

ASHRAE

Hawaii Chapter

HE EA MAKAMAE

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

SY 2008-09, Issue #4 HONOLULU, OAHU, HAWAII November 2008

DECEMBER DINNER MEETING

PAST PRESIDENT/RP NIGHT/X'MAS PARTY

Thursday, December 11, 2008

**Main Program: InSynchronization of MEP Engineering in D&C
Christmas Party for Members, Families (Keikis) & Friends**

5:30-6:00 PM	Registration
6:00-7:00 PM	Main Program (Kapaakea Room)
6:00-7:00 PM	Keiki's picture-taking with Santa Claus (Courtyard)
6:30-7:30 PM	Attitude Adjustment (Open bar - 2 drink tickets)
7:00-8:30 PM	Christmas Dinner & Festivities (Kapaakea Room)

REGISTRATION: RSVP Kevin Saito kevin.saito@trane.com and remit payment to ASHRAE Hawaii Chapter, P.O. Box 3916, Honolulu HI 96812-3916 by December 4, 2008. Otherwise, for expedient registration, remit payment via "PayPal" by clicking <http://hawaii.ashraechapters.org>.

RSVP (Pre-registration): All pre-registrants (show or no show) will be billed accordingly.

ASHRAE Hawaii Chapter Past President - Free Admission
Member, Spouse or Significant Other: \$40 per person
\$20/child (10-17 years); Free admission (keiki under 10 years old)
Non-Member of the above organizations: \$45 per person

No RSVP (Registration on-site):

Regardless of Members or Non-Members: \$50 per person

MAIN PROGRAM:

*InSynchronization of MEP
Engineering in Design &
Construction*

This month's main program will feature a panel of speakers from the HVAC&R industry.

Our ASHRAE Hawaii Chapter past president (2001-02), David G. Waller, P.E. will moderate the session consisting of four (4) speakers, who will provide us their perspectives of how to effectively synchronize the MEP (mechanical/electrical/plumbing) engineering in design and construction. They will describe the importance of why "MEP insynchronization" is needed to provide the deliverables to our clients.

Paul Fukunaga, P.E. and Ross Okuda, P.E. are mechanical engineers, while Rick Moss, P.E. and Gene Albano, P.E. are electrical engineers.

Essentially, the panel of speakers will speak on three (3) major topics, which require special attention.

The first & foremost topic is the impact of HVAC equipment load on total electrical load. Regardless of new or renovated buildings, the HVAC equipment is a significant portion, if not, the largest portion of the total electrical load.

DIRECTIONS TO THE WILLOWS

901 Hausten Street, Honolulu (Phone: 952-9200)

FROM DIAMOND HEAD (Westbound): Take H-1 and exit at Kapiolani Blvd cut-off. Go past University Avenue & turn RIGHT at Hausten Street.

FROM EWA (Eastbound): Take H-1 and exit at Isenberg Street cutoff. Turn LEFT on King Street and take the 2nd RIGHT into Hausten Street.

The second topic is the routing coordination of the ducts/pipes with the routing of the conduits/cable trays. The space above the ceiling is typically where the ducts, pipes, conduits and cable trays are routed. This space is defined by the ceiling height and floor-to-floor height, which are pretty much set by the architect and ultimately set by the project budget. In addition to those constraints, the structural elements compound further the challenge, as they usually take up some of the space and most instances, block the direct routes.

The last topic is the specification of the low voltage power for HVAC controls & instrumentation as well as the Motor Control Center (MCC). The locations of the controls equipment and the power requirements for the controls/instrumentation are basically determined by the mechanical engineer. Nonetheless, the 120/1/60 electrical power source for the controls & instrumentation is specified by the electrical engineer. The MCC provides an efficient means of consolidating the starters for all major mechanical HVAC equipment. The said equipment does not usually come with an integral motor starter. That said, the mechanical engineer is usually responsible to specify these field-mounted motor starters, which include the type of starter and all accessories such as relays, push buttons, indicating lights and other devices to meet the sequence of operation. The electrical engineer is ultimately responsible to provide electrical power to the MCC.

David G. Waller, P.E. is currently the Vice President, Customer Solutions for **Hawaiian Electric Company, Inc.** from Pacific Resources, Inc. He 1989 as Director, Fuel Resources. Marketing Department as Services and was named Manager Department in 1999. Dave holds a Chemical Engineering from Rose-Technology and a Master in Administration from the University of Hawaii. Prior to joining HECO, he held technical and managerial positions with Amoco Oil Company, Petro-Canada, and Pacific Resources. While serving in the U.S. Air Force, he worked as a Russian Linguist.



Dave came to HECO first joined HECO in In 1992, he joined the Director, Technical of the Energy Services Bachelor of Science in Hulman Institute of Business University of Hawaii.

Dave is a member of the Board of Directors for the Armed Services YMCA, the Community Board of the American Heart Association and the University of Hawaii Sea Grant Advisory Council. During his free time, he enjoys sailing, jogging and playing golf.

Paul Fukunaga, P.E. is the Senior Vice President of **Thermal Engineering Corporation** (TEC). for Rockwell California, the Pearl Pearl Harbor Public of the University of and a MSME degree engineer in California, Commonwealth of



Prior to joining TEC, he worked International in Canoga Park, Harbor Naval Shipyard and Works Center. He is a graduate Hawaii with a BSME degree and is a registered mechanical Hawaii, Guam and the Northern Mariana Islands.

Paul has been involved in designing and construction of mechanical systems for industrial plants, commercial and institutional buildings for over 32 years. During his 24 years with TEC, he has been the principal-in-charge of several federal, state, county and privately-owned projects including the John A. Burns School of Medicine facility in Kakaako, Konawaena Elementary School, Kapolei Middle School and Kapolei High School.



Ross Okuda, P.E. is the President of **Mechanical Enterprises Inc.**, which was established in September the University of Hawaii Bachelor of Science in 1997 he became a licensed State of Hawaii. In 2001, Protection license in the currently serving on the and Landscape Architect of Hawaii.



Ross graduated from at Manoa in 1992 with a Mechanical Engineering. In Mechanical Engineer in the he also obtained a Fire State of Washington. He is Engineer, Architect, Surveyor Licensing Board for the State

Rick Moss, P.E. is the president of **Moss Engineering, Inc.**, a consulting electrical engineering firm specializing in design and consultation relative to the various electrical and specialty architectural lighting systems associated with Hospitality, Retail, Commercial, Residential, Institutional and Governmental facilities. He is licensed in the State of California, Oregon, Washington, Nevada, Guam

Rick was raised in Petaluma, a small town just north of San Francisco. In 1968, after listening to too many 60's surf way too many Elvis Presley Hawaii to surf and attend way through the University of "Psychiatric Assistant" in the Medical Center which not only personality, but allowed him to Science in Electrical 1972 and his Master of Business



songs and watching movies, he moved to college. He worked his Hawaii as a Psychiatric Ward of The rounded out his obtain his Bachelor of Engineering at UHM in Administration in 1973.

Rick has more than 30 years experience as a consulting electrical and lighting engineer and was the Electrical Engineer responsible for the electrical systems design of many prominent Hawaii projects including *Keola La'i Condo, The Guam High & Middle Schools, Capitol Place, Lanikea at Waikiki, Waikiki Beach Walk, The First Hawaiian Center, One Archer Lane, Victoria Ward Theaters, BMW of Honolulu, The Festival Marketplace at Aloha Tower, Harbor Court, Honolulu Park Place, The Manele Bay Hotel, The Lodge at Koele, The Hyatt Regency at Waikoloa* and numerous projects ranging from small to large.

Gene Albano, P.E. joined **Lincolne Scott, Inc.** in 2006 and is Vice President of the Honolulu Office. Gene California State University Long of Science in Electrical licensed in the State of Hawaii Accredited Professional and an Council certified Electrical Plans member of US Green Building Code Council, Illuminating North America and Building Service International. In June to serve as Communication Chair for ASHRAE Hawaii Chapter.



graduated from Beach with a Bachelor Engineering. He is and California, a LEED-International Code Examiner. He is a Council, International Engineering Society of Industry Consulting 2008, he was appointed

Gene has extensive experience in building services design and project management of various facilities throughout the Pacific region that include projects for the State of Hawaii, the Corps of Engineer and Naval Facilities Pacific and Hawaii.



DO & DON'T TECHNICAL SESSION:

This session will resume in
January 2009

"DO & DON'T Technical Session will be held monthly. To the other product manufacturers or service companies, who are interested to conduct this session, make your reservation with Kevin Saito. Cut \$250 check and make it payable to ASHRAE Hawaii Chapter. Send it to P.O. Box 3916, Honolulu HI 96812-3916. Otherwise, remit your payment via PayPal.

Go to our chapter website at www.hawaii.ashraechapters.org.

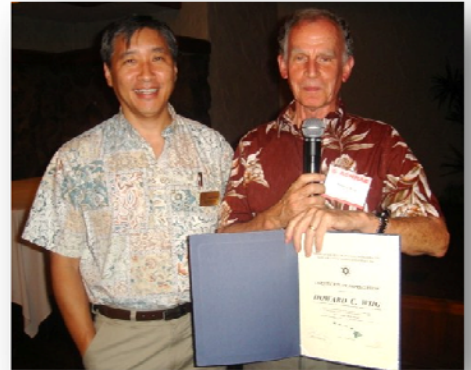


President's Message – Joseph K. Ting, P.E.

Our November 13th meeting (Students Night) drew a crowd of more than 40 ASHRAE members, friends and students. The Hawaii Chapter is blessed to have DBEDT Energy Analyst Howard Wiig provide us a rundown of the State of Hawaii's mandate on energy issues. On 10/17/08, Governor Linda Lingle signed a Memorandum of Understanding with the U.S. Department of Energy and Hawaiian Electric Industries, which includes as follows:

- To reduce Hawaii's fossil fuel use by 70% prior to 2030
- To alter the electric utilities' business
- To aggressively develop clean energy sources

Realizing that the State of Hawaii is one of the few remaining "home rule" states wherein every county adopts its own codes, the Hawaii Building Codes Council was created in 2007 by the State legislators to swiftly revise the Hawaii Statutes 107-Part II. Its purpose is to adopt statewide the International Building Codes "suite of codes" including IECC (International Energy Conservation Codes). As such, the newly-adopted energy codes would perhaps be the most cost-effective path in reducing costs and moving us closer to energy independence. Our chapter PP Joel Yuen, P.E. thanked DBEDT Energy Analyst Howard Wiig for a timely technical presentation to keep everyone abreast of the governor's direction towards an energy independent state.



Our chapter PP Boyd Chee thanked the technical session's speaker Dave Campbell for providing us an informative & educational presentation on the DO & DON'T for Mechanical System Layout. Listed below is the summary of his talk:



Dave introduced briefly his company, Anvil International and moved on to discuss the "groovy" side of mechanical piping system layout. When should a designer decide "to groove or not to groove" the mechanical piping system? If the system would be upgraded, it should be grooved. It would then shorten the changeover time. It appears that grooving a pipe would save at least 2 to 2.5 times in term of installation hours when compared to welding a pipe depending on the size of the piping. In term of installation costs, it seems that it would cost less by a factor of 2 to 2.5 times depending on the piping size. Small pipe sizes (5" or smaller) would probably have minimal savings, nonetheless, large diameter piping would have tremendous savings. For more information on this subject matter, email Dave Campbell at dcampbell@anvilintl.com or Mike Gray at mgray@anvilintl.com.

Prior to the closing of our 11/13/08 monthly meeting, our Student Activities Committee Chairman, Paul Fukunaga won the RP 50/50 Raffle \$80 pot. He donated his \$40 share back to the Chapter. We thanked him for his generosity.

Moving on to the upcoming event, December 11th has been designated as Past President Night as well as Research Promotion Night. We do hope that our past presidents will make an effort to participate at this special occasion to greet our new members and join us to celebrate the Christmas Party with the children from the HVAC&R community.

Refer to the attached flyer for more information pertaining to the Christmas Party. Should you like to be a sponsor for the door prizes, you can bring them to The Willows and let Albert Hahn ahahn@douglasengineering.com know what you are bringing so that the Chapter can properly recognize you and your company for your donations. Otherwise, you can also send your contributions via mail or remit via our Chapter website provided under "Special Event – Christmas Party".

We look forward to have you participate at the crossfire discussions pertaining to the "InSynchronization of MEP Engineering in Design & Construction". The panel of speakers is featured as described above. As this type of venues is very popular to our Chapter



members, make your reservations to attend these multiple events (Great Technical Program, Christmas Party, and Past President Night), so that you won't be disappointed if all seats are taken.

To top off these events, you will get to meet some dignitaries from our region. Come and meet our special guests for the evening: Santa Claus from the North Pole, and two regional officers from Region X. Please join me to welcome our DRC (Director & Regional Chairman) Jack Zarour, P.E. from San Jose, California, and our RVC (Regional Vice Chair) Research Promotion Tiffany Bates from Phoenix, Arizona.

On behalf of our chapter members, have a Happy Thanksgiving and see you all at the Christmas Party!

ASHRAE HAWAII HOLIDAY PARTY

Thursday Dec. 11, 2008 at the Willows



Dinner and 2 drinksDoor Prizes***

\$40 ASHRAE members and spouses or significant others

\$45 non-members

\$20 children 10 -17 (under 10 free)

Complimentary to all Past Presidents

Program:

5:30-6:00 Registration

6:00-7:00 Technical Program

6:00-7:00 Keiki picture with Santa

7:00-8:30 Dinner

RSVP with payment by Dec.4th to
Albert Hahn 524-2434 ext 121
ahahn@douglasengineering.com

Please specify your children's name, age & gender for a Special Gift from Santa!

CHAPTER PROGRAMS – Kevin Saito, P.E.

Fellow ASHRAE members, we survived the longest and, in my opinion, most interesting Presidential election cycle in recent times! We see and feel the current economic challenges that face not only our country but our state and industry as well. How all this plays out has yet to be written but we do know we can face these and other challenges only if we understand the issues, increase our knowledge, and apply successfully the lessons learned. This is the challenge we face as the premier mechanical engineering professional society, so I urge you to take advantage of the great programming your Chapter has set up for you to help you not only survive but to thrive in the challenging times to come.

In the upcoming months, you'll have the opportunity to hear from experts in their fields on topics such as biofuels, district cooling, chilled beams, dedicated outdoor air systems, dehumidification systems, and low temperature, high efficiency systems. Don't forget the highly anticipated Technical Seminar that's coming up in February and promises to be interesting and valuable to anyone involved in owning or maintaining facilities. With great speakers from all sectors, this technical seminar is not to be missed and will not be forgotten soon. All this will help not only your customers but your company as well. Have a safe and Happy Thanksgiving. See you at the December Chapter Meeting!

HISTORIAN – Harendra Panalal, P.E.

The two boxes of ASHRAE historical records have been scanned and burnt on CD. Many files from our current website are also included on this CD. At the upcoming Past President Night on 12/11/08, a copy of this CD will be distributed to all past presidents who have not had a chance to pick it up from Harendra. We would request those past presidents, who have not completed their brief report to prepare one by using the 'Historical Template' available in MS Word format included in the said CD. If anyone would have any records from 1977 to 1988, please contact Harendra.

HONORS & AWARDS – Samuel Gillie, P.E.

Last year when I was President, I asked Fred Kohloss to give us his Senior Moment. Fred is a past President of the Hawaii Chapter, and Past Society President of ASHRAE. He was honored as Hawaii's Engineer of the Year by HSPE (Hawaii Society of Professional Engineers) and also HCES (Hawaii Council of Engineering Societies) Lifetime Achievement Award. He started Fred H. Kohloss and Associates in 1961, which was the leading HVAC consulting firm in Hawaii for forty years. Fred and his wife Peggy were fixtures at ASHRAE meetings for thirty years.

Fred Kohloss' Senior Moment:

When you are 85, you have a lot of memories. Some of my most treasured memories are of ASHRAE.

I came to Hawaii in 1955. I had attended the University of Maryland and was in the ROTC, when the U.S. Entered World War II. I received a B.S. in Mechanical Engineering in January 1943 and after officer Candidate School was commissioned a lieutenant in the Army Corps of Engineers. I served in the 125th Armored Engineer Battalion of the 14th Armored Division.

In 1944, I made the best decision of my life. I married Peggy just before I went overseas. Our division fought in France

and Germany. After the German surrender, I joined a construction battalion in England. We sailed to the Philippines and constructed barracks for the Air Corps and after Japan's surrender, I sailed to Yokohama. We performed air base maintenance at Tachikawa and Yokota



Air Bases. In 1946, I returned to Seattle and was relieved from Army active duty at Ft. Meade, Maryland. And, I met my year old daughter Margee for the first time.

With the help of the G.I. Bill I attended George Washington University's Law school at night to study patent law. But, I had to have a job to support my growing family, so I taught engineering at G.W.U. in the daytime while going to Law School at night, starting in 1946. I graduated in 1949 with a J.D., but had found I didn't like patent law.

As instructor, later assistant professor, I taught courses in thermodynamics, and, HVAC&R (heating ventilating air conditioning and refrigeration). I joined ASHRAE's predecessor society A.S.R.E in 1949. In 1949-1950, I took graduate mechanical engineering courses at the University of Maryland evenings and weekends. The University of Delaware offered a resident summer program in 1950 which with my Maryland credits, would leave me only to complete a thesis for a master's degree. Delaware let me prepare my thesis while back at GWU teaching in 1950-1951. Titled "Design and Performance of Evaporative Refrigerant Condensers", it was accepted and I received the Master of Mechanical Engineering degree in June 1951. All this study was also on the GI Bill.

My family had grown by the addition of daughter Charlotte and Eleanor, so in 1951, I took a job as chief engineer of Griffish Consumers Co. an air conditioning contracting firm in Washington, D.C., which represented Worthington. Carrier and York were not only manufacturers but were installing contractors. Worthington did no installation, so frequently we competed with Carrier and York, using Worthington equipment. From 1951 to 1954 I designed and we installed projects including the Washington Hotel, the American Chemical Society building and TV station WTTG.

The Cleveland Worthington distributor, Avery Engineering was headed by engineer Lester Avery, who had been installing air conditioning since the 1930's and had been president of ASHVE, the other ASHRAE predecessor (He made me join ASHVE on my arrival in Cleveland). Lester enticed me to Cleveland by a big salary increase (to \$8,000 a year) to be his chief engineer. So we moved to Cleveland in 1954. I liked the company and the city, but daughter Eleanor became severely asthmatic. Our doctor said if you want this kid to survive move to a warm climate.

So I put a classified ad in engineering magazines, and Harold Heide came to Cleveland and hired me in the fall of 1955. The family thrived in Hawaii. Heide and Cook had the Hawaii York franchise, and Joe Tanaka and Gil Salfen had joined the firm when Harold Heide and Jack Cook were two honorable and competent plumbers, and I learned a lot about plumbing while working there.

Hawaii architects and engineers were losing large island design jobs to mainland firms. Bob Belt of Belt Collins Civil Engineers organized a partnership: Belt Lemmon and Lo, whose partners included Lemmon, Freeln and Haines (now Architects Hawaii), Don Lo, a structural engineer and Wynn Nakamura, an electrical engineer. Bob Belt approached Frank Montgomery to setup a partner mechanical firm. Frank didn't want to leave Hawaiian Electric, so he and I set up Montgomery & Kohloss. I was full-time and Frank was part-time with the firm. HECO kept promoting Frank, so he never left. After four years, I gave him one year's notice of my intent to start my own firm, and he brought in Nels Soderholm to replace me. Nels later added Lars Sorenson as a partner. I did the preliminary mechanical design of the State Capital before leaving. While with Montgomery, I taught thermodynamics at the UH engineering school. Later Jimmy Chou did an outstanding job teaching there and supporting ASHRAE.

Fred H. Kohloss and Associates opened in 1961. I had made many friends in the design and construction field in my six years in Hawaii, and I had been attending ASRE and later ASHRAE society meetings on the mainland. Through mutual friends, I became acquainted with Melbourne Australia architect John Buchan, visited Melbourne and did some design work there in 1962. In 1963 I set up a branch (actually a separate company) in Melbourne, and my senior associate, Dick Hughes, moved to Melbourne to run it. I made frequent visits, and actually owned an apartment there for over twenty years. Australian engineer Trevor Tiller and later David Bibby ran the branch, and both also work in Honolulu and Dave also in Tucson. Both became active ASHRAE members. Dick Hughes returned and worked many years in the Honolulu office and later in the San Francisco office until he retired. Honolulu staff (all ASHRAE members) at times included Tsukasa Mukai (now in Hilo), Randy Murayama, Tom Pressler, Rich Rauls, Kenneth Thom, Mike Langer, and for the longest tenure Primo Pablo. Mike Hattori was a key associate for many years before opening his own office. I'm proud that we had an "ESOP" plan in which all employees (after one year's service) shared all the company profits. After five years employment an employee's share was fully vested.

In Hawaii, we got a lot of help from manufacturer's reps. Initially, there weren't very many but I recalled Von Hamm-Young, Lever & Cooke, and Honolulu Iron Works. Contractors, Air Engineering (Carrier), Heide & Cook (York), and Oahu Plumbing (Worthington, later Trane) had available application data on their products. Van Darron, Norm Baxter and Lester Son, respectively, were engineers at the above contracting firms. Later, we did a lot of jobs with Continental Mechanical, whose Dick Dearing, Bob Seelman and Sam Fujikawa, were all ASHRAE stalwarts and a pleasure to deal with. Carrier Hawaii became the domain of John Arizumi who has been a pillar of strength for ASHRAE and the engineer and contracting community. Trane opened their own place and for the past 30-plus years, Bob Hann has been an outstanding representative who has given great support to ASHRAE. In the controls field, John Gesser for Johnson followed a Honeywell office, and became an ASHRAE fixture. With the help of all the above, Hawaii ASHRAE members plus engineer Bob Hamilton, the Hawaii

ASHRAE chapter was chartered in 1969. A fire engineer Giovanni Chung, died tragically in a Manila hotel fire. Giovanni spearheaded getting my name into the ASHRAE society nomination process which culminated in my society Presidency in 1986.

Our firm had branches, also for a number of years in San Francisco and Denver, as well as shorter-lived ones in Cleveland, Guam and Phoenix. In the 80's we started closing branches as I gave thought to retiring. By 1990, we had only the Honolulu office. In 1991 my friend Alan Scott, ASHRAE member, who headed the very large successful Australian firm of Lincolne Scott, came through Honolulu and invited me to join him for a drink. He was looking to buy a U.S. engineering firm. He and I worked out a deal. We would form a new Hawaii firm, Lincolne Scott & Kohloss, that would be a Lincolne Scott subsidiary. He would purchase the Kohloss firm's assets from me. I would remain head of the new firm, with a minority ownership, our employee's would receive their ESOP money. Alan would bring in engineers from his firm and would gradually phase me out. Three Australian engineers, Mike Suttie, John Whitmore and John Fyfe (all ASHRAE members) headed the firm with my assistance until 2001, when they didn't need me anymore. The office, now Lincolne Scott is headed by Scott Inatsuka, a good engineer and ASHRAE member, with a convenient first name.

By 2001, my Peggy was in the early stages of Alzheimer's. In late 2002, we moved to a retirement facility in Tucson where she receives excellent care. We chose Tucson because our daughter Eleanor and granddaughter Margaret Anne and her husband live here, the weather is pleasant, the facility is excellent, and the city is familiar. I don't do design but I have been a consultant on a few Hawaii contract disputes. I do miss Hawaii after 47 years.

I'm pleased that by the efforts of people like Joseph Ting, Eric Nakagawa, Sam Gillie and Ken Richardson, and many others I didn't mention, ASHRAE Hawaii continues to flourish.

Fred Kohloss

RESEARCH PROMOTION – Marites Calad

Hawaii RP Goal this year is \$15,000.00. As of November 25, 2008, we have received a little over \$2000 which brings us to 13% of goal. Special thanks to following who donated **\$100 or more**: Beall & Associates; Tsukasa Mukai; Archie Murakami; Lloyd Funada; Dr. Kan-Ichi Hayakama; Alan Lloyd; Dicson Aggabao; Prepose Engineering; Albert Hahn; Paul Fukunaga; Sam Fujikawa. *Your generosity is much appreciated.*

Our immediate goal is to achieve Full Circle. A friendly reminder to all current officers, please send your \$100 (or more) donation by December 15, 2008. To all members, contributions can be done thru the ASHRAE website. Otherwise, make the check payable to ASHRAE Hawaii Chapter RP Committee & mail to: ASHRAE Hawaii Chapter, c/o Marites Calad, P.O. Box 3916, Honolulu, HI 96812-3916.

We appreciate everyone's help in meeting our goal. Happy Thanksgiving to all!

STUDENT ACTIVITIES – Paul Fukunaga, P.E.



The Holmes Hall tour with the University of Hawaii at Manoa (UHM) ASHRAE student members was completed on November 6, 2008. Approximately eight (8) students attended as well as Joseph Ting, Kevin Saito and Paul Fukunaga. A short



presentation to explain the Holmes Hall air conditioning system and the equipment that would be seen was provided before starting. Kyle Arakaki from UHM Facilities provided access to the rooftop mechanical penthouse and escorted us throughout the tour.

The UH JABSOM tour with the Honolulu Community College (HCC) ASHRAE students was also completed on November 19, 2008. Approximately 19 students attended as well as Derek Oshiro (HCC professor), Joseph Ting and Paul Fukunaga. Francis Blanco and Bob Dang from JABSOM and Rob Lerseth from City & County of Honolulu Board of Water Supply accompanied us on the tour and answered questions on the systems. Judging from the technical questions that were asked, the students were interested in seeing the equipment they were learning about. A letter of appreciation will be sent from ASHRAE Hawaii Chapter to UHM Facilities, JABSOM and BWS for their assistance and donating their valuable time.



The students in Professor Joseph Ting's Applied Thermal Engineering course (UHM Course ME 417) will be participating in the 2009 ASHRAE Student Design Project Competition. This worldwide competition requires the students to design a HVAC system for a 3-story office building located in Nashville, Tennessee.

The students may be calling some of the local air conditioning equipment suppliers for information on their equipment including pricing or asking questions to engineers at the companies where they intern. Let's help these aspiring mechanical engineers with their project and encourage them to pursue a career in the air conditioning and refrigeration industry.



BOARD OF GOVERNORS' MEETING MINUTES – 10/21/08

1. Meeting called to order by Joseph Ting at 11:45 AM.
2. Attendees - Joseph Ting, Albert Hahn, Tyson Toyama, Michael Chang, Paul Fukunaga, Harendra (Henry) Panalal, Min Zhong, Patrick Yen, and Mike Mucha.
3. The 9/25/08 meeting minutes was moved to be accepted by Tyson, seconded by Henry, and unanimously approved.
4. Unfinished business - None
5. Treasurer - Michael Chang
 - Michael reported the approximate balances in the Bank of Hawaii and the Merrill Lynch Accounts.
 - It was shared that the Merrill Lynch Account was reportedly created many years ago with the intent to temporarily park extra money that the Hawaii Chapter had. This is contrary to the popular belief that the account was created with the intent of scholarships.
 - There was some discussion regarding the future fate of the Merrill Lynch account and whether the money was safe in spite of the recent economic turmoil. It was determined that the money was fairly safe but that perhaps it should be relocated to Bank of Hawaii to simplify book keeping for future chapter treasurers. Albert proposed a motion that the ASHRAE Hawaii Chapter funds with Merrill Lynch be transferred to a similar account with Bank of Hawaii, Michael seconded, and the motion was approved with one abstaining.
6. 2007-2008 Tax Filing - Tyson Toyama
 - Tyson reported that he would start working on it this weekend and would try to meet the November 15, 2008 filing deadline.
 - Joseph revisited and shared with the group the purpose of filing taxes.
7. Articles for newsletter need to be submitted soon.
8. October 8, 2008 Meeting - Min Zhong reported that approximately 35+ people attended the member meeting at the Willows.
9. Future Program Topics - Albert Hahn reported that the results of a survey from the first meeting will be used to select program topics for the upcoming January ~ May member meetings.
10. Upcoming November Member Meeting will focus on Student Night.
11. Upcoming December Member Meeting / Christmas Party - Joseph Ting
 - The December meeting will start with a short technical seminar and will be followed immediately with a family (ohana) style Christmas Party.
 - The technical seminar portion will focus on "InSynchronization of MEP Engineering in Design/Construction" and will feature four local prominent engineering speakers (2 mechanical and 2 electrical) with a moderator from utility company.
 - The Willows meeting room has a seating capacity of 120.
 - Albert was appointed the Christmas party chair.
 - Two ASHRAE Region X officers will be in attendance – RVC Research Promotion Tiffany Bates & DRC Jack Zarour.
12. Past President Write-up - Harendra Panalal
 - Harendra scanned all historical records available in the Chapter archive and organized them on CD. The historical records from 1967 to 1977 and 1988 to 1997 are electronically documented. Anyone who knows the whereabouts of the missing records from 1978 to 1987 should contact him.
 - The write-ups present a significant amount of work. Joseph recommended that he holds an interview starting with the most recent past president (Sam Gillie/Marites Calad/Ross Tanaka) and work backwards.
 - December monthly meeting is designated as Past Presidents Night. Harendra was requested to contact them and invite them to attend. The Chapter will present them a CD of historical records for their perusal.
13. ASHRAE Technology (Energy) Award - Albert Hahn requested that the local firms submit short form applications for consideration.
14. Big Island ASHRAE Section - Joseph Ting reported that the seeds have been planted for the creation of a Big Island ASHRAE Section. Andre Hasselman with Kona Fabricators & Air Conditioning agreed to help organize the section. Ten ASHRAE member signatures together with an application must be submitted to Society by December to be approved in Chicago by January 2009.
15. Student Activities Committee - Paul Fukunaga
 - A Student Branch Career Fair will be held on Thursday October 23, 2008 at Holmes Hall, University of Hawaii at Manoa.
 - Local Consultants and Contractors will make presentations to students to give them a flavor of what career opportunities local companies have to offer engineering graduates.
 - Paul is organizing a field trip to visit the rooftop chiller serving UH Manoa's Holmes Hall. The field trip is scheduled for November 6, 2008. Paul is also organizing a field trip to visit the air conditioning system serving JABSOM. Actual date is pending further coordination of JABSOM staff.
 - There was some discussion regarding future scholarships sponsored by ASHRAE Hawaii Chapter. Tyson expressed that perhaps the Board should consider sponsoring trips to ASHRAE Society Winter Meetings in lieu of sponsoring monetary scholarships. The idea is that the trip helps to expose students to ASHRAE better than any monetary scholarship could. Patrick Yen, a recipient of a paid trip to the 2008 ASHRAE Society Winter Meeting in New York City, shared that the trip was very fulfilling. After some discussion, Albert proposed a motion to budget \$3,000 for students to attend the 2009 Meeting, Paul seconded, and the motion was unanimously approved.
16. Meeting adjourned at 1:00 PM.

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HAWAII CHAPTER OFFICERS BOG's & COMMITTEE CHAIRS

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