



Meal choices are as follows:

- Fish Dinner-Broiled Filet of Tilapia Imperial
- Chicken Dinner-Grilled Filet of Chicken
- Vegetable Dinner-Grilled Portobello Mushroom

Need RSVP no later than Tuesday 5/6/11 to

scott@indoorenvironmentaltestina.com

