



# HE EA MAKAME

September 06, 2017

P.O. Box 3916, Honolulu HI 96812-3916  
Ashraehawaiichapter.info

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## President's Message

*By Kevin Luoma, P.E.*

Aloha,

It is an honor to serve as your 2017-2018 Chapter's President and I want to thank outgoing President Dean Borges in the wonderful job he did as Chapter President last year. I learned a lot from him while I was President-Elect and only hope to do as well as he did.

I feel we have a great group of chapter officers and committee chairs this year that will do an outstanding job providing for our ASHRAE community. To see all the officers and committee chairs go to the "Committees" tab on the ASHRAE Hawai'i Chapter website. Together we will help achieve ASHRAE Society President Bjarne Olesen's theme for this year titled "Extending our Community". His three main points of the theme being: extend our global community; extend our technological horizons; and extend our value to members.

Many of you are aware of Hawai'i's Clean Energy Initiative that has a goal of achieving the nation's first-ever 100% renewable portfolio standards by the year 2045. That is a very lofty goal but without setting lofty goals, great things will never be achieved. Our ASHRAE community will play a vital role in seeing the clean energy initiative come to fruition and I am glad to be a part of this important task. With the recent "King Tide" events here in Hawai'i, trying to slow the effects of climate change is getting more important every day.

If you would like to get more involved with Hawai'i ASHRAE Chapter and help push Hawai'i to a more sustainable future now is the time. We are always looking for people who are willing to provide support to our chapter and who are looking to make a difference in our community.

Look forward to seeing everyone at upcoming meetings!



*Chapter President  
Kevin Luoma, P.E.  
WSP Hawaii*

## September Chapter Meeting

Date: Thursday 14 September 2017

Where: The Plaza Club, 900 Fort St. Mall, 20<sup>th</sup> Floor,

[www.theplazaclub.com](http://www.theplazaclub.com)

Registration: Starts at 5:30 pm. Contact Justin Choriki at [jhchoriki@burnsmcd.com](mailto:jhchoriki@burnsmcd.com) for additional info.

Technical Session: 6:00 pm

Dinner: Approx. 7:00 pm

Main Program: 7:30 pm

Adjournment: Approx. 9:00 pm

Cost: \$45 per ASHRAE member; \$50 per guest; \$55 at the door.

Payment via credit card: <https://ashraehawaiichapter.info>

Otherwise, make check payable to ASHRAE Hawaii Chapter.



## Technical Session – Trane Wireless Controls: Design Considerations and Implementation



*RJ Ritter  
Trane*

This presentation will cover Trane's Air-Fi Wireless Controls. Topics included in this presentation consist of: Hardware, Software, Protocol, Security, Reliability, Redundancy, and Installation Examples.

*RJ Ritter: RJ has been with Trane Honolulu since 1992 focused on developing and growing Trane Building Automation Systems. He was the Hawaii Area Contracting Manager until 2016, transitioned into the Systems Sales Manager role in January 2017 and is now responsible for equipment and controls sales in the Honolulu office.*

*Joe Palaszynski: Joe is the current Hawaii Area contracting manager and has been with Trane for 4 years. Prior to that he has spent the last 10 years being a Test & Balance technician, controls technician and project manager for controls projects.*



*Joe Palaszynski  
Trane*

## Main Presentation - The State of Hawaii's 2015 International Energy Efficiency Code

Mr. Wiig will very briefly highlight the near-revolutionary changes to the residential portion of the 2015 International Energy Conservation Code (IECC) compared to the extant 2006 IECC. He will then launch into the 2015 IECC envelope requirements and how they substantially affect the HVAC and lighting components. He will then delve into the particulars of the HVAC section including the "one more thing" provision. Finally, Mr. Wiig will paint a picture of compliance with the IECC, based on a recent study by the Hawaii Energy Office consultant, Mr. Erik Kolderup, PE. While compliance is generally good, in some spots excellent, a glaring exception is commissioning. Mr. Wiig hopes to generate discussion on that issue.

Presenter: Howard C. Wiig, State of Hawaii - Energy Analyst



*Howard C. Wiig  
State of Hawaii  
Energy Analyst*

*Howard Wiig is an Energy Analyst for the State of Hawai'i. In this capacity, he is project manager for building energy codes, enabling and facilitating Hawai'i's transition to a clean energy economy by reducing the energy consumed in new and renovated homes and commercial buildings. He represents the State as Chair of the Energy Subcommittee of the Hawai'i Building Code Council, and sits on the Starlight Reserve Committee to ensure that policies are developed to maximize the most efficient lighting for buildings, residences, and outdoor lighting systems.*

*Wiig has over thirty years' experience in the State Energy Office. He is the State of Hawai'i representative to the International Code Council (ICC) and has served as a voting member at national ICC hearings on the 2009, 2012, 2015 and 2018 national energy codes and has assisted with the creation a tropical climate zone for the ICC. Mr. Wiig also sits on the Administration Task Force for the national 2018 Green Building Standard and sits on the Hawaii Boards of Hawaii Correctional Industries and Engineers and Architects of Hawaii, is Hawaii President of the Illuminating Engineering Society and Dark Skies International and hosts a bi-weekly program, "Code Green" for Think Tech Hawaii.*

*Wiig has spoken at national Energy Codes Workshops, South Pacific Energy Conferences in Guam and Saipan and served as energy code advisor to the U.S. Virgin Islands and Caribbean nations. He is the author of numerous articles on energy codes, lighting efficiencies, cool roofs and marine debris.*

## Chapter Officers

<p><b>Chapter Officers for Society Year 2017-2018</b></p> <ul style="list-style-type: none"> <li>• President: Kevin Luoma, P.E</li> <li>• President Elect: Mofazzal Mir, P.E.</li> <li>• Vice President: Willie Diguc, P.E.</li> <li>• Secretary: Samantha Nakamura, P.E.</li> <li>• Treasurer: Matthew Tio</li> </ul>	<p><b>Committee Chairs</b></p> <ul style="list-style-type: none"> <li>• Attendance and Reception Chair: Justin Choriki</li> <li>• Energy Awards Chair: Min Zhong, P.E.</li> <li>• Technology Awards: Kelsey Koshi</li> <li>• Grassroots Government Activities Chair: Tony Rasabout</li> <li>• Historian Chair: Donna Kishi</li> <li>• Membership Promotion Chair: Lori Arakawa, P.E.</li> <li>• Newsletter Editor Chair: Willie Diguc, P.E.</li> <li>• Chapter Programs Chairs: Andrew Crossland &amp; Dan Mestas</li> <li>• Refrigeration Chair: Jeanessa Slaughter</li> <li>• Research Promotion Chair: Dave Drapalik</li> <li>• Student Activities Chair: Diamond Pedro &amp; Jack Mullen</li> <li>• Technical Seminar Chair: Josh Jackson</li> <li>• Technology Transfer Chair: Mofazzal Mir, P.E.</li> <li>• Webmaster Chair: David Lebowitz</li> <li>• Chapter Electronic Communications Chair: Kalani Castro</li> <li>• Young Engineers of ASHRAE Chair: Valerie Mencias</li> <li>• Sustainable Activities Chair: Joseph Palazynski</li> </ul>
<p><b>Chapter Board of Governors</b></p> <ul style="list-style-type: none"> <li>• Dean Borges, P.E. (Immediate Past President)</li> <li>• Josh Jackson</li> <li>• Valerie Mencias</li> <li>• Lori Arakawa, P.E.</li> </ul>	



*Kevin Luoma, P.E.  
WSP Hawaii*



*Mofazzal Mir, P.E.  
InSynergy  
Engineering*



*Willie Diguc, P.E.  
Oahu AC*



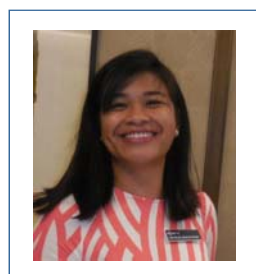
*Samantha Nakamura, P.E.  
WSP Hawaii*



*Matthew Tio  
DMG Hawaii*



*Dean Borges, P.E.  
InSynergy Engineering*



*Valerie Mencias  
Norman S. Wright*



*Lori Arakawa, P.E.  
U.S. Army Corps of  
Engineers*

## Chapter Committee Chairs



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*Donna Kishi  
Norman S. Wright*



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*Tony Rasabout  
Coffman Engineers*



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*Andrew Crossland,  
P.E.  
Crossland  
Engineering*



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*Joe Palasynski  
Trane*



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*Diamond Pedro  
ACS Supply Corp.*



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*Kelsey Koshi  
ACS Supply Corp.*



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*David Lebowitz  
Oahu AC*



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*Jack Mullen  
Trane*



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*Dave Drapalik  
Air Treatment Corp.*

## ASHRAE E-Learning & Training Announcement

# ASHRAE Learning Institute 2017 Online Course Series

### 2 WAYS TO REGISTER

**Internet:** [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses)

**Phone:** Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

One-part course (3 hours) **\$284 (\$219 ASHRAE Member)** – -- -- Two-part course (6 hours) **\$484 (\$359 ASHRAE Member)**

**NEW! Fundamental Requirements of Standard 62.1-2016**  
Wednesday, September 6, 2017 – 1:00 p.m. to 4:00 p.m.

**Designing High-Performance Healthcare HVAC Systems**  
Tuesday, September 19, 2017 – 1:00 p.m. to 4:00 p.m.

**Laboratory Design: The Basics and Beyond**  
Tuesday, October 10, 2017 – 1:00 p.m. to 4:00 p.m.

**Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems**  
Monday, October 16, 2017 – 1:00 p.m. to 4:00 p.m.

**NEW! Complying with Standard 90.1-2016**  
Part I: Wednesday, November 1, 2017 – 1:00 p.m. to 4:00 p.m.  
Part II: Tuesday, November 7, 2017 – 1:00 p.m. to 4:00 p.m.

**NEW! Variable Refrigerant Flow System: Design & Application**  
Wednesday, November 29, 2017 – 1:00 p.m. to 4:00 p.m.

**NEW! New ASHRAE-Classified Refrigerants to Meet Society's Changing Needs**  
Tuesday, December 5, 2017 – 1:00 p.m. to 4:00 p.m.

## ASHRAE HVAC Design & Operation Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Columbus • Denver • Dubai

### **HVAC Design: Level I – Essentials** - Registration is \$1,264 (\$1,009 ASHRAE Member)

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

### **HVAC Design: Level II – Applications** - Registration is \$854 (\$699 ASHRAE Member)

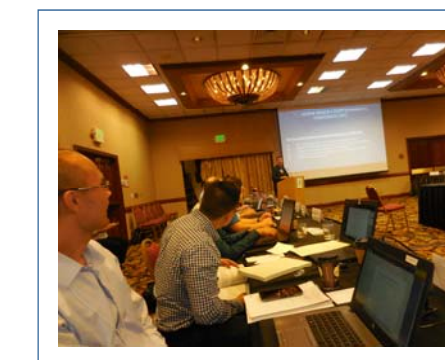
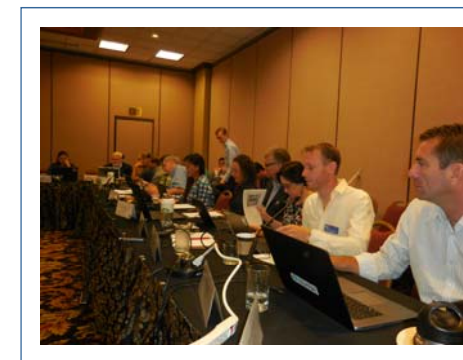
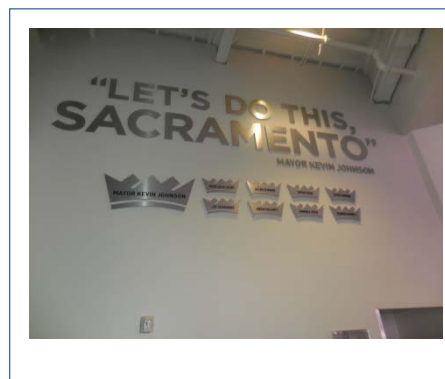
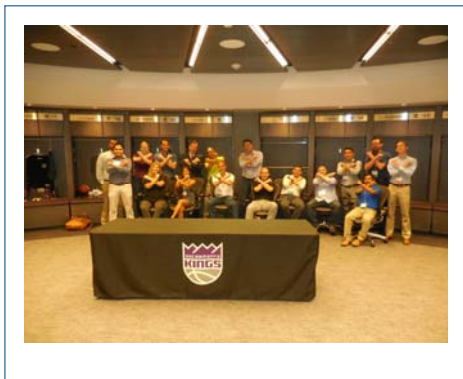
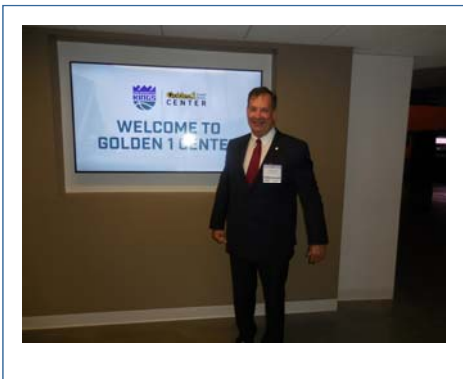
*HVAC Design: Level II — Applications* provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit [www.ashrae.org/hvactraining](http://www.ashrae.org/hvactraining) to register and learn how your Chapter can earn PAOE points.

Contact Karen Murray ([kmurray@ashrae.org](mailto:kmurray@ashrae.org)) to discuss scheduling ASHRAE HVAC Training in your Chapter area.



# Pictures from Region X CRC in Sacramento, CA



## GGAC Committee Chair Report

By Tony Rasabout

### U.S. Court of Appeals for the D.C. Circuit Sends HFC Rule Back to EPA

On August 8, the U.S. Court of Appeals for the D.C. Circuit sent back to EPA a 2015 Rule that would have required manufacturers to replace hydrofluorocarbons (HFCs). The court found that EPA exceeded its authority under Section 612 of the Clean Air Act with a rule that eliminated some uses for HFCs and approved certain replacements. The court decision focused on whether EPA's Significant New Alternatives Program (SNAP) allows EPA to change its list of substitutes for ozone-depleting substances if the substance it seeks to replace is non-ozone-depleting, as is the case with HFCs.

Much uncertainty still remains as to what this court decision will ultimately mean. The court's ruling could be appealed. EPA could also potentially take action on HFCs under another of its authorities. Another possibility is that Congress could grant EPA specific authority to regulate HFCs.

Regardless, the court decision does not change the importance of the research work that ASHRAE is conducting on mildly flammable refrigerants. The research, which will facilitate and accelerate the safe use of these refrigerants, still remains relevant and is important to the industry globally.

(Source: <https://www.ashrae.org/government-affairs/government-affairs-updates>)

### ASHRAE Seeks Public Comment on Guideline to Minimize Legionellosis in Water Building Systems

-- Those interested in commenting on the guideline may do so from July 28 - Sept. 11, 2017

ATLANTA - ASHRAE is seeking public comment on [Guideline 12-2000, Minimizing the Risk of Legionellosis Associated with Building Water Systems](#), which is now open for a 45-day public review until Sept. 11. Those interested in reviewing and commenting on the guideline can do so at [www.ashrae.org/publicreviews](http://www.ashrae.org/publicreviews).

Developed by the ASHRAE Standing Standard Project Committee (SSPC) 188, ASHRAE Guideline 12 is intended for use by building owners of human-occupied buildings and those involved in the design, construction, installation, commissioning, management, operation, maintenance and service of centralized building water systems and components.

The guideline will provide essential information and guidance to assist in the control of Legionellosis associated with building water systems. It also gives users direction in implementing [ASHRAE Standard 188: Legionellosis: Risk Management for Building Water Systems](#)

"Public input is a vital step in the development of ASHRAE guidelines," says Michael Patton, member of ASHRAE SSPC 188. "Our goal with Guideline 12 is to have a strong companion document that works in tandem with ASHRAE Standard 188. We invite all interested and affected parties to review and comment on Guideline 12 during its public review period. Doing so will help ASHRAE and SSPC 188 create better resources that help building owners minimize the risk of Legionellosis."

The CDC estimates there are between 8,000 and 18,000 cases of Legionnaires' disease in the United States each year - and more than 10 percent of these cases are fatal. Most of those cases are the result of exposure to Legionella associated with building water systems.



## GGAC Committee Chair Report (Continued)

ASHRAE Guideline 12 is a continuous maintenance guideline with updated versions planned for publication every three years. To make a comment or learn more, please visit [www.ashrae.org/publicreviews](http://www.ashrae.org/publicreviews), and to learn more about ASHRAE Standard 188, please visit [www.ashrae.org/Standard188](http://www.ashrae.org/Standard188).

Engineered Systems Magazine Article

<http://www.esmagazine.com/articles/98421-ashrae-seeks-public-comment-on-legionellosis-guideline>

## Job Posting

### **Carrier Hawaii**

Commercial Applied Sales Engineer

Motivated, disciplined, good attitude, passionate for learning. 3-4 years HVAC experience, B.S. degree in Engineering. Job requires assisting customers with design/specs, equipment selections, engineering software, and bidding projects. Must be willing to be trained: in-depth factory training and personal development. Requires mainland travels. Salary commensurate with experience plus sales incentive. Excellent benefits.

Email resume to [ckuroiwa@carrierhawaii.com](mailto:ckuroiwa@carrierhawaii.com) or fax to 682-2828 Attn: Cheryl Kuroiwa.

## Message from the Newsletter Editor

*By Willie Diguc, P.E.*

It is my great pleasure to serve as your Newsletter Editor and Vice President this society year. I will do my best to publish the Newsletter in a timely manner every month. After the nice and well rested break, I look forward to seeing everyone again at the monthly membership meetings.

If you have anything ASHRAE related that you would like posted in our monthly newsletter, please send your email to [admin@ashraehawaiichapter.info](mailto:admin@ashraehawaiichapter.info). All submitted material is subject to approval.

Mahalo and A hui hou!

### ASHRAE Hawaii Chapter

P.O. Box 3916  
Honolulu, HI 96812-3916

Chapter Website:  
[www.ashraehawaiichapter.info](http://www.ashraehawaiichapter.info)

ASHRAE Main Website:  
[www.ashrae.org](http://www.ashrae.org)

E-mail:  
[admin@ashraehawaiichapter.info](mailto:admin@ashraehawaiichapter.info)



## AGENDA - BOG Meeting Minutes

**Date:** 7/13/2017 (Thursday)

**Time:** 12:30 pm to 2 pm

**Location:** Trane Conference Room, 2969 Mapunapuna Place, Suite 107, Honolulu, HI 96819

**Attendees:** Kevin Luoma, Mofazzal Mir, Willie Diguc, Samantha Nakamura, Matthew Tio, Dean Borges, Joe Palaszynski, Tony Rasabout, Jeanessa Slaughter, Kelsey Koshi, Donna Kishi, Dave Drapalik, Jack Mullen, Diamond Pedro, David Lebowitz, Justin Choriki, Valerie Mencias, Dan Mestas, Andrew Crossland

**Call to Order:** 1:15 pm by President Kevin Luoma

### 1. Report Long Beach Society Annual Meeting

- Dean attended, there were many good events

### 2. Treasurer's Report – Matt Tio

- \$19,440.58 in the main account, \$501.00 in events account, \$19,679.00 in student account. Signature cards for new officers (Kevin, Mofazzal, Willie, Matt and Samantha) were signed. Matt to return form to BOH.
- Audit committee – motion by Matt Tio to create audit committee led by KelseyKoshi David Lebowitz and Diamond Pedro. Seconded by Andrew Crossland Motion was carried and approved
- Student Branch account –Account will be reviewed for change in approved signers. Matt to obtain new signature card.  
Change in faculty advisor will need to be considered. Further discussion at the next BOG meeting needed.

### 3. MCO – Manual Chapter for Operations (ASHRAE Bible)

- Basecamp – Chapter documents can no longer be shared using Google Drive. David and Dean will work on transferring our files to Basecamp.

### 4. Motions for CRC.

- Kevin to draft 3 motions
  - a. ASHRAE studies on cooling load methodologies
  - b. Presentation of research to local chapters
  - c. Monetary support for chapters who bear higher travel cost burden

### 5. Report for CRC.

- Report has been completed and condensed – will be made available for download in Basecamp.

### 6. CRC

**Website for Society reimbursement:** <http://transportationvoucher.ashrae.org/>

- The representatives holding the positions below will be reimbursed for travel by the region. Chapter will cover registration and hotel.
  - a. **Chapter Delegate** – Kevin attending
  - b. **Chapter Alternate**– Mofazzal attending
  - c. **Chapter Technology Transfer Chair Mofazzal Attending**
  - d. **Chapter Student Activities Chair (no substitutes)** – Jack attending
  - e. **Chapter Grassroots Government Activities Chair (no substitutes)** – Tony attending
- Officers/committee chairs possibly attending: Matt, Valerie and Kalani
- Donna attending as Historian. Will cover her own expenses

### 7. ASHRAE Covered Training Travel (chapter to cover hotel)

- **Chapter Research Promotion Chair (no substitutes) is reimbursed by Society for Research Promotion Centralized Training.** – Dave attending

- **Chapter Membership Promotion Chairs (no substitutes) are reimbursed by Society for Membership Promotion Centralized Training.** – Lori attending
8. **Committee Reports:**
- **Newsletter – deadline for articles to Willie.**
    - a. Submit articles by Aug. 25<sup>th</sup> for September newsletter, then 2nd to last Friday of every month for all other newsletters.
  - **Chapter Programs – Andy / Dan.**
    - a. Andy to send out survey to members to poll for which topics have greater interest. Suggested topics: acoustics (January), wireless controls by Trane, facilities engineer round table (contact Steve Sullivan), Polypropylene piping.
    - b. DL's should be contacted early in the year
  - **Sustainability**  
No report'
  - **Research Promotion – Dave**
    - a. Golf tournament date is set – May 4 at Pearl Country Club. Deposit has been paid.
    - b. Looking for committee members to help plan Golf Tourn
    - c. Funding is available for any research projects
  - **Reviewed PAOE**
    - a. Tabled for next meeting due to time constraints
  - **YEA – Valerie**
    - a. Goal to have 1 event this year with good turn out (emphasis on networking)
    - b. Sheetmetal Contractors Association willing to sponsor an event
  - **Student Activities – Diamond / Jack Mullen, Contacts for HCC (Steven Chow) and UH (?), UH Website**
    - a. Need to find a replacement contact for UH Student Branch
    - b. Scholarship fund: \$30k is needed to start a scholarship fund, Tech seminar raised ~\$5k toward beginning the scholarship fund.
  - **Refrigeration – Jeanessa**
    - a. Potential events: Tour of the Ward Village ice rink at IBM building, Waiea Tower well water heat rejection plant
  - **Webmaster/ Chapter Electronic Communications Chair –**
  - **Issues David/Kalani?**
    - a. David to set up Basecamp account
  - **Technology Awards –Kelsey – Technology Portal items**
    - a. In order to apply for the Dan Mills Award, CTTC Chair/VP has to attend CRC
    - b. WSP to submit a project this year
  - **CTTC, Mofazzal**
    - a. Committee chairs under Mofazzal will have monthly meetings
  - **GGAC, Tony**
    - a. Goals for this year include pushing for the IECC 2012 to be adopted by counties (Andy to provide Howard Wiig contact info), and encourage DOH to consider more thorough review of hospitals to hold designers more accountable (re: ASHRAE Standard 170).
  - **Membership Promotion – Lori**
    - a. Budget: MP requests \$400 for events this year
    - b. MP Nights: September and February
  - **Attendance and Reception –**
    - a. Items will be transferred after the meeting from Valerie to new AR chair



- **Technical Seminar and Product Show – Date and place will need to be chosen as soon as possible**
  - a. Event will be half day this year. Josh will be reaching out for idea suggestions.
  - b. As clarified by Historian Donna, product show is usually done every other year, spread out our requests for donations/support to the chapter. If vendors/ reps are interested participating in a product show event (such as pau hana product show), this can be organized.
- **Historian – Donna**  
**No report**

**9. PAOE Points**

- Tabled for next meeting, committee chairs to review which points pertain to them

**10. New Items**

- N/A

**Adjourned:** 1:55 pm

**Next BOG Meeting:** Thursday, September 14 before Chapter Meeting(?)

Respectfully submitted,

Samantha Nakamura, Secretary 2017-18