

# HE EA MAKAMAE



April 11, 2018

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

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## President's Message

*By Kevin Luoma, P.E.*

Aloha members of the Hawaii ASHRAE community.

I would like to remind everyone to sign up for the annual golf outing this year on May 4<sup>th</sup>. There will be numerous prizes for the participants. Our research promotion chair for this year who was originally coordinating this moved to the mainland and we were extremely fortunate to have Joshua McDonough of WSP and Katie Thul of Air Treatment step up and lead the coordination effort. The golf out is the most important event of the ASHRAE year from a fundraising standpoint so it was a blessing that Joshua and Katie volunteered.

Thank you all for attending the Technical Seminar and for Josh Jackson and Katie Thul for coordinating it. It was a great success with approximately 65 people in attendance at the Ala Moana Hotel. Having the seminar only a half day could have helped with the attendance along with having great sponsors like Hawaii Energy. Hawaii Energy is doing great things to help reduce the dependence on fossil fuels by Hawaii. For all your projects check with them to see if they can help on the cost of construction with their rebate program.

We had some great speakers at the technical seminar with Dr. Manfred Zapka, Addison Bonner and Dr. Kishor Khankari. Dr. Zapka gave some great insight into building wellness stressing the fact that employees are by far the largest cost of any company so their wellness should be the number one priority of any company. Mr. Bonner discussed some of the items all companies should be aware of to protect themselves with any contract. One minor item could end up costing your company a great deal. The main speaker Dr. Khankari gave a very engaging presentation on air quality in hospitals. His research will change the way air is distributed within operating rooms.

Look forward to seeing everyone at the April meeting on the 12<sup>th</sup> and then the annual golf outing. The main presenter for the April meeting is ASHRAE Distinguished Lecturer Raymond Patenaude who will be speaking about mold prevention. This topic should be a must for anyone in the construction industry in Hawaii.

Mahalo Nui Loa,  
Kevin Luoma, PE  
2017-2018 Hawaii ASHRAE Chapter President



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

## April Chapter Meeting

Date: Thursday 12 April 2018

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. 8:30 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.

Next Chapter Meeting: Thursday 10 May 2018 at The Plaza Club

Golf Tournament: Friday 4 May 2018 at Pearl Country Club



## Technical Session – Innovative, Self-Contained HVAC Options for Hotels



*Mario Martucci  
Sales Manager  
Friedrich Air  
Conditioning*

This presentation highlights the growing demand to provide improved IAQ (meeting ASHRAE 62.1-2013) in the lodging and specialty market sector, along with two innovative new solutions from Friedrich Air Conditioning. The proper introduction of fresh conditioned outdoor air results in reduced humidity, air pathogens, and allergens while improving guest comfort. While several solutions are available to provide make-up air, many consist of complex and expensive total building systems. Friedrich has brought to market two innovative, self-contained (FreshAire PTAC and VRP) HVAC options, offering hoteliers a complete room-by-room solution addressing cooling, heating, humidity control and IAQ - all without the compromise of cost.

### **About the Presenters:**

Mario Martucci is a member of the Lodging and Specialty Markets Sales team at Friedrich Air Conditioning. As Rep Sales Manager, Mario works with our Plan and Spec Reps and assists them in providing the best comfort solutions for new construction and replacement properties. He has over 15 years of progressive sales and operation experience. Mario lives in San Antonio, Texas with his wife, Brenda, and their son, Giovanni.

## Main Presentation – Fundamentals of Building Envelopes and Humidity Control in Hot & Humid Climates



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*Raymond E.  
Patenaude, PE,  
CPMP, CIAQP,  
CEM*

*Managing Partner*

*Holmes  
Engineering Group,  
LLC.*

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### Presentation topic(s):

Designing buildings in hot and humid areas 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.

As an added bonus, Mr. Patenaude will also be presenting some info on new methods and equipment to control humidity in buildings that he has been researching via a US Army project.

### About the Presenter:

Raymond E. Patenaude, PE, CPMP, CIAQP, CEM, Managing Partner of the Holmes Engineering Group LLC, is a registered Florida Professional Engineer specializing in forensic engineering of HVAC systems, moisture intrusion into buildings, and microbial contamination of building environments. He has been a Consulting and Forensic Engineer for over thirty-six years involved with the analysis, design and construction of building systems. As a recognized expert in his field, Mr. Patenaude, provides professional consultation and forensic investigation in building science including: 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.

Mr. Patenaude is a former ASHRAE Vice President and current Distinguished Lecturer. He currently serves the Society as a member of TC 1.12, Moisture Management in Buildings, Past 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 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 Florida Engineering Society, Indoor Air Quality Association, and the Chairman of the Board of the Certified Indoor Air Quality Professionals.

## 2017-2018 Chapter Program

Speaker	Topic
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### September 14th (Membership Promotion)

Do's & Don'ts	RJ Ritter & Joe Palaszynski Trane	Wireless Controls
Main Presentation	Howard Wiig Hawaii State Energy Office	2015 IECC

### October 26th (Research Promotion)

Do's & Don'ts	Charlie Waddell Global Plasma Solutions	Needlepoint Ionization for IAQ
Main Presentation	Bjarne Olesen ASHRAE President	2017-18 Society Year Theme

### November 16th

Do's & Don'ts	Joseph Welsh Leonard Valve	Electronic Mixing Valves
Main Presentation	Brad Rockwell Kauai Island Utility Cooperative (KIUC)	Solar Array Battery Storage

### December 7<sup>th</sup>

Christmas Party & Past Presidents Night @ Honolulu Country Club
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### January 11th

Do's & Don'ts	Scott Hockin PVi Industries	AquaPLEX Water Heaters
Main Presentation	Kristina Sells WSP Hawaii	Acoustics

### February 8th (Membership Promotion)

Do's & Don'ts	TBD	TBD
Main Presentation	Danielle Wright North American Sustainable Refrigeration Council	Natural Refrigerants

### March 7th (Technical Seminar)

Theme: "Building Wellness" @ Ala Moana Hotel
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### April 12th (Research Promotion)

Do's & Don'ts	TBD	TBD
Main Presentation	Raymond Patenaude ASHRAE Distinguished Lecturer	Fundamentals of Building Envelopes and Humidity Control in Hot & Humid Climates

### May 10th

Do's & Don'ts	UH Manoa Students	2018 ASHRAE Student Design Competition
Main Presentation	Roundtable	Facilities Engineers

## 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: William “Bill” Lee, P.E.</li> <li>• Newsletter Editor Chair: Willie Diguc, P.E.</li> <li>• Chapter Programs Co-Chairs: Andrew Crossland &amp; Dan Mestas</li> <li>• Refrigeration Chair: Jeanessa Slaughter</li> <li>• Research Promotion Chair: Dave Drapalik</li> <li>• Student Activities Co-Chairs: 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 Co-Chair: Joshua McDonough &amp; Tyson Quisano</li> <li>• Sustainable Activities Chair: Joseph Palazynski</li> </ul>
<p><b>Chapter Board of Governors</b></p> <ul style="list-style-type: none"> <li>• Josh Jackson</li> <li>• William “Bill” Lee, P.E.</li> <li>• David Lebowitz</li> </ul>	



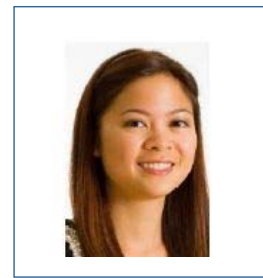
*Kevin Luoma, P.E.  
WSP Hawaii*



*Mofazzal Mir, P.E.  
InSynergy  
Engineering*



*Willie Diguc, P.E.  
Oahu AC*



*Samantha Nakamura, P.E.  
WSP Hawaii*



*Matthew Tio  
DMG Hawaii*



*Josh Jackson  
Air Treatment Corp.*

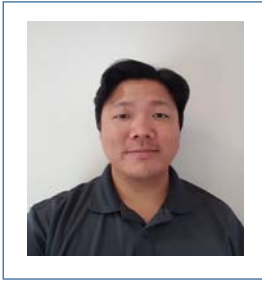


*William “Bill” Lee  
Coffman Engineers*



*David Lebowitz  
Oahu AC*

## Chapter Committee Chairs



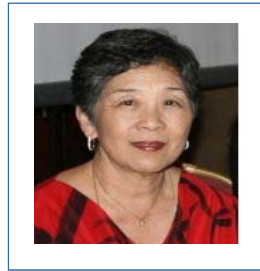
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*Kelsey Koshi  
ACS Supply Corp.*



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*Tony Rasabout  
Coffman Engineers*



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*Donna Kishi  
Norman S. Wright*



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*Andrew Crossland,  
P.E.  
Crossland  
Engineering*



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*Dave Drapalik  
Air Treatment Corp.*



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*Diamond Pedro  
ACS Supply Corp.*



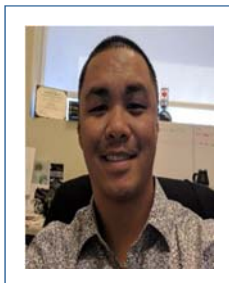
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*Jack Mullen  
Trane*



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*Joshua McDonough  
WSP Hawaii*



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*Tyson Quisano  
Air Treatment Corp.*

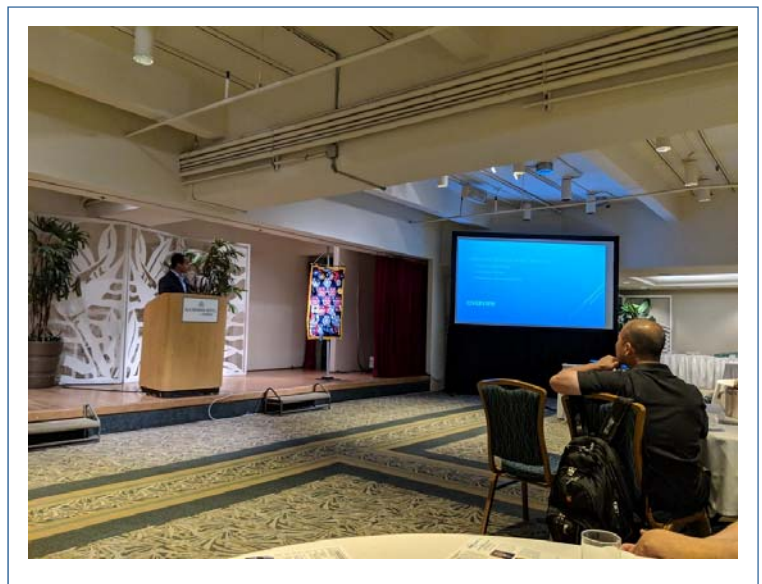
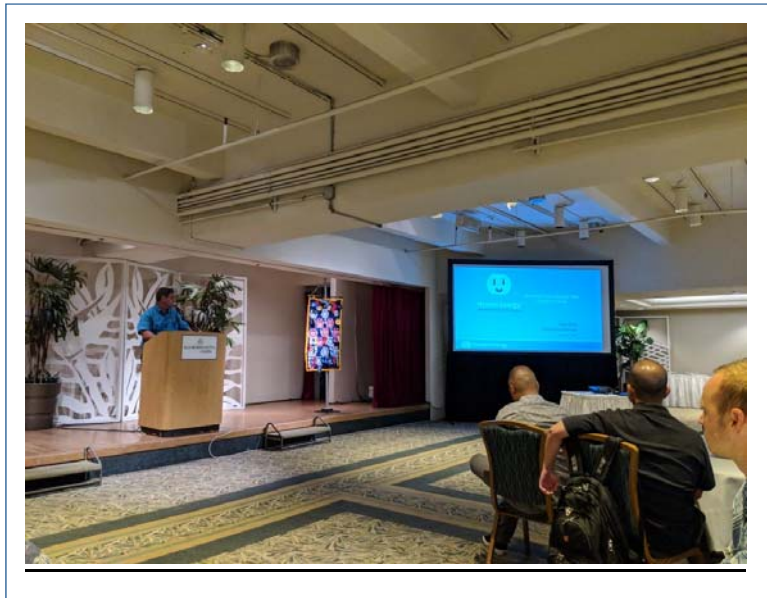
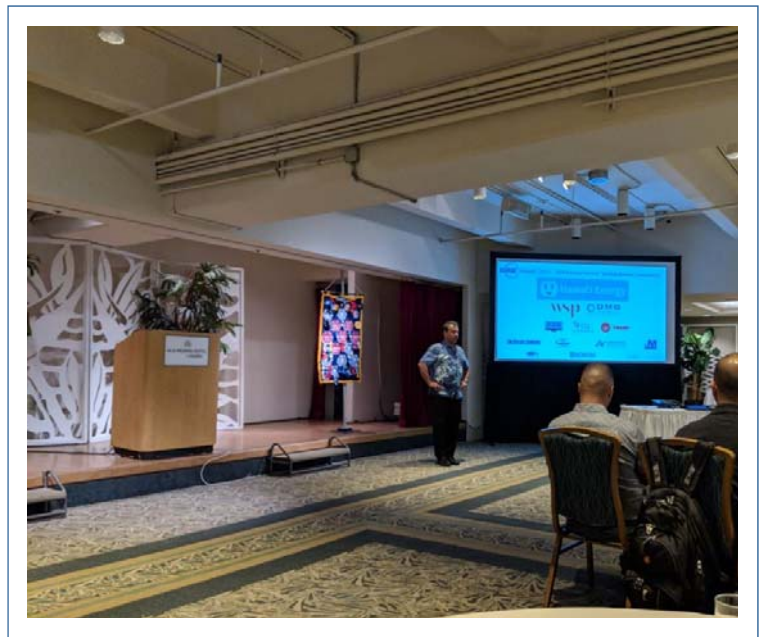


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*Joe Palasynski  
Trane*



# March 2018 Technical Seminar Pics



## March 2018 Technical Seminar Pics Continued





## Nominations for ASHRAE Officers and BOG 2018-2019 SY

*By Nominating Committee*

The nominating committee would like to present the following slate of Officers and Board of Governors for the ASHRAE Hawaii Chapter 2018 - 2019 Society Year:

President: Mofazzal Mir, P.E.

President Elect: Willie Diguc, P.E.

Vice President: Samantha Nakamura, P.E.

Secretary: Matthew Tio

Treasurer: David Lebowitz

BOG Members: Kevin Luoma, P.E. (immediate Past President), Donna Kishi, Paul Scott, Scott LaBeau

This slate is to be voted at the April 2018 Membership meeting.

Mahalo,  
Nominating Committee

## 2018 International Energy Conservation Code Training

# INTERNATIONAL ENERGY CONSERVATION CODE TRAINING

SPONSORED BY THE HAWAI'I STATE ENERGY OFFICE AND HAWAI'I ENERGY

**APRIL 16-23, 2018**

**A SERIES OF FREE STATEWIDE TRAININGS FOR GOVERNMENT  
EMPLOYEES, ARCHITECTS, ENGINEERS, CONTRACTORS AND  
OTHERS IN THE DESIGN AND CONSTRUCTION COMMUNITY.**

Get a head start by acquiring knowledge of the new code ahead of anticipated adoption by the counties. Since the last update 12 years ago, many technological and code improvements have been made. Learn about the new code from national code authority, Erik Kolderup, P.E. and Howard Wiig of the State Energy Office and State Building Code Council, who has been instrumental in the development and passage of the Hawai'i amendments.

This 3.5 hour training will highlight new requirements, including:

**Commercial Buildings:**

- Wall and roof insulation requirements
- Lower SHGC ratings for windows
- Daylighting
- Higher SEER levels for HVAC units, and many control options
- HVAC commissioning
- Higher lamp efficacy and controls
- A separate section on existing buildings

**Residential Buildings:**

- Energy rating index added as a compliance option
- Higher wall and window insulation
- Lower SHGC requirements for windows
- Blower door testing
- Higher lamp efficacy
- A new Tropical Code path

Code requirements for both residential and commercial buildings and updated checklists will be provided.

If you need assistance in order to participate; such as an interpreter, assistive listening device, or an alternate format of materials, contact [dbedt.energy-code@hawaiiomt.onmicrosoft.com](mailto:dbedt.energy-code@hawaiiomt.onmicrosoft.com) by April 9, 2018.

**There are two free sessions every day: the morning session is for the public sector and the afternoon session is for the private sector. Please register online accordingly.**

**DATES, LOCATIONS & TIMES:**

**MONDAY, APR 16:** O'AHU - Honolulu, Blaisdell Center Oahu Room  
 8 am- 11:30 am, 1 pm - 4:30 pm      <https://tinyurl.com/HNLEnergyCodeRegistration>

**TUESDAY, APR 17:** MAUI - Kahului, Maui Beach Hotel Maui Room  
 8 am- 11:30 am, 1 pm - 4:30 pm      <https://tinyurl.com/MauiEnergyCodeRegistration>

**WEDNESDAY, APR 18:** KAUA'I - Līhu'e, Līhu'e Civic Center Pi'ikoi Conference Room B  
 8 am- 11:30 am, 1 pm - 4:30 pm      <https://tinyurl.com/KauaiEnergyCodeRegistration>

**THURSDAY, APR 19:** HAWAI'I - Hilo, Engineering Partners Conference Room  
 8 am- 11:30 am, 1 pm - 4:30 pm      <https://tinyurl.com/HiloEnergyCodeRegistration>

**FRIDAY, APR 20:** HAWAI'I - Kona, West Hawai'i Civic Center Council Chamber  
 8 am- 11:30 am, 1 pm - 4:30 pm      <https://tinyurl.com/KonaEnergyCodeRegistration>

**MONDAY, APR 23:** O'AHU - Honolulu, Blaisdell Center Oahu Room  
 8 am- 11:30 am, 1 pm - 4:30 pm      <https://tinyurl.com/HNLEnergyCodeRegistration>

Complimentary light refreshments will be provided.

**SPONSORS**



UNIVERSITY of HAWAII MĀNOA



HAWAII



# Refrigeration Tour Announcement – April 20, 2018



## REFRIGERATION TOUR

Friday, April 20<sup>th</sup> @ 5:00 PM

**Beer Labs HI**

1010 UNIVERSITY AVE., HONOLULU, HI 96826

*Brewery Tour*



**FREE PUPUS after tour @ BEER LABS HI**

Pupus are courtesy of ASHRAE



## Innovation Symposium Announcement – April 26, 2018



Hawai'i Energy

# INNOVATION SYMPOSIUM

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Thursday, April 26, 2018  
7:30am – 4:00pm  
Sheraton Waikiki Hotel  
2255 Kalakaua Avenue

Network and learn from the energy industry's best and brightest in a series of seminars and breakout sessions, along with a trade show featuring many local vendors!

Register at [hawaiienergy.com/symposium](http://hawaiienergy.com/symposium)

**Breakfast and lunch included!**



Hawai'i Energy

## Membership Promotion Report

*By William (Bill) Lee, P.E.*

Hi,

For April 2018, please welcome to the family new members:

Mr. Worapatr Johri of P2S Engineering

Mr. Charles Jordan Wong of InSynergy Engineering

Please let me know if I can help you in any way concerning your membership and renewal process or if you want to upgrade your membership.

Thank you,

William (Bill) Lee

Membership Promotion Chair

## 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.*

There's so much in store for April. Starting with the Chapter meeting on April 12 presented by DL guest speaker, Raymond E. Patenaude, PE, CPMP, CIAQP, CEM, Managing Partner of the Holmes Engineering Group LLC. Next will be the IECC Statewide Training being held from April 16-23. Our second Refrigeration tour at Beer Labs HI on April 20. Lastly, an Innovation Symposium at the Sheraton Waikiki Hotel on April 26.

Also, there's our annual Golf Tournament coming up on May 4 at the Pearl Country Club. That is always a big turnout. If you haven't already, register online on our website at <http://ashraehawaiichapter.info/meetinginfo.php>.

As always, if you have anything ASHRAE related you want posted in the 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:** 3/1/2018 (Thursday)

**Time:** 5 pm to 6 pm

**Location:** Murphy's Bar and Grill, 2 Merchant St., Honolulu, HI 96813

**Attendees:** Kevin Luoma, Willie Diguc, Samantha Nakamura, Matthew Tio, Bill Lee, Kelsey Koshi, Jack Mullen, David Lebowitz, Kalani Castro, Joshua Jackson, Joshua McDonough, Andrew Crossland

**Call to Order:** 5:23 pm by President Kevin Luoma

### 1. Treasurer's Report – Matt

- a. **Budget Overall**
- b. **Budget from chair members?** – Golf Tournament budget has been provided. There is room in the budget for YEA activity.
- c. **Reimbursements**
  - Still need to issue some checks, waiting for more blank checks in the mail

### 2. Committee Reports:

- a. **Newsletter – Willie.** Submit your April articles by 3/23.
- b. **Chapter Programs – Andy / Dan.**
  - **PDH credits for chapter meetings.** No updates.
  - Post meeting topics to the website on the Friday before the event, regardless of if the newsletter is complete.
  - Facility engineers panel discussion – possible speakers from Anaha, Hawaii Pacific Health, Kaiser Permanente, Bank of Hawaii (Dan), hotel facility manager. Everyone on the BOG and committee chairs needs to send Andy and Dan an engineering question or topic that they want discussed by the panel for the May meeting.
  - Hawaii Energy will be providing a \$2k sponsorship for the May meeting. It was decided this will be used to subsidize the cost of admission to generate more attendance from non-ASHRAE members (\$25/person). This may also be a Membership Promotion night, so we can market to all the non-members who will be in attendance.
- c. **Sustainability – Joe.** No updates.
- d. **Research Promotion**
  - **Golf outing on 5/4/18** – Joshua & Katie. Invitations were sent out Monday 2/26. ACS will be sponsoring the golf cart stickers.
  - **Chapter RP meeting on 4/12/18.**
- e. **YEA – Joshua /Tyson**
  - **New YEA Members:** n/a
  - **Social event – Bowling:** This will now be a beach potluck at Magic Island in May. Marites has volleyball nets.
  - **Technical presentation** – The first event last month had a great turnout (15 people). Students who attended indicated they would be interested in attending chapter meetings as well.
- f. **Student Activities – Diamond / Jack Mullen**
  - HCC student chapter is in the works.
- g. **Refrigeration – Jeanessa.**
  - April 20 is the tentative date for the next event at Beer Labs HI. \$200 is budgeted for food (catering TBD).
- h. **Webmaster - David**

- **Basecamp** – Everyone is encouraged to use Basecamp for file sharing.
  - **Facebook Page** – No updates.
  - i. **Chapter Electronic Communications Chair – PAOE points to enter?**
    - Send to Kalani or enter your points online.
  - j. **Technology Awards –Kelsey – Technology Portal items**
    - No updates.
  - k. **CTTC, Mofazzal**
    - No updates.
  - l. **GGAC, Tony**
    - No updates.
  - m. **Membership Promotion – Bill**
    - There are 19 new members to date, but we have also had 19 lapses.
    - Net gain of 5 members is our goal this year.
    - Everyone be sure to ask your vendors if they are ASHRAE members, and if not, are they interested in becoming members!
  - n. **Attendance and Reception – Justin**
    - No updates.
  - o. **Technical Seminar and Product Show – Josh**
    - 3/7/18 at Ala Moana Hotel, please invite your colleagues to register.
    - Hawaii Energy is providing a large sponsorship, so we want to make sure to fill the house.
  - p. **Historian – Donna**
    - No updates.
- 3. Nominations Committee – Mofazzal, Bill and Donna, voting on offices in April meeting.**
- a. President: Mofazzal Mir
  - b. President Elect: Willie Diguc
  - c. Vice President: Samantha Nakamura
  - d. Secretary: Matt Tio
  - e. Treasurer: David Lebowitz
  - f. BOG: Donna Kishi, Paul Scott, Scott Labeau
- 4. New Items?** – The chapter needs a nice tri-fold display board to bring to events – anyone want to lead this charge?

**Adjourned:** 6:30 pm

**Next BOG Meeting:** Thursday, April 12 at Murphy's, 5pm. **NOTE LOCATION CHANGE.**

Respectfully submitted,

Samantha Nakamura, Secretary 2017-18