



HE EA MAKAME

October 04, 2017

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

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Sept. 2017

President's Message

By Kevin Luoma, P.E.

Aloha members of the Hawaii ASHRAE community.

Last month's Chapter Meeting was great and provided a wonderful dialogue amongst the people in attendance. That is what we want at these meetings, knowledge sharing to push Hawaii forward. RJ Ritter and Joe Palaszynski gave a presentation on wireless controls that looks to be the future of building controls and Howard Wiig gave a presentation on IECC 2015 and the energy efficiency improvements it made over IECC 2006.

This month's chapter meeting will be a new date so mark your calendars for Oct. 26th. We have a couple more excellent presentations. The first presentation will be by Charlie Waddell of Global Plasma Solutions and the main presentation will be by ASHRAE Society President Bjarne Olesen's. It is a very rare opportunity to have our society president present at a chapter meeting so make sure to attend. This year we are going to get our ASHRAE Student Chapter back up and running at UH Manoa. Our Student Activities Chairs Jack Mullen and Diamond Pedro are working with RJ Ritter to help push that forward. Great job by all to make this happen since the students are our future engineers of Hawaii.

Unfortunately, three of our ASHRAE Board Members, Lori Arakawa our Membership Promotions Chair, Valerie Mencias our YEA Chair and Dean Borges our past president have moved or are moving out of state in the next few months. They have donated countless hours of their time over the last few years and I would like to thank them for all that they have done. Luckily, we have been able to find a new Membership Promotions Chair in Bill Lee, one of our past presidents, and new YEA co-chairs in Tyson Quisano and Joshua McDonough. I know they will do a great job.

On Sept. 19 a large contingent of ASHRAE members attended the State Building Code Council meeting to try to assist in getting the 2015 IECC adopted for all counties. It was enlightening to be a part of this meeting and see the difficult process to get the new code adopted. ASHRAE will remain involved with this effort since adoption of the code will be vital to meet Hawaii's 2045 clean energy initiative.

Look forward to seeing everyone at the October meeting on the 26th!

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



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

October Chapter Meeting

Date: Thursday 26 October 2017

Where: The Plaza Club, 900 Fort St. Mall, 20th Floor,

www.theplazaclub.com

Registration: Starts at 5:30 pm. Contact Justin Choriki at 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 – Applying Needlepoint Cold Plasma in Commercial Applications to Reduce Construction/Renovation Costs, Save Energy & Reduce Maintenance



*Charles Waddell
President/CEO
Global Plasma
Solutions*

This presentation will provide a brief review of ASHRAE 62.1 and how to apply cold plasma technology to reduce ventilation requirements, by up to 75%, in commercial applications. The method in which cold plasma reduces particles, kills pathogens and reduces odors will be discussed.

Learning Objectives:

1. To understand both methods in ASHRAE 62 for determining ventilation rates
2. To become familiar with cold plasma technology
3. Understand how cold plasma technology reduces first cost and annual energy consumption in commercial applications when combined with the ASHRAE 62 IAQ Procedure
4. Understand how the technology reduces maintenance and improves IAQ

About the Presenter:

Charles “Charlie” Waddell, is the President, CEO and founding member of global plasma solutions, a savannah, Georgia, based air purification engineering and manufacturing company that specializes in government, education and healthcare air quality and energy saving solutions. Charlie’s experience includes designing HVAC systems in the residential, commercial, and industrial markets as well as for the aviation and hand dryer industries. Charlie holds a BSEE and BSEM from Old Dominion University, Norfolk, VA. Charlie’s prior experience to starting Global Plasma Solutions includes being the general manager of North America for Desiccant Rotors International, the Executive Vice President of Meadwestvaco Air Systems, a division of MeadWestvaco, a sales manager for Des Champs/Munters and a field engineer for Siemens Medical.

Charlie is an active member of ASHRAE and currently a participant of ASHRAE TC 2.3, and formerly the secretary of TC 8.12. Charlie is also a member of the newly formed USGBC Indoor Air Quality Assessment Committee, which intends to set the guidelines for “acceptable air quality” within LEED certified buildings. Charlie has over 16 years of HVAC design experience and has presented at over 50 different ASHRAE Meetings. Charlie’s latest accomplishments include ten patents granted, multiple patents pending, having an article published in engineered systems magazine on desiccant dehumidification, winning the 2016 IAQ product of the year award by ACHR News Magazine for the new self-cleaning, no maintenance, universal voltage input, GPS-iClean and having Global Plasma Solutions be a Top 40 Most Innovative technology company in Georgia in 2017 by the Technology Association of Georgia.

Main Presentation - ASHRAE, a Global Society for Building Technology & Indoor Environment – Health Comfort and Productivity



*Bjarne W. Olesen,
Ph.D.
2017-2018
ASHRAE Society
President*

ASHRAE, a Global Society for Building Technology:

This talk will be based on the presidential speech of president 2017/18, Bjarne W. Olesen. ASHRAE is today a leading engineering society with more than 57,000 individual members worldwide. About 20% of the membership reside outside USA and Canada. This society year's global initiative will include the establishment of ASHRAE-Europe and a global alliance for HVAC&R societies. ASHRAE established two years ago a residential committee to increase ASHRAE involvement in the residential sector. This will be further developed during this presidential year. Furthermore, ASHRAE will increase its activities to provide better conditions for people in developing economies. This will be done in close collaboration with UNEP and organization of a separate conference. Finally, ASHRAE will focus on student activities by supporting Solar Decathlon competitions worldwide and organize a student competition related to developing economies

Indoor Environment - Health Comfort and Productivity:

People spend in industrialized countries more than 90% of their lives in an artificial indoor environment (home, transportation, work). This makes the indoor environment much more important for people health and comfort than the outdoor environment. In typical office buildings the cost of people is a factor 100 higher than energy costs, which make the performance of people at their work significantly more important than energy costs. The task is to optimize indoor environmental conditions for health, comfort and performance while conserving energy, since more than one third of current global energy consumption is used to maintain indoor environments. Detailed field investigations of the indoor environment in hundreds of large office buildings in many parts of the world have documented that the indoor environmental quality is typically rather mediocre, with many people dissatisfied and many suffering from sick-building syndrome symptoms.

Recent studies under laboratory conditions and in the field have shown a significant influence of the indoor environment on people's productivity. Also studies on people sick leaves show a very high loss of work time and performance, which have significant economic consequences for companies. The paper presents an update on today's requirement for a healthy and comfortable environment. The paper will mainly be dealing with the indoor thermal environment and air quality. Several standards and guidelines are specifying requirements related to comfort and to health; but the productivity of people is not taken into account. Recent studies showing that comfortable room temperatures, increased ventilation above normal recommendation, reduction of indoor pollution sources and more effective ventilation increases the performance of people. The results indicate increase of productivity of 5-10%. Also based on the laboratory studies a 10% increase in dissatisfaction decreases the productivity with around 1%.

Main Presentation - ASHRAE, a Global Society for Building Technology & Indoor Environment – Health Comfort and Productivity (Continued)

About the Presenter:

Bjarne W. Olesen, Ph.D., Fellow ASHRAE, is ASHRAE's President for the 2017-2018 term. Olesen has previously served on the Board of Directors as Treasurer, Vice President and Director-at-Large.

In Olesen's theme, "Extending our Community," he focuses his theme on three directives: extend our global community; extend our technological horizons; and extend our value to members.

"Extending our global community will acknowledge our interconnectedness worldwide and embrace our shared needs and objectives," Olesen said. "The technical guidance we produce for *all* members is made stronger by global diversity."

Through the start of Olesen's time with ASHRAE, he did not have the opportunity to get involved with a local chapter to dedicate his time and efforts to the HVAC industry - and believes in the importance of working together to create a better built environment.

"Many of our members are only active on one side - either the technical side, mainly at the Society level, or the grassroots side at the local chapter level," Olesen said. "However, one side cannot live without the other. We will work to extend our global connections and more strongly link our members worldwide. Doing so will strengthen our Society's knowledge base, community reach and ability to shape a more sustainable world."

Olesen is the Director of the International Center for Indoor Environment and Energy and a Professor at Danish Technical University.

In addition to his time served on the Board of Directors, Olesen has been a part of many technical committees and been a Coordinating Officer of various committees, most recently: Conferences and Expositions Committee, Chapter Technology Transfer Committee, Honors and Awards Committee, Grassroots Government Advocacy Committee, Membership Promotion Committee, Research Promotion Committee, Student Activities Committee and Young Engineers in ASHRAE Committee.

For his efforts and dedication to ASHRAE, Olesen is the recipient of the Lou Flagg Historical Award, Fellow Award, Exceptional Service Award and Distinguished Service Award.

Olesen earned his Ph.D. in Heating and Air Conditioning in 1975 and Master of Science in Civil Engineering in 1972 - both degrees obtained from the Technical University of Denmark.

About ASHRAE

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 57,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today. More information can be found at www.ashrae.org/news.

2017-2018 Chapter Program

	Speaker	Topic
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	Solar Array Battery Storage
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
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>Chapter Officers for Society Year 2017-2018</p> <ul style="list-style-type: none"> • President: Kevin Luoma, P.E. • President Elect: Mofazzal Mir, P.E. • Vice President: Willie Diguc, P.E. • Secretary: Samantha Nakamura, P.E. • Treasurer: Matthew Tio 	<p>Committee Chairs</p> <ul style="list-style-type: none"> • Attendance and Reception Chair: Justin Choriki • Energy Awards Chair: Min Zhong, P.E. • Technology Awards: Kelsey Koshi • Grassroots Government Activities Chair: Tony Rasabout • Historian Chair: Donna Kishi • Membership Promotion Chair: William "Bill" Lee, P.E. • Newsletter Editor Chair: Willie Diguc, P.E. • Chapter Programs Co-Chairs: Andrew Crossland & Dan Mestas • Refrigeration Chair: Jeanessa Slaughter • Research Promotion Chair: Dave Drapalik • Student Activities Co-Chairs: Diamond Pedro & Jack Mullen • Technical Seminar Chair: Josh Jackson • Technology Transfer Chair: Mofazzal Mir, P.E. • Webmaster Chair: David Lebowitz • Chapter Electronic Communications Chair: Kalani Castro • Young Engineers of ASHRAE Co-Chair: Joshua McDonough & Tyson Quisano • Sustainable Activities Chair: Joseph Palazynski
<p>Chapter Board of Governors</p> <ul style="list-style-type: none"> • Josh Jackson • William "Bill" Lee, P.E. 	



*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*



*William "Bill" Lee
Coffman Engineers*

Chapter Committee Chairs



*Kelsey Koshi
ACS Supply Corp.*



*Tony Rasabout
Coffman Engineers*



*Donna Kishi
Norman S. Wright*



*Andrew Crossland,
P.E.
Crossland
Engineering*



*Dave Drapalik
Air Treatment Corp.*



*Diamond Pedro
ACS Supply Corp.*



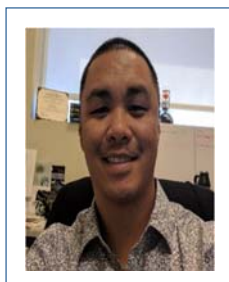
*Jack Mullen
Trane*



*David Lebowitz
Oahu AC*



*Joshua McDonough
WSP Hawaii*



*Tyson Quisano
Norman S. Wright*



*Joe Palasynski
Trane*

ASHRAE E-Learning & Training Announcement

ASHRAE Learning Institute 2017 Online Course Series

2 WAYS TO REGISTER

Internet: 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.

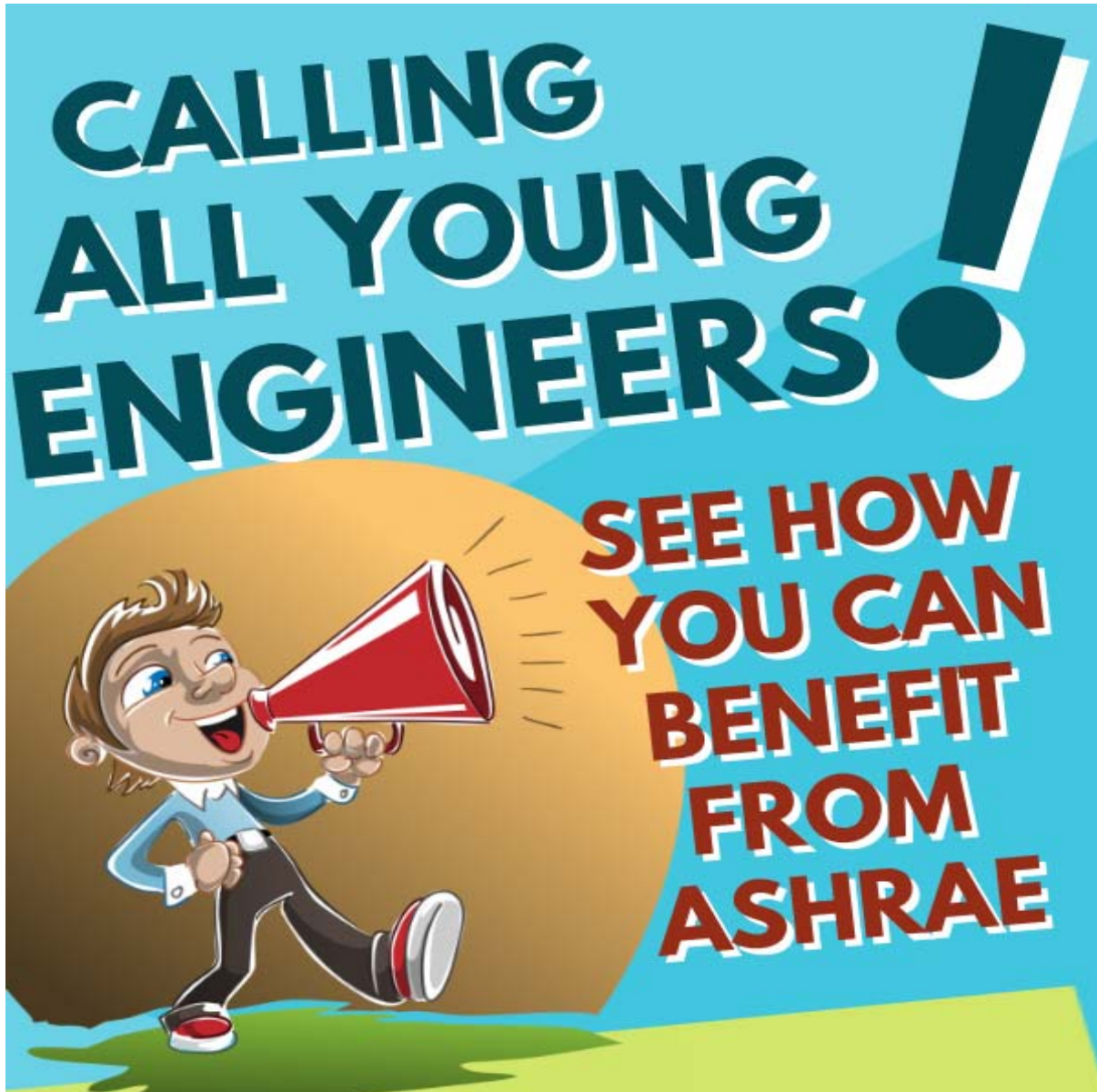
HVAC Design: Level II – Applications - Registration is \$854 (\$699 ASHRAE Member)

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 to register and learn how your Chapter can earn PAOE points.

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

Young Engineers of ASHRAE (YEA) Announcement



CALLING ALL YOUNG ENGINEERS!

SEE HOW YOU CAN BENEFIT FROM ASHRAE

ARE YOU AN ENTRY LEVEL ENGINEER OR MID-LEVEL PROFESSIONAL?
INTERESTED IN GETTING INVOLVED IN THE HVAC COMMUNITY?
THIS IS THE PLACE FOR YOU!

THE PLAZA CLUB
THURSDAY, OCT 26TH 5:30PM

Questions? Email: joshua.mcdonough@wsp.com

GGAC Committee Chair Report

By Tony Rasabout

U.S. DOE Recognizes ASHRAE's BCxP and BEAP Certifications



ASHRAE's [Building Commissioning Professional \(BCxP\)](#) and [Building Energy Assessment Professional \(BEAP\)](#) certifications have been recognized by the U.S. Department of Energy (DOE) as meeting the Better Buildings Workforce Guidelines (BBWG). This recognition positions the employers of BCxPs and BEAPs to compete for federal, state and local government body contracts calling for the services provided by these certified professionals.

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

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 or fax to 682-2828 Attn: Cheryl Kuroiwa.

Message from the Newsletter Editor

By Willie Diguc, P.E.

As Kevin mentioned in his message earlier, Dean Borges, Lori Arakawa, and Valerie Mencias will be leaving the islands to start the next chapter in their lives. I want to thank them for all the hardwork and volunteered time they spent with the chapter. I wish them the best of luck and hopefully they come back to visit.

I'm glad to hear that we already found some people to fill the YEA chair, Tyson Quisano of Norman S. Wright and Joshua McDonough of WSP Hawaii. Also, we welcome back Bill Lee, one of the Past Presidents of the chapter to fill the Membership Promotion chair.

As always, if you have anything ASHRAE related you want posted in the monthly newsletter, please send your email to admin@ashraehawaiichapter.info. All submitted material is subject to approval.

Mahalo and A hui hou!

ASHRAE Hawaii Chapter

P.O. Box 3916
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Chapter Website:
www.ashraehawaiichapter.info

ASHRAE Main Website:
www.ashrae.org

E-mail:
admin@ashraehawaiichapter.info



AGENDA - BOG Meeting Minutes

Date: 9/14/2017 (Thursday)

Time: 4:30 pm to 5:30 pm

Location: Plaza Club, 900 Fort St Mall, #2000, Honolulu, HI 96813

Attendees: Kevin Luoma, Samantha Nakamura, Matthew Tio, Lori Arakawa, Joe Palaszynski, Tony Rasabout, Jack Mullen, Justin Choriki, Joshua Jackson, Valerie Mencias, Marites Calad, Kalani Castro

Call to Order: 4:30 pm by President Kevin Luoma

1. Report from whoever attended CRC

- a. Student activities – possible to send student members in to future CRC's by requesting funding from Chapter Opportunity Fund

2. Chapter Opportunity Fund

- a. Each chapter has up to \$950 of funding available. After 10/31 any additional unallocated funding is made available to any chapter.
- b. Potential project with Kupu – request funding (who will lead this initiative?)

3. Treasurer's Report – Matt

- a. **Payment for UHM Student ASHRAE Membership** – Matt will send check to sponsor students, we have 6 students at UH (\$120 total).
- b. **Using a CPA for taxes, since we are a 501(c)3 we may not have to pay taxes on any purchases by the club and a CPA could potentially assist us with that.** – If anyone knows a CPA, let Matt and Samantha know. Marites or Jack to follow up.
- c. **Debit Card** – Account information has been updated to reflect new officers.
- d. **Budget** – Committee chairs need to send Matt their budget for the year, if funding is requested for any events.
- e. **CRC** – Send Matt any reimbursement requests for CRC.
- f. **Event insurance** – Matt to send Society event insurance guidelines to committee chairs.

4. Meeting with ASHRAE Society President Bjarne Olesen

- a. Event is on October 26, 2017. Marites will provide transportation for Bjarne Olesen and advise if any other events are planned during his visit.

5. Committee Reports:

- a. **Newsletter – deadline for articles to Willie.** Willie not present, per last BOG meeting the deadline is the 2nd to last Friday of the month for the subsequent month's newsletter. Deadline for Oct newsletter – 9/22.
- b. **Chapter Programs – Andy / Dan.**
 - No updates
- c. **Sustainability - Joe**
 - "Zero Waste Week" – further details to come
 - Committee members – Marites and Sam
- d. **Research Promotion – Dave**
 - No updates
- e. **Reviewed PAOE**
 - Kevin will schedule a planning meeting with Marites for PAOE points before the end of the month.
- f. **YEA – Valerie**
 - Valerie will be moving to the mainland. Tyson Quisano nominated to serve as YEA chair.
 - Suggested event – Dave and Buster's night sponsored by chapter

- For any future events, ensure they comply with requirements for ASHRAE's insurance policy coverage. Otherwise additional event insurance will need to be paid for by the chapter.
 - g. **Student Activities – Diamond / Jack Mullen**
 - If all chapter officers participate in a K-12 event we can earn PAOE points
 - Les Taniyama was nominated to lead the student branch.
 - Reminder – student members may attend monthly meetings for free, chapter sponsors their meal.
 - h. **Refrigeration – Jeanessa**
 - Events with Howard Hughes – Ice rink tour and well water system tour at Waiea condo.
 - i. **Webmaster/ Chapter Electronic Communications Chair**
 - Kalani to learn how to enter PAOE points – ask Dean for a tutorial
 - Status of basecamp – need to be transferred by the end of the year
 - j. **Technology Awards –Kelsey – Technology Portal items**
 - Entries – UH Cancer Research Center and Waiea
 - k. **CTTC, Mofazzal**
 - No updates
 - l. **GGAC, Tony**
 - Tuesday Sept. 19th at Kalanimoku Building at 9am there will be a Hawaii Building Code Council meeting for public comment where the current status of Energy Code could be discussed.
 - Attendance is encouraged, Kevin, Tony, Joe, Marites and Sam will attend. Might also count for Sustainability PAOE? Joe to confirm.
 - m. **Membership Promotion – Anyone know of potential replacements for Lori?**
 - Bill Lee was nominated.
 - We are down by 2 members this month, loss of 18 student members.
 - Goal for this year to encourage student members to continue membership with ASHRAE as affiliates (Sign up at the end of the school year).
 - Encourage associate members to upgrade to Member (free of charge, details can be provided by MP Chair).
 - n. **Attendance and Reception – Justin**
 - No updates
 - o. **Technical Seminar and Product Show – Josh, location? Date in March?**
 - Location TBD, not UH. People tend to appreciate the panel discussions.
 - Date will either be March 6 or 7, most likely a half-day event.
 - Possible DL's are Tim Wentz or Kishor Khankari. DL's can stay at Ala Moana hotel for discounted rate (this is typically what the chapter recommends).
 - p. **Historian – Donna**
 - Donna to take over for Dean setting up the Christmas Party, any assistance is appreciated – contact Donna if you would like to help.
- 6. ASHRAE Community Sustainability Projects**
- a. <https://www.ashrae.org/society-groups/volunteer/ashrae-community-sustainability-projects>
- 7. PAOE Points - Which ones shall we try to get this year?**
- 8. New Items?**
- a. Scholarships – the chapter can start a scholarship with \$30k, but it doesn't have to be deposited all at once. Money can be deposited in increments until the amount is reached. Any deposited amounts will go toward the chapter RP goal for that year.

- b. For \$30k scholarships, Hawaii Chapter would define scholarship eligibility guidelines and select recipients. If \$60k scholarship is created, Society chooses the recipient.
- c. Scholarships may be for university students. Marites suggested scholarships can also be used to fund YEA members to attend Leadership U at the Annual Meeting.

Adjourned: 5:55 pm

Next BOG Meeting: Thursday, October 26 before Chapter Meeting.

Respectfully submitted,

Samantha Nakamura, Secretary 2017-18