

ASHRAE

Hawaii Chapter

HE EA MAKAMAE

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

SY 2010-11, Issue #2 HONOLULU, OAHU, HAWAII September 2010

PRESIDENT'S MESSAGE – Michael Chang

Aloha ASHRAE Ohana,

A big mahalo to all for their contributions to a great meeting last month. There was a quick run through of chapter business with concise updates of the great activity by each committee.

The “Dos and Don’ts” and technical topics were interesting and informative with lots of discussion during and after the meeting. There was a great mix of attendees from the student chapters, design, vendors, and contractors all represented. If you missed it, please plan to attend the September meeting as the Chiller topic is sure to be popular.

ASHRAE Hawaii has stepped up our community participation efforts



Chapter Officers – Society Year 2010 to 2011

President: Michael Chang
President-Elect: Paul “Scotty” Scott
Vice President: Kevin Saito, P.E. LEED AP
Secretary: Barry Jim On, P.E.
Treasurer: Paul Fukunaga, P.E.

Chapter Board of Governors

Blake Araki, P.E.
Albert Hahn, P.E. (Immediate Past President)
Donna Kishi
Scott La Beau
Bill Lee, P.E.
Dr. Melek Yalcintas, P.E.

with a meeting with State Energy officials, participation on a State Building Code Council meeting and forwarding Society position letters to the legislature. We have great talent, experience and natural problem solvers in ASHRAE Hawaii and we can contribute much to shaping our Islands' future.

Me ke aloha pumehana,
Michael

Chapter Chairperson

Attendance and Reception: John Lau

Technology Transfer: Paul "Scotty" Scott

Programs: Blake Araki, P.E.

Government Affairs: Barry Jim On, P.E.

Refrigeration: Scott La Beau

Technology: Herman Siu

Energy Awards: Bill Lee, P.E.

Historian Joseph Ting, P.E.

Memberships Promotions: Roland Suzuki

Newsletter Editor: Kevin Saito, P.E. LEED AP

Research Promotions : Archibald Makatini


Product Show: Donna Kishi

Technical Seminar: Dr. Melek Yalcintas, P.E.

Student Activities : Alayna Shima

Young Engineers of ASHRAE: Brandon Maeda

Webmaster: Mark Yamamoto, P.E.

October 2010						
SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
				Chapter Meeting Membership Promotion Night		
17	18	19	20	21	22	23
		USGBC HI Chapter LEED Green Associate Workshop		JABSOM Field Trip (9:00am)		
24	25	26	27	28	29	30
				Chapter BOG Meeting	ASHRAE - UH Manoa Career Fair	
31	 <p>Don't forget to safeguard your children for Halloween!</p>					

Announcements:

- ✓ Nominations for Energy Projects are needed (contact Bill Lee)
- ✓ John A. Burns School of Medicine Field Trip: 21 Oct
- ✓ ASHRAE- UHM Career Fair: 29 Oct
- ✓ Tech Seminar and Product Show: March 11, 2010 (UH East-West Center)
- ✓ Refrigeration Field Trip:
- ✓ UH Career Day:
- ✓ Moanalua HS Day:

Next Board of Governors Meeting:

Date: 28 Oct 2010 (Thurs)
 Time: 11:30 am
 Location: 1132 Bishop Street, Suite 1800 (Hawaii Energy Offices)

Treasure Hunt!!!

The Chapter is looking for the oldest:

- *Consulting engineering firm.*
- *Installed controls system*
- *Installed AC system*
- *Longest ASHRAE membership in Society/Chapter*



NEXT CHAPTER MEETING

Date: 14 October 2010 (Thursday)

Where: The Willows Restaurant (901 Husten Street, Phone (808)952-9200)

Registration: Starts at 5:30 pm. (Contact John Lau jl-msn@hawaii.rr.com to RSVP)

Do's and Don'ts: Starts at 6:00 pm Mr. Jim Stevens ("Variable Speed Drives: What You Can Change, Can Save You \$\$\$")

Dinner: Starts at 7:00 pm (buffet)

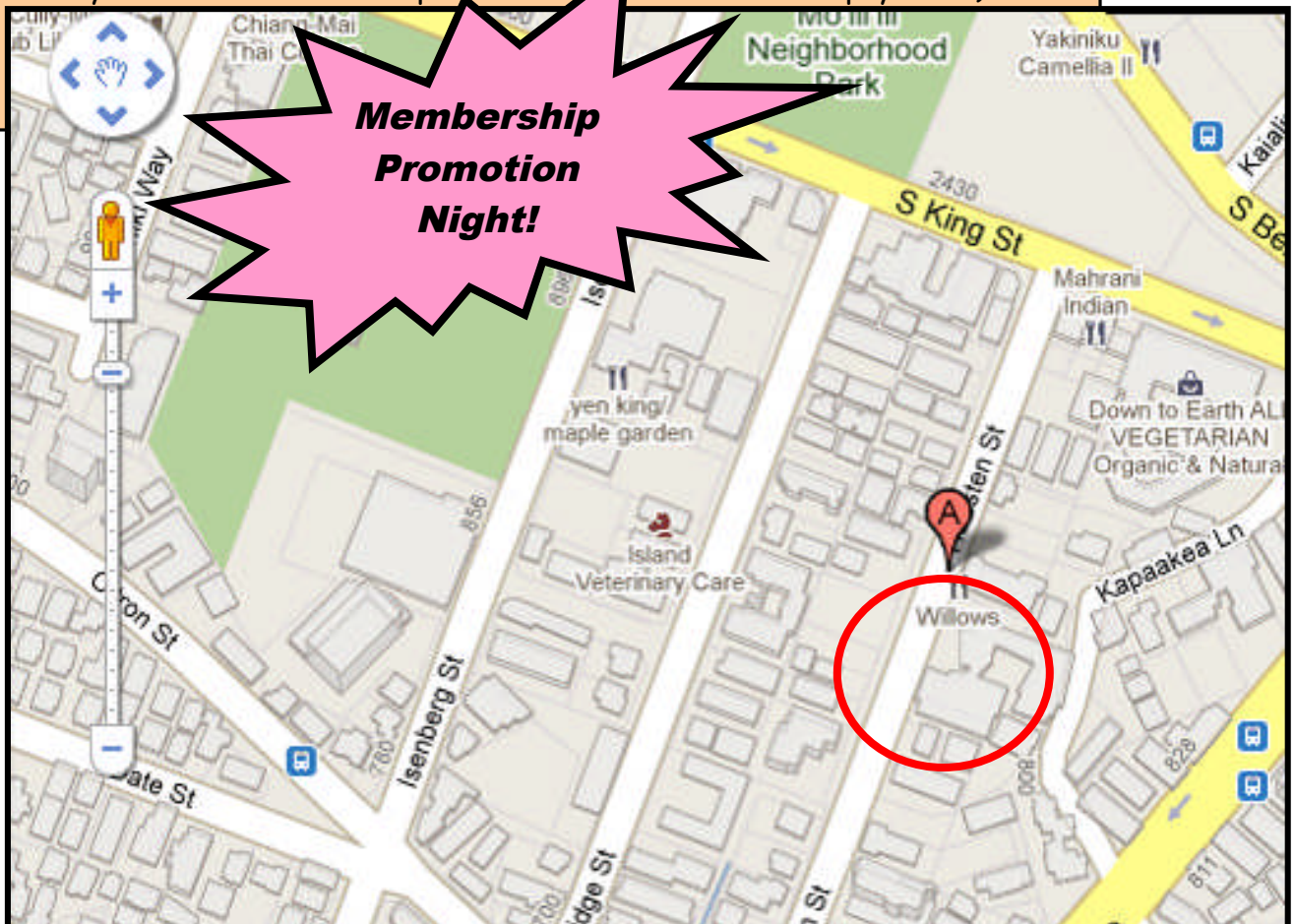
Main Program: Starts at 7:30 pm "Making the Right Chiller Selection Saves Money"

Main Speaker: Chiller Manufacture Panel

Adjournment: 9:00 pm

Cost: \$45 per ASHRAE member; \$50 per guest; \$55 at the door registration.
(Use the PayPal button on our Chapter web site for convenient payment.)

Limited to 50
Attendees –
Rainbow Room
(upstairs)



ASHRAE Hawaii Chapter – October 2010 Program

Main Topic: Making the Right Chiller Selection Saves Money

When considering a new project, business owners, developers, contractors and engineers look at total cost of ownership. One of the major costs of ownership is electrical usage. In Hawaii for a simple building, the mechanical system can consume up to 65% of the total electrical usage. Of the 65% mechanical system total, the central plant may consume 70% of the electrical usage. The chiller is the heart of the central plant and the largest energy consumer. They come in a variety of capacities, physical size and employ a wide range of technologies making the selection process complicated. What type of chiller is best for a building? It all depends..!

Our October meeting will feature the following chiller manufacturers/representatives:

- Carrier
- McQuay
- MultiStack
- Smardt
- Trane
- York



Each manufacturer/representative will be given a hypothetical central plant basis of design (BOD) for a simple building being developed. The BOD will consist of but not limited to: estimated maximum tonnage, building usage and schedules, etc. Each participant will be given 10-12 minutes to present their product. A question and answer period will immediately follow.

Do's and Don'ts Topic: Variable Speed Drives: What You Can Change, Can Save You \$\$\$

Do's and Don'ts

Speaker: Jim Stevens

Regional Sales Manager
Inverter Technology Inc.



Experience: James Stevens has 27 years experience in the variable speed drive service, sales, and installation market segment. As a Regional Service Product Manager for Carrier Corporation, Jim was responsible for the growth of Ancillary Products for the Western Region of the United States. During his tenure of 10 years at Carrier, Jim was instrumental in the development and subsequent release of the 32VFD Product offering. Jim is currently the President and CEO of Inverter Technology, Incorporated. Inverter Technology has engineered and installed variable speed drives on existing chillers ranging from 250 to 2000 tons, 230volts to 5kv and has executed some of the largest HVAC variable speed drive retrofits in the United States.



ASHRAE OCTOBER 2010 MEETING MENU

Chilled Items (2 of below)

Mixed Field Greens
Caesar Salad
Antipasto Salad
Nu Potato Salad
Bean Sprout Namul



Starch

Steam White Rice
Dinner Rolls

Hot Entrée's (3 of below)

Fried Noodles with Shredded Char Siu Chicken
Steamed Vegetable Medley with Garlic Herb Butter
Ratatouille with Fresh Basil & San Marzano Tomatoes
BBQ Chicken with Kabayaki Glaze & Grilled Scallions
Deep Fried Chicken Kara age with Ginger Soy Glaze
Soy/Star Anise Baked Chicken
Chicken Long Rice
Slow Braised Kalua Pig
The Willows Famous Curry (Shrimp or Chicken)
Condiments includes Raisins, Shredded Coconut, Peanuts & Mango Chutney

Dessert

Chefs Choice of Freshly Made Desserts

Beverage (1) Included

(Drink Tickets Will Be Provide By The Willows Based On The Confirmed Count)

Soft Drinks (Refillable)

Juices

Domestic Beer

Imported Beer

Willows Private Label (Well Drinks)

House Wine (by the glass)



Upcoming Chapter Meetings:

11 Nov - The Willows, 5:30pm (Student Membership Night)

9 Dec - TBA, 5:30pm (Past Presidents (Historical) Night & Christmas Party)

13 Jan - TBA, 11:30am (Research Promotion Day)

10 Feb - The Willows, 5:30pm (Membership Promotion Night)

11 Mar - Technical Seminar and Product Show

14 Apr - The Willows, 5:30pm (Student Membership Night)

12 May - The Willows, 5:30pm (Research Promotion Night)

9 Jun - TBA, 5:30pm (Installation Night)

Upcoming BOG Meetings:

(1132 Bishop Street, Suite 1800
Hawaii Energy Office at 11:30 am)

28 Oct 2010

18 Nov 2010

16 Dec 2010

27 Jan 2011

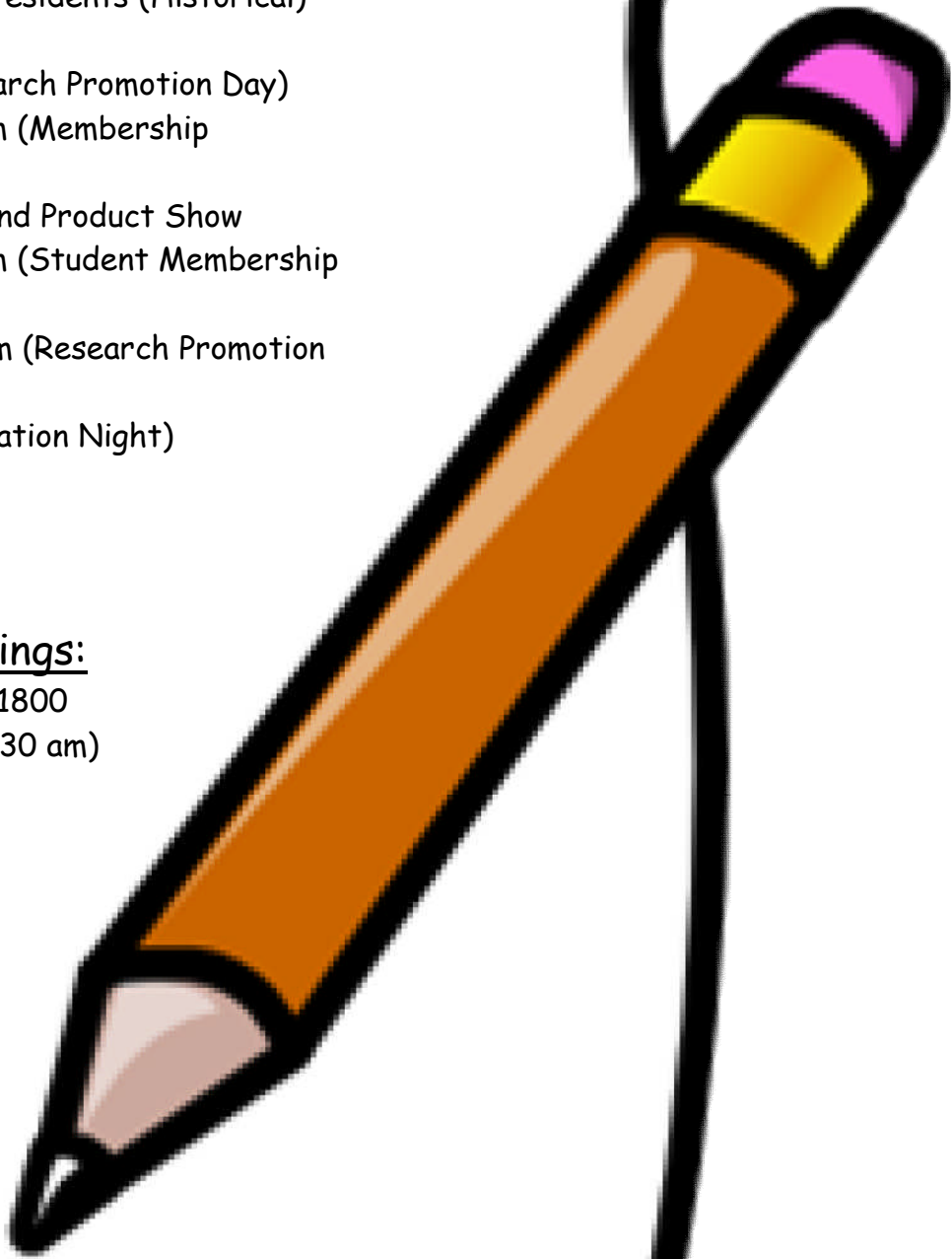
17 Feb 2011

24 Mar 2011

28 Apr 2011

26 May 2011

23 Jun 2011



From the Editor

TRICK OR TREAT! Is it a question or a meaningless statement?

Is it a forgone conclusion that we must receive either a trick which is defined as "an act or procedure intended to achieve an end by deceptive or fraudulent means" or a treat: "a source of special delight or pleasure"? Given a choice between the two, I would pick treat of course but why must we accept there are only 2 options? Or is there another, more insidious option looming in the background...?

If trick or treat is an implied threat and we will receive a treat if we choose to be tricked or, conversely, we will be tricked if we chose the treat, neither seems a good outcome to me and I'd rather not make any choice to avoid a bad outcome.

In my opinion, there's something downright un-American about "tricking" anyone and I refer to the quote at the bottom of the page. Engineers are highly educated and the public expects a higher degree of integrity and expertise from those under the umbrella of "engineer." It's important to the integrity of the industry and our livelihood that we truly understand our profession and that we not stoop to just accumulation of the tricks of the trade. These tricks make our businesses more profitable by keeping cost down but it does not serve our customer, the general public, if we, who are the keepers of "trade", do not understand the science and technology behind the trick well. Support ASHRAE and learn the trade.

Happy Halloween!

Kevin Saito, P.E. LEED AP

Send your literary contributions to kevin.saito@trane.com



"Don't waste time learning the tricks of the trade. Instead, learn the trade."
- Anonymous Trade Quote

Student Activities Committee

In August I spoke to Joseph Ting's ME 417 class about the advantages of being involved with ASHRAE both from a professional and student standpoint. Many students in the class were very aware of the fact that the HVAC industry is very relevant in Hawaii and that having some HVAC background puts them at an advantage when seeking a job.

Several of Professor Ting's former students also spoke about how ASHRAE helped them in terms of networking and gaining insight into the HVAC industry here.

The Honolulu Community College (HCC) Student Advisor, Derek Oshiro and two of students also attended our first meeting in September. The students really enjoyed themselves and plan to attend future functions.

Our first field trip will be a tour of the John A. Burns School of Medicine (JABSOM) central plant and Research Building mechanical room. It is being held on October 21st at 9:00 am and students from both the UHM and HCC Student Branches will be attending. We are seeking the donations your old ASHRAE Fundamentals Handbooks for use by the students. If you are interested in donating your handbooks please contact me.

Thank you,
Alayna Shima



Programs:



Do's and Don'ts Speaker Mr. Rafael Sabia talks with Chapter Member Min Zhong, P.E. about air control valves.



Product Show:

Members of the Hawaii Chapter,

March 11, 2011 has been reserved for the Product Show. The contract has been signed and plans are been finalized for the technical sessions. As per membership request, the Product Show will be held such that there can be more interaction

time between vendors, manufacturers and members attending. The current plan is to hold the Product Show between 11AM-2PM. Please think of who you would want to participate in this super Product Show. Emerson Network Power/Liebert has already committed to supporting our Research Promotions efforts. I challenge others of you to participate so you won't miss out on this great opportunity!!!

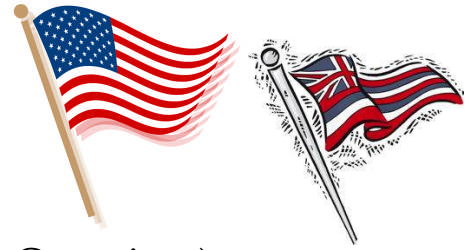


Aloha

Donna Kishi



Government Affairs:



HC President Michael Chang invited REP Hermina Morita (Chair, Energy & Environmental Protection Committee), SEN Mike Gabbard (Chair, Energy and Environment Committee), Carlito Caliboso (Chair, Hawaii Public Utilities Commission), Leslie Konda (Commissioner, Hawaii Public Utilities Commission), John Cole (Commissioner, Hawaii Public Utilities Commission), and Ted Peck (Hawaii State Energy Administrator) to meet with Chapter and Society members to discuss ways ASHRAE can assist with the State of Hawaii Clean Energy Initiative goals. Due to scheduling conflicts, only PUC Commissioner Cole, Ted Peck, Wendy Takanishi (PUC Economist), and Howard Wiig (State of Hawaii Department of Business, Economic Development and Tourism Energy Analyst) could attend the meeting. In attendance for ASHRAE were Dr. William Bahnfleth P.E. (Society Vice President), Michael Chang (Chapter President), Paul Scott (Chapter President-Elect), Barry Jim On P.E. (Chapter Government Affairs Chair), Joseph Ting, P.E. (Chapter Historian), and Dean Borges P.E. (Chapter member). At the end of the meeting, it was agreed that ASHRAE could provide valuable assistance and both Chapter and Society pledged to help.

As you may know, the mission of the HCEI is to “transform Hawaii into a world model for energy independence and



sustainability: and the goal “is to meet 70% of Hawaii’s energy needs with clean energy by 2030. To reach our goal, we must focus on two things: reducing our energy use through energy efficiency and developing our indigenous, renewable energy sources.”

Read more on ASHRAE’s Energy Position on the Hawaii Chapter web page.

Technical Seminar and Product Show

When: March 11, 2011 (Friday)

Where: East West Center

Hawaii Imin International

University of Hawaii, Manoa Campus

Address: 1777 East West Road

Honolulu, HI 96848

www.eastwestcenter.org

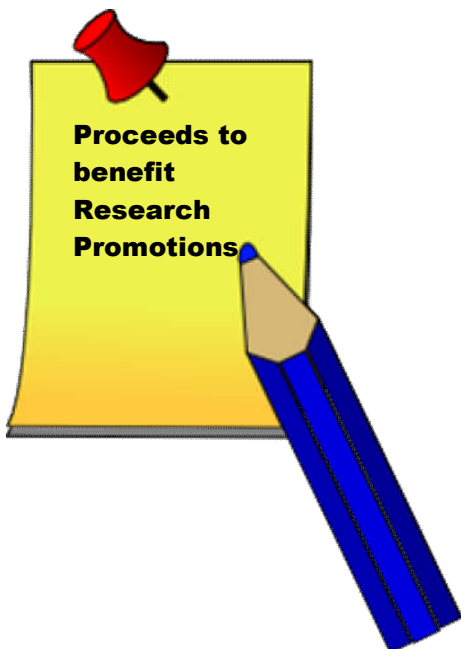
Technical Seminar: \$125/member, \$150/guest, \$175 at the door

Product Show: Free Admission

Product Show Booth: \$600/booth, \$1100/two booths, \$1400/three booths

Contact: Donna Kishi (armi@hawaii.rr.com phone:676-3700 for Product Show)

Dr. Melek Yalcintas, P.E. (melek@ameltech.com phone: for Technical Seminar)



Technical Seminar

The main topic of this year's Technical Seminar will be HVAC controls and the integration of commissioning and testing and balancing (TAB.) Please contact me at melek@ameltech.com to volunteer as a speaker or to suggest a topic.



Membership Promotion

Aloha ASHRAE Members,

Our next ASHRAE Hawaii Monthly Meeting is scheduled for October 14, 2010 Thursday 5:30 pm at Willows. This meeting is themed Membership Promotion Night to emphasize membership and how it plays a vital role for our Hawaii Chapter.

I am calling on everyone to kokua and refer a fellow colleague or friend to attend our MP Meeting on October 14. If you refer anyone who is not already a member to attend this meeting you will receive one free movie ticket and if this person becomes a member you will receive another movie ticket. You probably already know someone that wants to join so this is a good time to get this person to our meeting.

Thank you,
Roland Suzuki
Membership Promotion Chair
<mailto:roland@heide-cook.com>



Chapter Technology Transfer

Please feel free to contact me
ESIKAILUA@aol.com if you have any issues
pertaining to chapter programs, technology,
energy, refrigeration and governmental affairs
that need my attention immediately. **Otherwise,**
contact the following chairperson for the various sub-committees:



1. Chapter Programs Chair Blake Araki - blakea@hawaii.edu
2. Technology Chair Herman Siu - hsiu@trane.com
3. Energy Awards Chair William Lee – leeb@coffman.com
4. Refrigeration Chair Scott LaBeau - scott.labeau@dmghvac.com
5. Governmental Affairs Chair Barry Jim On -
bjimon@insynergyeng.com

Let us know if you have any technical subjects that we should consider for
our monthly meetings.

Mahalo. *Scotty.*



Historical Committee Chairman: Joseph Ting, P.E., P.Eng., CxA

Reno, Nevada: On August 26-28, 2010, the chapter delegation consisting of Michael Chang, Paul Scott & his wife (Linda), Albert Hahn, Joseph Ting, Alayna Shima,

Figure 1: DRC Conducting CRC Meetings



Roland Suzuki and Marites Calad participated at

CRC 2010 in Reno, Nevada.



CRC stands for Chapter Regional Conference. Albert Hahn (delegate) or Michael Chang (alternate) represented our chapter at this conference and reported to the chapter and Board of Governors at the first chapter meeting held



Figure 2: Albert Hahn Accepting 2009-10 Award from Tom Watson

at The Willows on 9/9/10. They maintained as our liaison between the chapter and the Regional Chair, as well as other chapters.

Figure 3: Joseph Ting Accepting 2008-09 Award from Tom Watson



Historically, Region X CRC was held in the Spring (around May). As CRC 2010 was held for the first time to be in the Fall, two of our chapter past presidents [Joseph Ting (2008-09) & Albert Hahn (2009-10)] attended the the Fall CRC in August to accept their achievement awards & those of their respective chairpersons thus bringing back home to Honolulu an enormous amount of plaques and certificates. Refer to the list of recipients & awards.

A. Society Year 2008-09:	
RECIPIENTS	AWARDS
1. Joseph Ting	PAOE, Sustainable Activities, High Honor Roll, Special Citation, Star Award ASHRAE Hawaii Chapter – Region X PAOE Award Giovanni K. Chung CRC Man-Mile Attendance Award for CRC 2009
2. Marites Calad	Research Promotion – Gold Treasury Ribbon (2008-09 Chapter Investor), Full Circle Award Research Promotion – Region X RP Award
3. Min Zhong	Membership Promotion – 2nd Place
B. Society Year 2009-10:	
RECIPIENTS	AWARDS
1. Albert Hahn	PAOE, Sustainable Activities, Honor Roll Giovanni K. Chung CRC Man-Mile Attendance Award for CRC 2010
2. Paul Scott	Research Promotion – Silver Treasury Ribbon (2009-10 Chapter Investor), Full Circle Award
3. Mofazzal Mir	Membership Promotion – 1st Place
4. Paul Fukunaga	Student Activities – 1st Place
5. Joseph Ting	Chapter History – Highest Average PAOE for 3 years



Figure 4: DRC with Chapter Members (L to R) - Linda & Paul Scott, Roland Suzuki, DRC Jack Zarour, Joseph Ting, Marites Calad, Albert Hahn, Alayna Shima & Michael Chang

Figure 6: Marites Calad Accepting Award from Tom Watson



Figure 5: RVC SA Karine Leblanc Presenting Award To Joseph Ting



Figure 7: RVC RP Tiffany Bates & DRC Jack Zarour Presenting Award to Paul Scott

6. William Lee & Louis Cheng	Technology Award – Punahou Case Middle School
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At this meeting, the Chapter requested and was granted to host the CRC in Honolulu in the Fall of 2014. The Chapter also requested to host the Society Annual Meeting in Honolulu during the Summer of 2020. If granted, it should coincide with the celebration of our Chapter’s 50th Anniversary as well as the celebration of the Society’s 125th Anniversary.

Honolulu, Hawaii: On September 9, 2010, the chapter held its first meeting for SY 2010-11 and the Society Vice President William Bahnfleth came as a Distinguished Lecturer to present the “Variable Primary Flow Chilled Water Pumping” at our Main Program session held at The Willows.



Figure 8: VP William Bahnfleth at The Willows

Prior to his presence at our meeting, Bill Bahnfleth provided a lecture at UHM Seminar entitled “Energy Efficient Building Technologies”, which was co-sponsored by UH Renewable Energy & Island Sustainability (REIS)

center, College of Engineering, and School of Architecture. It was well-received by students, faculty & REIS community.

Figure 10: UHM ME Chairman & Students



Figure 11: UHM Engineering & Architectural Students



Before the Main Program started, PP Joseph Ting and PP Albert Hahn presented the awards to their respective chairpersons, who served in their presidencies.



**Figure 12: Paul Fukunaga
Accepting SA Award**

Figure 13: Min Zhong Accepting MP Award



**Figure 14: Joseph Ting
Accepting Historical Award**



Figure 15: Society VP & Hawaii Chapter Leaders (L to R) - PP Joseph Ting (2008-09), Michael Chang (Current President), PP Victor Russell (2004-05), Society Vice President William Bahnfleth (2010-11), PP James Gough (1990-91), PP John Gesser (1975-76)