So ends another year for the Florida West Coast ASHRAE Chapter. I would like to thank the two of you who are still reading these presidential articles I write every month. Well I wrote most of them. The ones with a lot of misspellings..................yeah those were me. The ones that were semi-humorous or had meaning were written by FWC Past President Jeff Ross. Thanks for being my scribe when I had writers block.

In case you missed it, and by the turn out it doesn’t appear many of you did, the Shrimp Boil was an outstanding success.

We had over 225 attendees making the 2013 the “largest shrimp” boil yet. Largest shrimp..........................sorry, I couldn’t resist. I would like to personally thank Mike Costello, Leon Boe and the other fine folks that pulled this event off. It was very nice to see some faces we haven’t seen in a while such as FWC Past President Drew Elsberry. By the way Drew, we still do this thing the third Tuesday of every month at the Columbia. Feel free to send Jeannie if you can’t make it. We like her more than you anyway. Joe Cox, your mom makes the best corn casserole ever. Ever. Paula Deen called and would like the recipe.

Our annual golf tournament was run by Mr. Ike Crimm again this year. Ike has a tendency to outdo himself every year. If you didn’t know, the golf tournament provides most of the money your chapter uses to operate throughout the year. It is safe to say, we will be operating in the black next year as well. Ike, I’m sure the PGA could use your skills if this whole engineering thing doesn’t pan out. Just saying.

I would like to say thank you to all board members that made this year a success. We carried on the momentum that the FWC has built up in the past several years. I would like to wish Philippe Jean luck as he takes over the reins for next year.

One final note, please do not forget that HVAC Vietnam is going on May 3rd through July 3rd 2013 in Ho Chi Minh City Vietnam. If you are in the area please be sure to stop by.

Jason Proctor
FWC President (2012-2013)
Tuesday, May 21, 2013

Variable Refrigerant Flow Panel Discussion
&
Past President’s / History Promotion Night

Variable refrigerant flow (VRF) is becoming more prevalent on projects both domestically and internationally. The panel for ASHRAE’s VRF discussion has experience with VRF projects including initial load diversity, build out complications, ASHRAE 15, ASHRAE 61, churn, startup, commissioning, and re-commissioning. Panelists will be providing a brief overview of the design and build process as well as the challenges of the design process. The VRF process will be discussed from the developers’, engineers’, contractors’, and tenants perspectives.

Please RSVP on the FWC website at: http://www.ashrae-fwc.org/chapter_meetings.htm
Cost: $35 thru PayPal before the 20th, or $40 the day of Event with PayPal.
Email any questions or to RSVP email pjean@stanweaver.com or call (813)879-0383.
Philippe Jean, P.E., LEED® FWC Programs Chair.

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

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

Thanks to everyone that has contributed to our chapter RP goal this year, we are currently at 74% of goal with $5433 left to collect. Any chapter member that has not donated is requested to do so as soon as possible. Contributions can be made online at https://www.ashrae.org/standards-research-technology/research-promotion. Donations of any amount will help our chapter reach our goal, and provide valuable funding that will be used to enhance our living environment.

Here is a listing of the research RFP’s that are due on 5/15/13, please let me know if I can assist anyone with a grant application.

1399-TRP (Rebid), “Survey of Particle Production Rates from Process Activities in Pharmaceutical and Biological Clean-rooms” Sponsored by: TC 9.11, Clean Spaces

1447-TRP (Rebid), “Performance of Pressurized Stairwells with Open Doors” Sponsored by: TC 5.6, Fire and Smoke Control


1588-TRP, “Representative Layer-by-Layer Descriptions for Fenestration Systems with Specified Bulk Properties Such as U-factor and SHGC” Sponsored by: TC 4.7, Energy Calculations


1641-TRP (Rebid), “Effect of Unsaturated Fluorocarbon Contaminants on the Reliability and Performance of HVAC&R Equipment” Sponsored by: TC 3.3, Refrigerant Contaminant Control

1645-TRP, “Development of New Accelerated Corrosion Test(s) for All-Aluminum Microchannel and Tube and Fin Heat Exchangers” Sponsored by: TC 8.4, Air-to-Refrigerant Heat Transfer Equipment

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.

Contact: Joe Souza (813-308-2155 or joseph.souza@lge.com) 4208 Fox Ridge Blvd, Wesley Chapel, Florida 33543
### 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, PE
- Mr. Alberto J Sanchez, PE
- Mr. Jason C Proctor
- Mr. Joseph R Cox
- Mr. Joseph D Souza
- Mr. Shawn M Jeffrey, Sr
- Mr. Jasper S Scott, Jr
- Mr. Jack J. Eunson
- Ms. Jennifer A. Isenbeck, PE
- Mr. Martin A. Vicari
- Mr. Thomas H. Williams
- Mr. Daniel R. Rogers, PE
- Mr. Ross D. Montgomery, PE

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**ASHRAE Expands Job Opportunity Board**

ATLANTA - ASHRAE members now have increased opportunities to find jobs within their chosen field under an expanded jobs board.

The expansion between ASHRAE and BirdDog, which have worked together since 2009 to provide job board support at [www.ASHRAEjobs.com](http://www.ASHRAEjobs.com), will make it easier for employers to fill built environment technology positions, as well as provide ASHRAE members with increased opportunities to find jobs within their chosen fields. The expanded ASHRAEjobs site specifically allows employers, looking to hire ASHRAE members, to post their listings throughout the BirdDog family of job boards, as well as ensure all ASHRAE members have the opportunity to see the job posting.

"Our members are in high demand, and that's good news," Tim Wentz, volunteer chair of ASHRAE's Publishing and Education Council, which oversees ASHRAEjobs.com. "Unfortunately, like so many industries, companies wanting to or already employing ASHRAE members, report troubles finding the right candidate. The improved ASHRAEjobs site, along with its four years of history, gives us the foundation to expand our efforts and ensure the right talent is being matched up with right job."

"It had become evident in the past year that there was a gap between what we had in place and an increasing demand for both employers and job seekers to have a solution that was both effective and efficient," Bryan May of BirdDog said.

This announcement comes at a time where employers are reporting difficulties finding qualified candidates for open positions. ASHRAE members are the global leaders of building technology. To qualify as a full ASHRAE member, a minimum of 12 years professional experience must be shown in the industry.

The new service launched April 15, 2013. Employers who have questions about the expanded partnership should contact Bryan May at 515-473-9212.

BirdDog provides a cloud-based recruitment and applicant tracking software to small and medium sized companies across the country that simplifies the hunt for right-fit candidates.

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry.
ASHRAE STUDENT TRANSFER FORM

save money. save time. transfer online.
www.ashrae.org/smartstart

Name

Current Address: (This will be where all correspondence will be sent unless otherwise specified)

Address

City State/Province Zip/Postal Country

Permanent Address: (OPTIONAL - During the summer months and after graduation)

Address

City State/Province Zip/Postal Country

Business Address: (OPTIONAL - Fill out this section and check the box below if you prefer correspondence mailed to your business address)

Address

City State/Province Zip/Postal Country

E-mail Alternate E-Mail

Telephone Fax

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

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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?

1. Consulting Engineering
2. Architectural and Engineering Services
3. Design/Build
4. Contractor
5. Property/Asset & Development
6. Construction/Construction Management
7. Commercial Facility
8. Government, Healthcare, Education
9. Utility
10. Manufacturer/Supplier/Equipment
11. Manufacturer/Service
12. Sales Engineering
13. Designer/Contractor
14. Library
15. Technical, Professional or Trade Association
16. Students
17. Other (Specify)

Which best describes your title?

18. President
19. Partner
20. Associate
21. Owner
22. Vice-President
23. Vice-President, Chief Engineer
24. Chief Engineer
25. Project/Plant Engineer
26. Facility Manager/Engineer
27. Research/Development Engineer
28. Sales Engineer/Sales
29. Purchasing Agent
30. Draftsman
31. Estimator
32. Technician
33. Instructor/Professor
34. Student
35. Librarian
36. Other (Specify)

Which best describes your function?

37. Design/Engineering
38. Manufacturing
40. Management
41. Sales
42. Research
43. Teaching
44. Other (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) • 404-636-8800 (world-wide) • Fax: 404-321-5478 • www.ashrae.org
Carbon Monoxide Alarms Required, Default Leakage Rate Removed in New ASHRAE Residential IAQ Standard

ATLANTA – The newly published 2013 version of ASHRAE’s residential indoor air quality standard removes the default leakage rate assumption and also requires carbon monoxide alarms.

ANSI/ASHRAE Standard 62.2-2013, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings, is the only nationally recognized indoor air quality standard developed solely for residences. It defines the roles of and minimum requirements for mechanical and natural ventilation systems and the building envelope intended to provide acceptable indoor air quality in low-rise residential buildings.

One of the biggest changes in the standard over the 2010 version was an increase in mechanical ventilation rates to 7.5 cfm per person plus 3 cfm per 100 square feet. This is due to the earlier removal of the earlier default assumption regarding natural infiltration.

The Standard 62.2 Committee had previously assumed homes got a minimum of 2 cfm, per 100 square feet, according to Don Stevens, committee chair.

“Because research shows houses have gotten tighter and apartments have always been tight, the 2013 edition drops this default assumption and calls for the entire amount to be provided mechanically,” he said. “The only exception is when single family homes have a blower door test – then the predicted average annual leakage rate can be deducted.”

Another major change is a requirement for carbon monoxide (CO) alarms in all dwelling units. CO poisoning leads to hundreds of deaths and thousands of injuries each year in homes, resulting from automobiles left running in attached garages as well as from portable generators, power tools and heaters, according to Paul Francisco, committee vice chair. A small fraction of poisonings also result from failed central heating combustion appliances.

“Residents have very little ability to sense the presence of CO without detectors, unlike many other indoor polluting events,” he said.

Whether to include CO alarms as a requirement in the standard had been discussed since the standard was first proposed with debate focused on the unreliability and cost of alarms.

Francisco said the committee believes the time has come to make this change, noting that it brings the standard into closer alignment with the International Residential Code, which requires alarms if the house has combustion appliances or attached garages, and with many states that have passed laws requiring CO alarms.

The requirement goes a step further, expanding the protection to all homes, regardless of fuel type or garage configuration, reflecting the fact that many CO exposures occur due to causes completely independent of these factors, he said. It also requires that alarms be hard-wired with battery backup to address an increased likelihood of high CO exposure events during power outages.

Other significant new changes include the removal of the climate limitations on pressurization and depressurization; specifications related specifically to multifamily buildings; and new calculations and weather data for estimating annual leakage based on a blower door test.


To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 678-539-2129, or visit www.ashrae.org/bookstore.

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry.

Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow’s built environment today.
Membership Promotion

If you are, or know someone that is a prospective new member the Affiliate grade of membership may be for you. This program is for individuals at or under the age of 30 that are new to ASHRAE (not previously a Student or Associate member). These members will receive a discounted rate:

- $50 for the first year
- $70 for the second year
- $190 for the third year

Participants in this program still receive most of the benefits of Associate Membership (except the ASHRAE Handbook) but at a considerably discounted rate (Current Associate Member dues are $190 per year). Information can be found at:

http://www.ashrae.org/membership-conferences/student-zone/membership-and-meetings/affiliate-member-grade

If you have any questions, please contact me at: 813-250-0488, or jcox@sladerossinc.com

Joe Cox, Membership Promotion (2012-2013)

President Obama Issues FY 2014 Budget Request to Congress

Last week President Barack Obama issued his much-anticipated fiscal year 2014 budget request to Congress. While this comprehensive document may ultimately have little influence in Congress, given the partisan divide, it does provide an in-depth look into the Administration’s thoughts, goals, and priorities in a wide range of areas. This is especially important as the Administration is continuing to explore what it can do via Executive action that does not require the approval of Congress to achieve its objectives.

Below are highlights of funding level requests. For additional information please contact Mark Ames, ASHRAE Senior Manager of Federal Government Affairs, at mames@ashrae.org.

Department of Energy:
- Office of Energy Efficiency and Renewable Energy: $2,775.7 million (+$995.1 million over current funding levels)
- Building Technologies Office: $300.0 million (+$85.2 million) Energy Information Administration (administers the Commercial Buildings Energy Consumption Survey [CBECS]): $117 million (+$11 million)
- State Energy Program: $57 million (+$7 million)
- Weatherization Assistance Program: $184 million (+$116 million)
- Race to the Top for Energy Efficiency and Grid Modernization: $200 million (new program; requires congressional approval; would be a one-time funding award to states)

General Services Administration (GSA)
- Office of Government-wide Policy (includes the Office of Federal High-Performance Green Buildings): $62.5 million (+$1.5 million)

Department of Education
- STEM Education (overall): $71.2 billion (+$3.1 billion)
Codes and Standards Updates Face Challenges in State Legislatures

In many states, building codes – including code-intended model energy efficiency standards like ANSI/ASHRAE/IES Standard 90.1 – are adopted, with or without amendment, on a regular cycle. These cycles are usually based upon the publication of the new editions of codes and standards; in the case of Standard 90.1 (and most other codes and code-intended standards), those published updates occur every three years. Now, however, several state legislatures – including Louisiana, North Carolina, Illinois, and Wisconsin – are examining pushing back those updates or, in some cases, rolling back the codes to earlier versions, with the argument being that code and standard updates are too costly to implement on so frequent a basis.

These proposals are problematic for ASHRAE for several reasons.

1. Codes and standards developed and revised on a regular three-year basis ensure that the latest advances in efficiency- and safety-related technologies and techniques (which are moving forward at a faster rate than ever) are codified and made available to technical professionals and code officials in a way to ensure the health, safety, and welfare of the general public.

2. Delaying code and standard update cycles puts a state far behind others. For example, if a state enacts a delay law this year, the newest editions of the standards and codes wouldn’t be implemented until 2015, while other states would, presumably, have adopted these newer editions. This means that the construction industry and code inspectors would need to absorb six years of new information at one time. Also, consumers may have less access to technologies developed since the last update because the design community and code officials may have inadequate safety installation information.

This is a dangerous trend that may spread to your communities, so please be on the lookout for such proposals. If one does arise, please contact Mark Wills, ASHRAE Manager of State and Local Government Affairs, at mwills@ashrae.org, so connections with ASHRAE leadership – especially the Regional ViceChairs on the Grassroots Government Activities Committee (GGAC) – can be made quickly and ASHRAE chapter and section action can follow in short order.

For more information on grassroots activities, go to a newly posted web page (https://www.ashrae.org/government-affairs/grassroots-government-activities), like” the GGAC Facebook page, or simply watch for subsequent grassroots news in upcoming editions of Government Affairs Update.

Obama Energy Secretary Nominee Testifies Before Senate

Dr. Ernest Moniz, President Barack Obama’s nominee to head the U.S. Department of Energy (DOE), testified before the Senate Energy & Natural Resources Committee on April 9th.

If confirmed by the Senate, Moniz, who is currently the Cecil and Ida Green Professor of Physics and Engineering at MIT, would replace Dr. Steven Chu, who is now the longest-serving Secretary of Energy.

While Moniz revealed little about changes he might bring to DOE, you can explore his background, view his testimony, and watch the archived webcast at http://ow.ly/kcvJr.

For additional information please contact Mark Ames, ASHRAE Senior Manager of Federal Government Affairs, at mames@ashrae.org.
FWC ASHRAE Sustainability Committee Wants YOU!

Are you interested in learning more about Building Modeling? What kinds of tips can your peers offer? What software and tools can be used, what is your favorite? What is free? What is required? What is ASHRAE 90.1 Appendix G and where are Standards 189.1 and 90.1 going?

We would like to conduct a focus group just for our Florida West Coast members. Join us for an hour over lunch so we can discover ways to help YOU! We are looking at dates in January.

Email: Jennifer Isenbeck, PE, LEED BD+C, CPMP jisenbeck@ut.edu (FWC Sustainability Chair)

Where can you find FREE resources on Sustainability?

For ASHRAE members only:


ASHRAE FREE Webcast: April 18, 2013 “Assessing Building Energy Performance: From Practice to Principals”

Other FREE Resources and Great Case Studies and Articles:

High Performance Buildings Magazine: http://www.hpbmagazine.org/

BIM Guide: http://www.ashrae.org/resources--publications/free-resources/free-publications


The Living Building Challenge: a Philosophy, Advocacy Platform and Certification Program that promotes a Visionary Path to a Restorative Future. See: https://ilbi.org/lbc

How ASHRAE Volunteers:

Read ASHRAE President Tom Watson’s letter and promotion of Sustainability as this year’s theme: Broadening ASHRAE’s Horizons, http://www.ashrae.org/society-groups/volunteer/ashrae-community-sustainability-projects
Region XII CRC hits Lido Beach in Sarasota!
Grab your flip flops, shades and lotion—we are headed to the beach!

The Quick Info:
Dates: July 31—Aug. 3
Website: www.ashraeregionxii-crc.org
The website has the schedule, registration (both hotel and events), Tech Session and some general information. Note it is being updated almost weekly. Stay tuned for Spouse/Companion events, local tourism, museums, etc.

**Holiday Inn Lido Beach**
Map
Reservations for rooms will be made by INDIVIDUAL CALL IN. All reservations must be made by **July 02, 2013**, in order to receive the preferred rates. Please request the **ASHRAE preferred rate**. Please call the hotel at (941) 388-5555 or (800)892-9174 for reservations. Generally:
$129.00 + 12% tax for Cityview, $159.00 + 12% tax for Gulfview

**Note that Chapters and Regions may not act on behalf of the Society.**

Don’t Forget:
♦ Pre-CRC Regional Planning, May 3, 12:30–4:30 PM, Citrus Club, Orlando (Florida Delegates required, Outside of Florida via Conference Call),
♦ 2013-2014 CIQs are due June 1, 2013, Members must be in good standing
♦ ASHRAE Annual Conference—Denver, June 22 -26, MP Centralized Training

Recent photo taken in April, 2013—Gulf view from Holiday Inn
Schedule of Events

AGENDA AND TIMELINE

Region 12 CRC Sarasota Technical Session

Thursday August 1, 2013 1:30 pm – 5:30 pm

1:30 PM Kick-off, Introductions and Announcements .......... Ross
Montgomery (FWC chapter/Sarasota Bradenton Section)

1:35-2:00 pm Brazil’s Building Environment in Developing Economy
Areas .......... Oswaldo Bueno (Brasil chapter)

2:05-2:35 pm 5 Things Not to do in a Hot/humid Area
Robert Baker (FWC chapter)

2:40-3:20 Colombia and its Obstacles of Design and
Construction .......... Fabio Clavijo (Colombia chapter)

3:20-3:40 pm Break

3:45-4:10 pm Engineering, HVAC, and ASHRAE: Expanding Opportunities
for Women .......... Julie Ferguson (FWC/SWF chapter)

4:15-5:10 pm Building Enclosures – The Final
Frontier .......... Raymond E. Patenaude, P.E. (FWC chapter)

5:10-5:30 pm Wrap-up and Questions .......... Ross Montgomery

Master of Ceremonies:
Ross D.
Montgomery, P.E
.CxA
Past FWC President James H. Carroll Jr. was inducted into the Alabama Engineering Hall of Fame on February 23, 2013 in recognition of his company’s contribution to the air conditioning industry in the Southeast. Our chapter is very proud of all of Jim’s achievements/service as detailed below.

Mr. Carroll is C.E.O. and President of Carroll Air Systems, Inc., a company he founded in 1972 which currently has offices in Tampa, Orlando, and Fort Myers.

Jim has been a member of ASHRAE since 1961. He has been a Registered Engineer in the State of Alabama since 1966, and is a member of the National Society of Professional Engineers, Florida Engineering Society, and a member of Florida West Coast Chapter of ASHRAE since 1972. He served the Florida West Coast Chapter Board from 1974 through 1980. He served on many levels within the Chapter such as Programs Chairman, Research Investments Chairman, and Membership Chairman. The Chapter received the Regional Chairman’s Award for the 1979-80 year in which he served as President.

On the Society level of ASHRAE, Jim served as Regional Vice Chairman in 1981-82; on the Society Board of Directors as Regional Chairman from 1983 through 1986; Regions Council 1983, Member Council 1985; Chairman of Region Council’s Functional Planning Committee; Chapter Operations Committee; Society Nominating Committee; and Society’s Presidential AD HOC Committee on Issue Advisory in ASHRAE’s Strategic Plan. He is a former Chairman of Engineer’s Week of the Alabama Society of Professional Engineers while serving as an officer of the Birmingham Chapter.

He has a BS degree from Auburn University where he was member of Phi Kappa Tau social fraternity, Alpha Phi Omega service fraternity and Squires Honorary fraternity. He is presently serving on the Auburn Alumni Engineering Council, the Engineering Dean’s Club, and the Auburn Athletic Advisory Council. He previously served on the Auburn University National Alumni Board of Directors.

In civic activities, Jim is a member of the Greater Tampa Chamber of Commerce and Committee of 100 since 1979. He has been a member of Emeritus Sertoma Club of Tampa since 1972. He was a Sertoma club president, District Governor, and a Director on the International Board of Directors of Sertoma. He is currently on the Vestry of St. John’s Episcopal Church; is a past Junior Warden, a member of the property committee for the location of St. John’s Middle School; and was recently Co-Chairman of the Search Committee for St. John’s Episcopal Church.
Past Presidents

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<td>2004-05</td>
<td>Ted S. Hansen, Sr.</td>
</tr>
<tr>
<td>2005-06</td>
<td>P.J. Crespo</td>
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<tr>
<td>2006-07</td>
<td>Dan Herrera</td>
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<tr>
<td>2007-08</td>
<td>Jennifer Isenbeck</td>
</tr>
<tr>
<td>2008-09</td>
<td>Debbie Horsey</td>
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<tr>
<td>2009-10</td>
<td>Drew Elsberry</td>
</tr>
<tr>
<td>2010-11</td>
<td>Jeff Ross</td>
</tr>
<tr>
<td>2011-12</td>
<td>Shawn Jeffrey, Sr.</td>
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</tbody>
</table>

Board Members, Committee Chairs and Contact Info:

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

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