Main Program: Take Control: Using Analytics to Drive Building Performance

ASHRAE Webinar Series Presents the above topic:

This webcast will feature industry experts who will define the importance of, and why we should strive for, better building operations through improved controls and analytics. Viewers will be able to describe key elements of controls and analytics for building operations, and identify steps required to deploy analytics in building projects, including commissioning. This program will quantify through improved controls and analytics.

Viewers will be able to describe key elements of controls and analytics for building operations, and identify steps required to deploy analytics in building projects, including commissioning. This program will quantify through improved controls and analytics.

Please note:

1. There will be four speakers addressing the topic.
2. (3) Professional Development Hours (PDHs) available
3. (3) HSW Learning Units (LU/HSW) available
4. (3) Continuing Education Hours by GBCI available

See attached schedule for speaker times

A message from Mr. Richard Brooks, SWFL ASHRAE President

Greetings SWFL Chapter. Only a few meetings left in the ASHRAE year. Let’s make the most of them!!

I hope everyone had a wonderful SWFL Winter, but now Spring is here. March Madness is behind us. The Baseball Season has started. Colleges are having Spring Football scrimmages. Birds are chirping and life is gooood.

The society year is almost over. 😊 Our previous meetings this year were very interesting and successful. We have been very fortunate to have many great speakers. The March meeting was no different. It was an extremely interesting meeting on the topic of Building EQ by Hoy Bohanon, another ASHRAE Distinguished Lecturer. Thank you Hoy for a great presentation. Also, “kudos” to Kathleen Simpson who has put together a marvelous program selection this year packed full of Quality ASHRAE Distinguished Lecturers. Great Job!

The next meeting will be Thursday April 20th on the topic of “Using Analytics to Drive Building Performance”. This will be a lunch meeting followed by the ASHRAE Webinar on this topic. Please mark your calendar now and plan to attend this very exciting meeting. Bring a friend or coworker, and please RSVP to Joy Milliman asap, jmilliman@bandiflorida.com

This month I would like to highlight our Board of Governors. The four veteran members consist of Bill Malphus, Pat Graef, Woody Wilson, and Jason Hardman. These past presidents offer wisdom and guidance for our chapter. They are a key part of why our chapter is successful. Thank you.

Our next big EVENT will be the Fishing Tournament on April 29th 2017 at Pinchers in Cape Coral FL. Details are on our SWFL ASHRAE website. Also, sponsorships of the Fishing Tournament are also still available on our website. We have tried to make it easy to pay for the sponsorships, so credit cards are now accepted on our website via PayPal.

As previously announced, this year’s CRC, (Chapters Regional Conference), will be in Panama City, Panama. Our Region XII chapter in Panama has offered to host this event. Mr. Ross Montgomery, Bill Malphus and others are helping in this gigantic effort. This conference will take place August 9th thru 12th. It is an event that you don’t want to miss.

One last thing – Our Chapter is only as strong as its Members. I would encourage all of our Members to come to at least one meeting and bring someone who is not a Member. If you are not currently a Member, consider joining. For those potential new members under 30 years of age, ASHRAE makes it very easy to get started. Ask one of the officers to tell you about the Quick Start Program. New Affiliate Membership dues are only $52 for the first year. So we are making it EASY to become a member.

Thank you all for your support! Your volunteering efforts are what make our chapter ASHRAE strong!!!

---

**Upcoming Events**

- **Thursday, April 20th, 2017**
  - Monthly meeting & History Day
  - Fishing Tournament
  - April 29th at Pinchers!
Environmentalists and other supporters of the Clean Power Plan are expected to weigh in with similar arguments, saying they will defend it even if the current Administration chooses not to do so. A coalition of states supporting the Clean Power Plan, led by New York's Attorney General, has filed suit over the EPA's decision. Legal proceedings before the DC Circuit Court of Appeals were heard over six months ago and a decision is against pausing the litigation. After that, the court must decide what to do, but there is no timeline for making a decision.

Countries are now coordinated globally by the Earth Day Network. Click here to demonstrate support for environmental protection. Recognized since 1970, Earth Day events occur in more than 193 countries.

Earth Day is an annual event celebrated worldwide on April 22. Various events are held around the world to demonstrate support for environmental protection. Recognized since 1970, Earth Day events occur in more than 193 countries are now coordinated globally by the Earth Day Network. Click here for more information.

Membership Update – Ashley Fernandez
Hello ASHRAE Members:
Have you updated your BIO recently?
Please take a minute to update your information on the ASHRAE website, so that we can better serve you as our member and recognize your accomplishments! Good rule of thumb is to go through and update all of your information when you renew your membership. As always, if you ever have any questions or need assistance, contact your membership chair or ASHRAE membership.

New Member Announcements:
January:
- Gates Ivy (Student Member) - TBC
- Matt Nagy – B&I
- Dave Jaworski – JCI

March:
- Shana Farrell – B&I

April (as of 4/10/14):
- Andrew Bellstrom – B&I

Delayed DOE Rules Draw Lawsuits
A coalition of state attorneys general, as well as a coalition of several environmental groups, has filed suit against the Trump Administration over the Department of Energy's delays in issuing new energy efficiency standards for ceiling fans, freezers, boilers and other commercial and consumer goods. DOE has estimated these new rules would eliminate an overall 292 million tons of greenhouse gases and 1.2 million tons of methane over 30 years, among other pollutants. It would also save consumers and businesses nearly $24 billion in reduced electricity usage, according to agency estimates. DOE issued a publication notice of the final rules in December, with the final rules to follow in February or March. Those deadlines have now passed with no rules published. According to the groups filing suit, this violates the Energy Policy and Conservation Act and Administrative Procedures Act. The final rules for ceiling fan efficiency and certain federal residential building energy standards are set to take effect on Sept. 30, while test procedures associated with compressors, central air conditioners and walk-in coolers and freezers have been postponed until late June or early July.

Clean Power Plan Delay Draws Separate Lawsuit
A coalition of states supporting the Clean Power Plan, led by New York's Attorney General, has filed suit over the EPA's Clean Power Plan rule, saying they will defend it even if the current Administration chooses not to do so. Environmentalists and other supporters of the Clean Power Plan are expected to weigh in with similar arguments against pausing the litigation. After that, the court must decide what to do, but there is no timeline for making a decision. Legal proceedings before the DC Circuit Court of Appeals were heard over six months ago and a decision is expected at any time.

Earth Day Set for April 22

Legislatures in several states have completed their 2017 sessions and adjourned for the year. Below are some highlights from those sessions that have ended:

- Arkansas – lawmakers completed the bulk of the regular session workload, sending Governor Asa Hutchinson (R) a $5.5 billion state budget that increases state funding by $163 million.
- Georgia – legislators adjourned the regular session after approving a major $320 million infrastructure improvement plan. Legislators also approved a measure to temporarily strip references to climate change from school science standards.
- Kentucky – the General Assembly completed its session after approving a final flurry of bills and gubernatorial appointments, including bailing out the coal mining industry on paying rising costs from black lung claims. Governor Matt Bevin (R), who does not possess a pocket veto, has until May 10 to sign or veto legislation that reaches his desk.
- Idaho – legislators adjourned the regular session after approving a major $320 million infrastructure improvement plan. Legislators also approved a measure to temporarily strip references to climate change from school science standards.
- Maryland – lawmakers completed the 2017 regular session after approving a fracking ban, passing a bill empowering the attorney general to sue the federal government, passing tax credits for manufacturing companies that bring new jobs to high unemployment areas, a new grant program for environmental clean-up programs, and repealing five longstanding calls for a federal constitutional convention. Governor Larry Hogan (R), who does not possess a pocket veto, has until May 30 to sign or veto legislation that reaches his desk.
- Mississippi – lawmakers adjourned the regular session after approving several, across-the-board budget cuts. Legislators were unable to reach an agreement on infrastructure improvement funding, making a special session before July 1 very likely.
- New Mexico – legislators in New Mexico completed the regular session after reaching an agreement on a $6.1 billion budget that includes $350 million in tax increases and a measure that changes the gross receipts tax law. Governor Susana Martinez (R) has indicated she will veto the budget, making a subsequent special session very likely in the near future. Legislators also approved pursuing contracts for rooftop solar on state buildings to save energy costs over time with no up-front public investment. As the session ended, lawmakers were unable to reach an agreement increasing the amount of renewable energy supplied by investor-owned utilities and companies and extending tax credits for household rooftop solar energy systems.
- South Dakota – lawmakers completed the legislative session after sustaining several of Governor Dennis Daugaard’s (R) vetoes and passing other legislation.
- Utah – lawmakers adjourned the regular session after approving a $16.1 billion budget. As the session ended, lawmakers were unable to reach an agreement on a tax reform plan.
- Virginia – legislators concluded regular floor sessions after approving a $107 billion biennial budget. A subsequent veto session has been held with all the Governor's vetoes being sustained.
- West Virginia – lawmakers completed work on a state budget this past weekend, though Governor Jim Justice (D) is likely to veto it. Such a veto would make a special session likely to hash out the details.
- Wyoming – state legislators in Wyoming adjourned their regular session after approving a compromise bill to decrease education funding by $34 million starting July 1 and to require a thorough independent study of the state funding model. The funding issue may mean a special session in the future. Legislators also overrode much of the governor's line-item vetoes of the supplemental budget.
This webcast will feature industry experts who will define the importance of, and why we should strive for, better building operations through improved controls and analytics. Viewers will be able to describe key elements of controls and analytics for building operations, and identify steps in data gathering and management required to deploy analytics in building projects, including commissioning. This program will quantify how applying best practice controls improve building performance, and will recognize the value of analytics in building operations to achieve a reduced cost and increased performance.

Attend this FREE webcast program and you may be awarded 3 Professional Development Hours (PDHs), 3 American Institute of Architects Learning Units (LUs), or 3 GBCI Continuing Education Hours (CEs).

Opening remarks by:

Timothy Wentz, P.E., Fellow ASHRAE, HBDP
Mark Gallagher
Srinivas Katipamula, Ph.D., Fellow ASHRAE, FASME
Jim Meacham, P.E.
About Our Speakers

Tim Wentz, P.E., Fellow ASHRAE, HBDP
ASHRAE President | Lincoln, NE

As ASHRAE's president, Wentz chairs the Society's Board of Directors and Executive Committee. His theme, *Adapt Today to Shape Tomorrow*, is based on the goal in the Society's Strategic Plan to adapt. Wentz was awarded a Bachelor of Science in Mechanical Engineering and a Master’s in Business Administration from the University of Nebraska. Since entering academia, Wentz has received numerous awards and honors for his teaching and service to the HVAC industry. He is the recipient of an Exceptional Service Award, a Distinguished Service Award, the E.K. Campbell Award of Merit, a Region IX Regional Award of Merit, a Region IX Chapter President of the Year and a Regional Energy Award.

Mark Gallagher
Manager – Building Services, Global Markets | Armstrong Fluid Technology | Toronto, ON, Canada

Mark has spent the last 25 years in various roles spanning building systems and energy markets. In 2013 he joined Armstrong Fluid Technology to help introduce a service business to support the global base of Armstrong's control system customers. The first focus has been servicing customers with sophisticated chiller plant automation. Prior to joining Armstrong, Mark was Director of Operations, Canada for Direct Energy. He has held positions at both gas and power utilities promoting conservation to commercial and institutional markets. A member of ASHRAE, Mark holds an MBA from Schulich, York University, a Certificate in Marketing from the Wilfrid Laurier Institute and BA from York University.

Srinivas Katipamula, Ph.D., Fellow ASHRAE, FASME
Staff Scientist | Pacific Northwest National Laboratory | Richland, WA

Dr. Katipamula received his Ph.D. and M.S. in Mechanical Engineering from Texas A&M University. For over 25 years, Katipamula’s career has focused on improving the operating efficiency of commercial buildings. Prior to joining PNNL, he led the analytics group at the Enron Energy Services (EES). Previously, he also worked at Energy Systems Laboratory (ESL) at Texas A&M University, where he developed a number of measurement and verification techniques to measure energy savings from retrofits. He has extensive technical experience in the evaluation of advanced design concepts for HVAC systems, development of automated fault detection and diagnostic techniques, self-correcting controls, building and energy system simulations, and analysis and evaluation of new energy efficient technologies, development and use of analytical modeling techniques.

Jim Meacham, P.E.
Founding Principal | Altura | Corona Del Mar, CA

Jim is a founding principal of Altura, where he is responsible for managing a team which provides services for some of the world’s most energy efficient and iconic real estate projects. As a California registered mechanical engineer, Jim has directly managed scores of commissioning, retro-commissioning, energy auditing, on-site energy generation, renewable energy, energy management training, and modeling assignments. Leveraging an extensive background in controls systems, on-site energy production, field project implementation, and experience as an educator, he is highly skilled at working with project teams to implement leading edge, data-driven solutions that deliver meaningful and lasting results.
ASHRAE WEBCAST TENTATIVE PROGRAM

1:00 p.m. (EDT) Opening Remarks – Tim Wentz, ASHRAE President
   Introduction
   Jennifer Gladstone, Moderator

Srinivas Katipamula
   “Using Analytics to Drive Building Performance: Overview”

Roundtable Discussion

Jim Meacham
   “Driving Success in Analytics Starts with Controls”

Question and Answer Session

2:20 p.m. (EDT) Break

2:30 p.m. (EDT) Part II Introduction – Jennifer Gladstone, Moderator
   Mark Gallagher
   “Analytics, The Possible and The Pragmatic”

Roundtable Discussion

Case Studies

Question and Answer Session

Summary

3:55 p.m. (EDT) Closing – Jennifer Gladstone, Moderator
YETI RAFFLE
Enter for a chance to win one of these YETI Coolers:

BUY YOUR TICKET TODAY:
1 ticket for $10.00 / 3 tickets for $25.00

You can purchase your ticket @ http://www.swflashrae.org/events

or

Make checks payable to:
Southwest Florida ASHRAE
2701 Prince Street
Fort Myers, FL 33916
Attn: Shane Vaughan

YETI will be raffled off @ the ASHRAE Fishing Tournament
April 29th, 2017 @ 5991 Silver King Boulevard, Cape Coral, Florida 33914
You are all invited; Chapters, Sections and Guests of Florida, the Caribbean, and Central and South America.

This year’s CRC is special!! The Panama section of Region XII is hosting us, and DRC Daniel Rogers and Kathi Newton, CRC Chairman Ross D. Montgomery, Section President Reynel Castillo, his wife Marisol Linero, members of the Panama section, welcome all 2,843 members of ASHRAE Region XII to Panama, the Gateway thru the Americas. Join us for a fantastic Meeting and Venture on the Bridge to Knowledge and Technology, from the Bridge City of Central to South America and to the Atlantic and Pacific Oceans.

On-line Registration information:
http://region12.ashraeregions.org/?page=crc&lang=en

HOTEL “EL PANAMA”
www.elpanama.com/
August 9-12, 2017

Chapters: Florida West Coast, Central Florida, Miami, Jacksonville, Gold Coast, Spacecoast, Southwest Florida, Puerto Rico, Argentina, Chile, Brazil, Colombia, Ecuador, Paraguay.

Sections: Sarasota-Bradenton, Costa Rica, Panama, Dominican Republic, Peru.
Chapters: Florida West Coast, Central Florida, Miami, Jacksonville, Gold Coast, Spacecoast, Southwest Florida, Puerto Rico, Argentina, Chile, Brazil, Colombia, Ecuador, Paraguay.
Sections: Sarasota-Bradenton, Costa Rica, Panama, Dominican Republic, Peru.

CRC Region 12: 2017 Panama City, Panama
Director and Regional Chairman Daniel Rogers
Hotel El Panama
www.elpanama.com
August 9-12, 2017
(All Dress will be Casual unless stated otherwise in Agendas)
Registration Manager: Mr. Jason Hardman (jhardman@tombarrow.com)

Registration Form “ASHRAE Panama CRC 2017”

NAME: ____________________________  COMPANION/SPOUSE: ____________________________

CELL PHONE #: _____________________  EMAIL: ____________________________

ADDRESS: ____________________________

STREET  CITY  STATE (COUNTY, PROVINCE, AREA)  ZIP (POSTAL CODE)

PASSPORT #

WHAT DAY(s) ARE YOU ARRIVING AND DEPARTING PANAMA?

CHAPTER/SECTION: ________________  DEL./ALTERNATE: _____  MEMBER ___  STUDENT ___

ASHRAE POSITION(s) FOR FY 2016/2017: ____________________________

<table>
<thead>
<tr>
<th>Full Registration Packages</th>
<th>Up To June 1st, 2017</th>
<th>After June 1st, 2017</th>
<th>Total</th>
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<tr>
<td>Companion/Spouse**</td>
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<tr>
<td>Committee Chapter Chair***</td>
<td>______</td>
<td>______</td>
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<tr>
<td>Non-Member Full Registration*</td>
<td>______</td>
<td>______</td>
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</tr>
</tbody>
</table>

*Admission to ALL ASHRAE technical events (Tech Session): this is expected of Chapter Delegates, Alternates and Regional and Society Officers, and HQ staff. Chapter and section members are encouraged to participate for an enriched experience.
Chapters: Florida West Coast, Central Florida, Miami, Jacksonville, Gold Coast, Spacecoast, Southwest Florida, Puerto Rico, Argentina, Chile, Brazil, Colombia, Ecuador, Paraguay.

Sections: Sarasota-Bradenton, Costa Rica, Panama, Dominican Republic, Peru.

**Includes social activities: Welcome Meet/Greet Reception/transportation (Wednesday), Welcome Party (Thursday), Presidential and PAOE Awards Luncheon (Friday), Sponsor Recognition Dinner/event/transportation (Friday), and Regional Awards Luncheon (Saturday)

*** (Intended for Saturday workshop attendees only) Includes: Sponsor Recognition Dinner/event (Friday), Awards Luncheon (Saturday) and Workshops (Saturday)

**Important Note:** Tickets for events such as Wednesday thru Sunday “Spouse and guest” events, Daily Residential City Properties Tour, Café Duran tour, Tour of the New Panama Canal Colon Locks, Wednesday Golf, Saturday Casa Bruja tour, etc. are not in the packages, and need to be selected, reserved, and paid for separately.

**Notice:** We have a Hotel room block at Hotel El Panama named “ASHRAE Panama CRC 2017” (see information later in this form); it is important that you register at the hotel, using this room block name, so that you get the special room pricing and we get credit for our room block, which we have to guarantee.

**Individual Event Registration**

**Wednesday, Aug. 9, 2017**

<table>
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<th>Event Description</th>
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<tr>
<td>Golf (Green fees including cart/transportation to/from hotel)</td>
<td>$90.00</td>
<td>$110.00</td>
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<tr>
<td>Golf (Green fees including cart/(no transportation to/from hotel)</td>
<td>$70.00</td>
<td>$90.00</td>
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<tr>
<td>Golf Club rental (right__, left__)</td>
<td>$50.00</td>
<td>$50.00</td>
</tr>
<tr>
<td>Meet and Greet/Soft Opening</td>
<td>$75.00</td>
<td>$95.00</td>
</tr>
<tr>
<td>Spouse/guest Event 9AM-1PM (4-hours)</td>
<td>$50 per person/</td>
<td>$50 per person/</td>
</tr>
<tr>
<td>Real estate (residential city properties) tour by local experienced company “Panama equity”</td>
<td>$75 per two-some</td>
<td>$75 per two-some</td>
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**Thursday, Aug. 10, 2017**

Technical Program (PDH points will be available)

<table>
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<tr>
<td>½ Day 4 hour</td>
<td>$30/60</td>
<td>$40/70</td>
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<tr>
<td>Any Student Member</td>
<td>Free</td>
<td>Free</td>
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*Full Member Registration will have Full Access to all Technical Sessions (Free)*
**Panama Section Region XII**

*Chapters: Florida West Coast, Central Florida, Miami, Jacksonville, Gold Coast, Spacecoast, Southwest Florida, Puerto Rico, Argentina, Chile, Brazil, Colombia, Ecuador, Paraguay.*

*Sections: Sarasota-Bradenton, Costa Rica, Panama, Dominican Republic, Peru.*

**Up To**

**June 1st, 2017**

<table>
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<tr>
<th>YEA Event</th>
<th>GUESTS</th>
<th>FREE TO ALL YEA ELIGIBLE REGISTRANTS</th>
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<tr>
<td></td>
<td>$25 DONATION TO RP</td>
<td>$___________</td>
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| Welcome Party Reception | $55.00 | $65.00 | $___________ |

| Spouse/Guest Event | $50 PER PERSON/ | $50 PER PERSON/ |
| 9AM-1PM (4-hours) | $75 PER TWO-SOME | $75 PER TWO-SOME | $___________ |

*(Real estate (residential city properties) tour by local experienced company "Panama Equity")

| Spouse/Guest Event | $275 PER PERSON/ | $300 PER PERSON/ | $___________ |
| 9AM-3PM (6-hours) | *(Tour of the new Panama Canal "Colon Locks")

**Friday, August 11, 2017**

| Presidential/PAOE Awards Luncheon | $60.00 | $70.00 | $___________ |
| Sponsor Recognition | |
| Panama Canal Tour/Dinner | $175.00 | $225.00 | $___________ |

| Spouse/Guest Event | $50 PER PERSON/ | $50 PER PERSON/ |
| 9AM-1PM (4-hours) | $75 PER TWO-SOME | $75 PER TWO-SOME | $___________ |

*(Real estate (residential city properties) tour by local experienced company "Panama Equity")

| Spouse/Guest Event | $55 PER PERSON/ | $75 PER PERSON/ | $___________ |
| 9AM-11AM (1.5 hours) | "Café Duran" Coffee Drinking Tour |

**Saturday, August 12, 2017**

| Workshop Registration | $50.00 | $75.00 | $___________ |
| Regional Awards Luncheon | $60.00 | $70.00 | $___________ |

| Spouse/Guest Event | $50 PER PERSON/ | $50 PER PERSON/ |
| 9AM-1PM (4-hours) | $75 PER TWO-SOME | $75 PER TWO-SOME | $___________ |
Chapters: Florida West Coast, Central Florida, Miami, Jacksonville, Gold Coast, Spacecoast, Southwest Florida, Puerto Rico, Argentina, Chile, Brazil, Colombia, Ecuador, Paraguay.
Sections: Sarasota-Bradenton, Costa Rica, Panama, Dominican Republic, Peru.

<table>
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<th>UP TO JUNE 1ST, 2017</th>
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<tr>
<td>(REAL ESTATE (RESIDENTIAL CITY PROPERTIES) TOUR BY LOCAL EXPERIENCED COMPANY “PANAMA EQUITY”)</td>
<td>TOUR “CASA BRUJA” BEER BREWERY</td>
<td>$60 PER PERSON/ $75 PER PERSON/ $_____________</td>
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<tr>
<td></td>
<td>3:30P-5:30PM (2 HOURS)</td>
<td>(15 PERSONS MAX)</td>
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<tr>
<td>SUNDAY, AUGUST 13, 2017</td>
<td>Spouse/guest Event</td>
<td>$50 PER PERSON/ $50 PER PERSON/ $_____________</td>
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<tr>
<td></td>
<td>9AM-1PM (4-HOURS)</td>
<td>(REAL ESTATE (RESIDENTIAL CITY PROPERTIES) TOUR BY LOCAL EXPERIENCED COMPANY “PANAMA EQUITY”)</td>
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<tr>
<td></td>
<td>$75 PER TWO-SOME $75 PER TWO-SOME</td>
<td>$_____________</td>
</tr>
<tr>
<td>TOTAL ENCLOSED FROM ABOVE: $_____________</td>
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<td></td>
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</tbody>
</table>

- Membership Applications will be available for those willing to join that day
- Hospitality Suite is complimentary for all registrants
- $50 fee charged in addition to bank charges, for all returned checks or insufficient funds
- YEA events are complimentary for YEA eligible members (Contact Kathleen Simpson for details)
- Spouse and Companion events are currently being planned – more information to follow
  - Spouse event named “REAL ESTATE (RESIDENTIAL CITY PROPERTIES) TOUR” is being performed by a local experienced company “PANAMA EQUITY”, and is offered each day. The maximum group size is 4-persons, and will be organized as people pre-register. These company representatives are experienced in selling the local real estate as well as the government and ex-pat incentives offered to people locating to Panama. This is A MUST-do event.

MAKE CHECKS PAYABLE TO “ASHRAE REGION 12”
MAIL TO: REGION 12 WEBSITE: http://region12.ashraeregions.org/?page=crc&lang=en#
c/o FPL
1813 Lee Street
Ft. Myers FLA. 33901
ATTN; ROBERT RISLEY

NOTE; PAYMENT BY CHECK OR CASH (US DOLLAR) IS PREFERRED.
A PayPal account can be used for a single final web based payment; we will need your registration form to be sent to Jason Hardman or Robert Risley by email. (Log on to the Region 12 Basecamp for Forms)

For further information, please contact Mr. Jason Hardman (jhardman@tombarrow.com)

Treasurer: Robert Risley (Rob.Risley@fpl.com)

Hotel rates good one week before and after August 9-12, 2017, using the “ASHRAE Panama CRC 2017” block.

Making Reservations

Notice: We have a hotel room block at Hotel El Panama named “ASHRAE Panama CRC 2017”; it is important that you register at the hotel, using this room block name, so that you get the special room pricing and we get credit for our room block, which we have to guarantee.

www.elpanama.com

Hotel El Panama, Panama City Panama

If calling in a reservation, please ask for the “ASHRAE Panama CRC 2017” rate. Use the hotel form below. Discounted hotel rates will be available for 5 days before and after the event provided rooms are available. The CRC Committee encourages booking early. Reservation questions can be asked at grupos@elpanama.com

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Single/Double Occupancy</th>
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<tbody>
<tr>
<td>Two Doubles or One King</td>
<td>$80.00 + 10% tax</td>
</tr>
<tr>
<td>Junior Suite</td>
<td>$178.20 + 10% tax</td>
</tr>
</tbody>
</table>

*Note:
- When booking online or by phone, your credit card information is used to guarantee the reservation.
- Priced rooms above are based on availability. The block may sell out, so please book your rooms as soon as possible.
Chapters: Florida West Coast, Central Florida, Miami, Jacksonville, Gold Coast, Spacecoast, Southwest Florida, Puerto Rico, Argentina, Chile, Brazil, Colombia, Ecuador, Paraguay.
Sections: Sarasota-Bradenton, Costa Rica, Panama, Dominican Republic, Peru.

-Rooms are single or double occupancy; breakfast, and room internet fees are included in the room costs ABOVE.

ASHRAE Panama CRC 2017 Hotel El Panamá, Ciudad de Panamá
Del 08 al 12 de Agosto 2017 (August 08 to August 12, 2017)

Favor reservar la(s) siguientes habitaciones (Please reserve the following room(s))

<table>
<thead>
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<th>Room Type</th>
<th>Price (Nightly Cost)</th>
<th>Inclusive: Breakfast and Internet WIFI</th>
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<tr>
<td>Room type single (1 person)</td>
<td>$80.00+ 10% de impuestos</td>
<td>☐ PRECIO POR NOCHE</td>
</tr>
<tr>
<td>Room type double (2 persons)</td>
<td>$80.00+ 10% de impuestos</td>
<td>☐ PRECIO POR NOCHE</td>
</tr>
<tr>
<td>Room type Cabin (Double 2 persons)</td>
<td>$80.00+ 10% de impuestos</td>
<td>☐ PRECIO POR NOCHE</td>
</tr>
<tr>
<td>Room type Jr Suite (Double 2 persons)</td>
<td>$178.20+ 10% de impuestos</td>
<td>☐ PRECIO POR NOCHE</td>
</tr>
</tbody>
</table>

Fecha de Llegada (Arrival date) ___________ Fecha de Salida (Departure date) ___________

Incluye Desayuno Buffet e internet WIFI (Includes breakfast and internet)

Nombre (Name) ____________________________________________
Dirección (Address) ________________________________________
País (Country) _____________________________ E-mail ____________________________
Tel ____________________________ Fax ____________________________
**Favor garantizar la reservación con la siguiente tarjeta de crédito (Please guarantee reservation with the following credit card)**

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<th>Amex</th>
<th>Visa</th>
<th>Master Card</th>
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<th>No.</th>
<th>Fecha expiración (Expiration date)</th>
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<th>Firma (Signature)</th>
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**Información de Vuelos (Flights Information)**

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<th>Aerolínea (Airline)</th>
<th>Fecha/Hora llegada (Arrival date/Hour)</th>
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<th>Vuelo de salida/Hora (Departure date/Hour)</th>
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Enviar reservaciones directamente a (Please send this information to)
Hotel El Panamá, Vía España Edificio No.111, Ciudad de Panamá
Teléfonos. (507) 215-9443 – 44 - 45, Enviar solicitud a: grupos@elpanama.com

There is a Tour Desk located at the Hotel outside the lobby; It can be accessed for private tours using the following methods: [www.arcoirispanama.com](http://www.arcoirispanama.com)
Telephone +507-6678-1720  Guestservice2@arcoirispanama.com