



# HE EA MAKAMAE

*A monthly publication by the American Society of Heating Refrigerating and Air Conditioning Engineers, Inc.*

*SY 2012-13, Issue #4 HONOLULU, OAHU, HAWAII December 2012*

## **PRESIDENT'S MESSAGE – Kevin Saito, P.E., LEED AP**

Aloha Fellow ASHRAErs,

Here we are headed into the last month of the year! It doesn't seem so long ago we were making our New Year resolutions and looking forward to a better 2012. How has the year been to you? Have you achieved your goals or are you still working towards them?

For me, the year has been interesting and challenging, to say the least, but I'll save that for another newsletter. Something I'd like to share with you in this newsletter is the state of the Chapter though we are not technically at the mid-point of the Society Year yet; we've had 3 monthly Chapter Meetings and there are 3 left in the SY (not including the Winter

Banquet/Christmas Party, Technical Seminar, and the year-ending Officer Installation Banquet.) It feels natural to report on the state of the Chapter in this last newsletter of 2012.

As you recall, my theme coming into this SY has been Growth: growth as a Chapter, for our leadership, and for our members. At this "mid-point", our Chapter has grown by 2%, a remarkable feat when considering the economic times we still live with. While other professional societies/organizations may report a decrease in membership and attendance, our Chapter has not and that is an indication of the validity of ASHRAE and the value the organization brings to you and your company. You may also recall



from my incoming message, I defined Chapter growth not just in terms of more paid members but in the form of more activities outside the monthly General Membership meetings and technical events. We've had a few of these (wine education seminar, billiards tournament, etc.) and so far the feedback has been positive from those participating. The networking at these events has been tremendous and the outreach to those not traditionally associated with the HVAC industry in Hawaii very positively received. Heading into 2013, I look forward to the other social events planned for our Chapter knowing they will be equally (if not more) well-received and successful.

As to growth in our leadership, young members have been stepping up as evidenced by Matt Tio's excellent development and execution of the November Billiards Tournament. Even with his heavy professional work load, Matt coordinated and led an enthusiastic group through a challenging and competitive billiards tournament at Dave and Busters. It was clearly evident this event was popular among the YEA crowd though a few "well seasoned" members showed up as well. Without reservation, everyone had a great time and my personal kudos to Matt for his cheerful, positive leadership! Mark him as a member to watch in the near future for great things to come!

The final "growth" category is one that depends on you the member. The Chapter can only offer the opportunity but cannot give to you the benefit directly. We've hosted a live webinar, held 3 General Membership meetings with great technical speakers, and hosted a couple of technical tours. How many of those have you attended and did you find value in them? If not, please let us know so we can provide the opportunity for you to learn and grow as a professional. In the coming second half of the SY, we have lined up an excellent Refrigeration Tour, a tour of the recently completed UH School of Medicine Cancer Research facility, and a Technical Seminar featuring ASHRAE Society President Tom Watson. I hope to see you at one or more of these events.

*Kevin Saito, P.E. LEED AP*

## Snapshot of Chapter Activities - December 2012

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
				ASHRAE Christmas Party and Past President's night at Honolulu Country Club 5:30 pm		
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					
				<b>January 19<sup>th</sup> - Family Hike</b> <b>January 17<sup>th</sup> - Monthly Meeting</b>		

**REGISTRATION FORM**

Name (Member): \_\_\_\_\_  
 Guest (Non-Member): \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Rocky Mould (Rockymould@lumensolar.net)**

**Limited 80 Attendees – RSVP Linda at lscottesi@aol.com by Dec. 6**

	Number	Cost	Total
Member & Spouse/Significant Others		\$50	
Non-member		\$55	
No RSVP (walk-in Mbr or Non-Mbr)		\$75	
Children (10 – 17 years old)/Students		\$25	
Children (9 years & below)		FREE	
Past Presidents		FREE	

**Cost includes: Food (heavy pupus / buffet dinner) & Drink (1 ticket each) at Honolulu Country Club; Games & Prizes;**

**TAX-DEDUCTIBLE DONATIONS ( \_\_\_\_\_ Sponsor):**

**Platinum Sponsor:\$200+      Gold Sponsor:\$100-\$199**  
**Silver Sponsor:\$50-\$99      Bronze Sponsor:\$25-\$49**

**TOTAL AMOUNT ENCLOSED**

Make check payable to **ASHRAE Hawaii Chapter**.  
 Send check to **P.O. Box 3916 Honolulu, HI 96812-3916**.

**2012-13 Officers, BOGs & Committee Chairpersons**

**OFFICERS**

President	Kevin Saito, P.E.
President-elect	Barry Jim On, P.E.
Vice President	William (Bill) Lee, P.E.
Secretary	Donna Kishi
Treasurer	Dean Borges, P.E.

**BOARD OF GOVERNORS**

Paul Scott (Immediate Past President), Blake Araki, P.E., Dean Oakley, Scott LaBeau, Kevin Luoma, P.E.

**COMMITTEE**

Attendance & Reception  
 Chapter Technology Transfer  
 Chapter Programs  
 Governmental Activities  
 Refrigeration  
 Energy Awards  
 Technology  
 Historical  
 Membership Promotions  
 Newsletter Editor  
 Research Promotions  
 Student Activities  
 Technical Seminar  
 Young Engineers of ASHRAE

**CHAIRPERSON**

Melissa White / Rocky Mould  
 Barry Jim On, P.E.  
 Kevin Luoma, P.E.  
 Michael Chang  
 Dean Oakley  
 Mofazzal Mir, P.E.  
 Kevin Ku  
 Paul Scott  
 Joseph Ting, P.E.  
 William (Bill) Lee, P.E.  
 Marites Calad  
 Scott LaBeau  
 Herman Siu  
 Tony Rasabout



Santa's helper watched as baby got her picture taken.



Past Presidents & DRC Jack Zarour sang X'mas carols.



Honolulu Country Club



**X'MAS Party & Past Presidents Night**  
**Dec. 13th ( Thursday )**

**5:30 PM ~ 6:00 PM: Registration**  
**6:00 PM ~ 6:30 PM: Keiki Picture with Santa Claus**  
 (Specify your children name, age, gender & special gift from Santa)  
**6:00 PM ~ 6:30 PM: (Adult's Attitude Adjustment)**  
**6:30 PM ~ 8:30 PM: Buffet Dinner/Door Prizes**

Hosted By

**HISTORICAL COMMITTEE**

[ashraehawaii.chapters.info](http://ashraehawaii.chapters.info)

**Honolulu Country Club**

1690 Ala Puumalu Street  
 Honolulu, HI 96818  
 Phone: (808) 441-9400

**2012-2013 HAWAII CHAPTER – OFFICERS, BOARD OF GOVERNORS AND COMMITTEE CHAIRPERSONS**

**Chapter Officers**

President: Kevin Saito, P.E. LEED AP

President-Elect: Barry Jim On, P.E., LEED AP, CxA

Vice President: William “Bill” Lee, P.E., LEED AP

Secretary: Donna Kishi

Treasurer: Dean Borges, P.E., LEED AP, CxA

**Chapter Board of Governors**

Paul “Scotty” Scott, (Immediate Past President)

Blake Araki, P.E.

Dean Oakley

Kevin Luoma, P.E.

Scott La Beau

**Chapter Chairperson**

Attendance and Reception: Melissa White

Technology Transfer: Barry Jim On, P.E., LEED AP, CxA

Programs: Kevin Luoma, P.E.

Governmental Affairs: Michael Chang

Refrigeration: Dean Oakley

Technology: Kevin Ku

Energy Awards: Mofazzal Mir, P.E.

Historian: Paul “Scotty” Scott

Memberships Promotion: Joseph Ting, P.E., CxA

Newsletter Editor: Bill Lee, P.E., LEED AP

Research Promotion: Marites Calad

Student Activities: Scott Le Beau

Technical Seminar: Herman Siu

Young Engineers of ASHRAE: Tony Rasabout

Webmaster: Dean Borges, P.E. LEED AP, CxA

## *STUDENT ACTIVITIES – Scott LaBeau*

### **ASHRAE Hawaii Student Activities Report**

Alakai Mechanical sponsored a tour of their sheet metal and piping production facility in Honolulu, Hawaii on November 7<sup>th</sup>, 2012. The 45 minute tour started with an overview by Willie Kaina, General Superintendent AC Division, Gary Sato Warehouse Manager, Kaipo Akaka General Superintendent Sheet Metal Division, Darren Sarajina General Superintendent Hawaii Hotel & Restaurant Supply Division and Jackson Cheng, General Manager. The 45 minute tour started with the custom sheet metal fabrication area which builds custom stainless steel cabinets and counters for restaurants. The next line includes the sheet metal ductwork lines for rectangular and round ductwork. The last part of the tour included the piping fabrication area where steel, copper and PVC pipe can be welded, brazed or glued for a number of special applications including the multiple sewer and water upgrades ongoing in Hawaii.

Students from both Honolulu Community College and University of Hawaii Manoa campuses were in attendance. A total of 25 students and ASHRAE members attended the tour. DMG hosted coffee and pastries for the group.

**Scott LaBeau**

**AHSRAE Hawaii Student Activities Chair**

## **Pictures of Alakai Mechanical Tour**





## *Research Promotion – Marites Calad*

**Annual Goal: \$15,500**

**Full Circle Due Date: Nov. 15, 2012**

**Total Raised (up to Nov. 16, 2012): \$770**

**THANK YOU TO THE FOLLOWING DONORS:**

**Dean Borges  
Marites Calad  
Lyle Nakamura  
Kenneth Nakahara  
Kevin Saito  
Bill Lee  
John Arizumi  
Donna Kishi**

**We will be selling more Raffle Tickets to win a Round Trip For Two at our Christmas Party.**

**Major RP Events:**

- **Annual Volleyball Tournament (March 2013)**
- **Golf Tournament (May 17, 2013)**

**We hope to continue to raise RP\$\$\$ at our monthly membership meeting, thru sponsorships and from our calling campaigns.**

**We want to thank ASHRAE members and friends for supporting Research Promotion.**



# MEMBERSHIP PROMOTION – Joseph Ting, P.E.

## It's Time to Update Our Chapter Roster!

With a dynamic HVAC&R community in the State of Hawaii and the mobility of each member, the chapter needs to keep up with the fast pace in technology.

We thank you for your continuous supports these past years. Since the first electronic Roster was launched in January 2008, we received great feedback from our members.

Please browse and surf through our new chapter website <http://ashraehawaiichapter.info> ... You will notice that there is a button for you to click-on to open the Chapter Roster. It should assist you in finding the contact person in our industry, the electronic line card of a specific company and the mechanical HVAC&R equipment/system you are designing, specifying or constructing. If you are an ASHRAE member, but have not paid your chapter dues, please do so. As it is password protected, only chapter dues-paid members will be given appropriately the password in order to get access to the said roster. For your information, you need to pay first the Society dues of \$185 before you can be a Chapter member. Until your Society dues & \$25 chapter dues are paid in-full for this fiscal year, you won't be provided with a password to access the roster. To date, forty four members did not pay their chapter dues. We encourage them to remit their payment to our Treasurer. The Chapter Board of Governors has recommended the committee to annually update this electronic Chapter Roster that includes the directory of chapter members, student members as well as the electronic line card of each supplier/vendor, consultant and contractor.

To help you promote your own company statewide, we need you to participate and support this program. Visit our chapter website <http://ashraehawaiichapter.info> for more information ...then click "Membership". Sponsors & contributors of the Chapter Roster, kindly use the same form to renew, as there is no change for the annual rate.

## New Chapter Members

When SY 2010-11 commenced on 7/1/10, our Chapter area-assigned members were 244, and when SY 2011-12 started on 7/1/11, our Chapter area-assigned members were 246 (about 1% growth). As the SY 2012-13 opened its new year on 7/1/12, our Chapter area-assigned members showed 252 as provided by the ASHRAE HQ report... an increase of about 2% average growth. Although it's marginal, we have improved twofold of the previous fiscal year. That said, we'll start with the great news first. Let's welcome five of our newest members, Samantha Niver, Daniel Mestas, Michael Silva, Robert Rockwell Mould and Jason Edward Huffman, who elected to be ASHRAE member as of July 1, 2012.

## New Student Members

Likewise, let's welcome our new student members, who are our lifeblood of the Society. Listed below are the new members from ASHRAE UHM Student Branch student branches:

Adam Akui	Jocelyn Gabriel	Cameron Grant	David Lenowitz
Kelsey Koshi	Jonathan Imai	Dane Matsukawa	Daniel Nakagawa
Kenneth Ogata	Diamond Pedro	Tyson Quisano	Melvyn Sumer
Ryan Safahi	Elizabeth Viernes		

## November Meeting Presentation Summary – Kevin Luoma P.E.

### **Main Presentation Follow-up:**

#### **Honolulu Seawater Air Condition Project**

Ingvar Larrson and Joakim Nilsson provided the main presentation to the ASHRAE Hawaii Chapter in the November meeting discussing how the Honolulu Seawater Air Conditioning project works and the current status of the project.

Some of the highlights of the presentation dealt with the following topics:

- How far the intake and discharge HDPE pipes extended out into the Pacific Ocean and why those specific distances were chosen. The intake pipe will extend out 25,000 at 1,700 feet below sea level and the discharge pipe will be at 400 feet below sea level.
- The capacity and location of the new plant being constructed. The plant will be located behind the Gold Bond building in Kakaako and the capacity of the system will be 25,000 tons.
- Why chillers will be required in the central plant. This is because the plant needs to provide a constant 44F chilled water temp to the buildings but the seawater will only be able to maintain a average temperature of 44F so at times the chilled water will need to be cooled down.
- The material used for the distribution piping underground and how that piping will be installed. Much of the underground piping will utilize micro tunneling in order to avoid disturbing the streets above. The piping will be thick concrete with plastic lining. No insulation will be used since the concrete is so thick.
- When the project is anticipated to start constructions. The anticipated date is mid-summer of 2013 since the Honolulu Seawater Company will need at least 50% of the system's capacity under contract to ensure there will be enough capital.

The presentation was extremely informative and I am sure everyone in the industry is eager for the project to get started since it will require a lot of retrofitting within the various buildings downtown and lots of new equipment will need to be purchased.

For additional information on the Honolulu Seawater Air Conditioning system feel free to contact the company directly by the contact information below.

[katja.silvera@honoluluswac.com](mailto:katja.silvera@honoluluswac.com)  
[www.honoluluswac.com](http://www.honoluluswac.com)

### **Do's and Don'ts Presentation Follow-up Hot Water Heating in Hawaii**

The Do's and Don'ts presentation for the November ASHRAE Chapter Meeting was by Mark Hertel of Inter Island Solar Supply. Within the presentation Mark discussed the evolution of water heating within Hawaii over his 35+ years working in here.

Initially Mark discussed the requirements of HRS Chapter 196-6.5, solar water heater systems required for new, single family residential construction. Within the requirements solar water systems are required for any new single family residence but when that residence is only going to be occupied for short periods of time throughout the year it will be necessary to take advantage of the gas tankless water heater or photovoltaic variances. After that Mark went on to discuss the high efficiencies that condensing boilers offer and some do's and don'ts with regards to designing hot water systems. For more information on what Inter Island Solar Supply has to offer feel free to go to their website or contact Mark Hertel directly.

[mhertel@solarsupply.com](mailto:mhertel@solarsupply.com)  
[www.solarsupply.com](http://www.solarsupply.com)

**NEWSLETTER EDITOR – William “Bill” Lee, P.E., F.P.E.**

- Another year is quickly passing – hope it has been a great year for you. This is the best time of year. Where we can look back and savor the good times, and thank God for another year. Here’s to our great families, friends, co-workers, and business buddies – that help make life a little sweeter. Come to the Christmas Party and celebrate the end of a great year and the beginning of an even better one.

If you have a job opening at your company, technical article, project of interest, or suggestion please let me know so we can add to our newsletter.

([leeb@coffman.com](mailto:leeb@coffman.com) )

**LOOKING AHEAD:**

Make note of the upcoming meetings (**Note: the meetings are on the 3<sup>rd</sup> Thursday of the month**):

**December:**

1. Christmas Party (Past Presidents Night): Dec. 13th – Honolulu Country Club

**January:**

1. Family Hike – January 19th
2. Monthly Meeting – Jan. 17<sup>th</sup>
  - DOs and DON'Ts - Heat Exchangers by Matthew Coplan of Alfa Laval
  - Main Technical Presentation – Sustainable Strategies for Four Different Bldgs by Daniel Nall of WSP Flack & Kurtz
3. Technical Tour – Cancer Research Center - TBD

**February:**

1. Monthly Meeting – Feb. 21st
  - DOs and DON'Ts - TBA

- Main Technical Presentation – Data Center Cooling and Cloud Technologies by Carl Mullen of DRFortress
2. Engineers Week – Feb. 16 thru 19<sup>th</sup> – Display at Pearlridge Shopping Center

**March:**

1. Refrigeration Technical Tour – YEA/Family – Ice Palace – March 21st
2. Volleyball Tournament – March 23rd

**April:**

1. Technical Seminar – “Broadening ASHRAE Horizons – To Net Zero Energy Building Usage” – April 12<sup>th</sup> at the East – West Center

Featured Speakers are:

- *Thomas E. Watson, P.E., Chief Engineer of Daikin McQuay. 2012-13 President of ASHRAE Inc.*
- *James L. Stone, Arch D., AIA, LEED AP BD+C, Principal of Group 70 International*
- *Richard Beall, P.E., LEED AP, Principal of Beall And Associates Inc*
- *Dennis Stanke, Staff Application Engineer of Trane Company, Chair of ASHRAE Standard 189.1 (Design of High Performance of Green Buildings)*

**May:**

1. Monthly Meeting - May 16<sup>th</sup>
  - DOs and DON'Ts - TBA
  - Main Technical Presentation – UHM Student Presentations
2. Golf Tournament – May 17th

**June:**

1. New Officer's Installation Banquet – June 20<sup>th</sup> ???  
Stay tuned for details

**August 2014 – Hawaii is hosting the CRC – Region X Regional Conference:**

August 7,8,9, 2014 at Ala Moana Hotel

# November Chapter Meeting



Some of our student members



Mark Hertel sharing some hot water do's and don'ts

## November Chapter Meeting (continued)



More Ono food at Da Kitchen – Matt enjoying the Hawaiian food



Ingvar Larrson sharing about Honolulu Seawater

# November Chapter Meeting (continued)



Good attentive audience



**Joakim Nilsson, Kevin Luoma, and Ingvar Larrson**